



STAINLESS STEEL VERTICAL MULTISTAGE PUMP

REAL
CHINA PUMP
CONSULTANCY

Flow up to 330m³/hr

High efficiency, MEI>=0.7

Corrosion resistance, longer life

Wide applications

Various connections

Compact design and small footprint

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Pump

VMS(C) is a multi-purpose pump suitable for a variety of different applications demanding reliable and cost-efficient supply.

VMS(C) handles a variety of liquids from potable water to industrial liquids within a very wide temperature, flow and pressure scale.

VMS(C) pump is a non-self-priming, vertical multistage centrifugal pump.

The pump consists of a base and a pump head. The chamber stack and the outer sleeve are secured between the pump head and the base by means of staybolts. The base has suction and discharge ports on the same level (in-line).

All pumps are equipped with a maintenance-free mechanical shaft seal.

Connection Type

- DIN Flange
- Thread
- Clamp
- Oval Flange

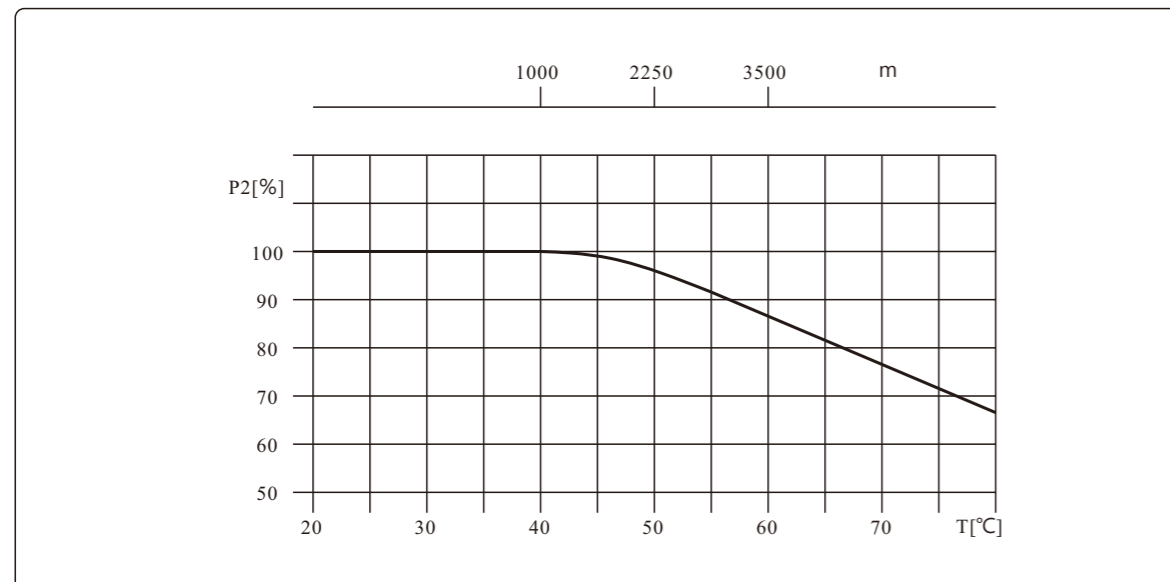
Material Constructions

- Cast iron
- St. St. (AISI304, AISI316)
- Duplex St. (2205)

Altitude and Ambient Temperature

If the ambient temperature exceeds the maximum temperature limits of the pump or the pump is installed at an altitude exceeding the altitude values in the chart below, the motor must not be fully loaded due to the risk of overheating.

Overheating may result from excessive ambient temperatures or the low density and consequently low cooling effect of the air at high altitudes. In such cases, it may be necessary to use a motor with a higher rated output (P2).



Motor

Totally enclosed, fan cooled, 2 pole standard IEC motor, available for continuous operation.

- IP Class: IP55
- Insulation Class: F
- Voltage: 3×220-240/380-415V
1×220-240V (only 0.37-2.2kW)

Liquid Temperature

- Normal temperature type: -15°C to 70°C
- Hot water type: -15°C to 120°C

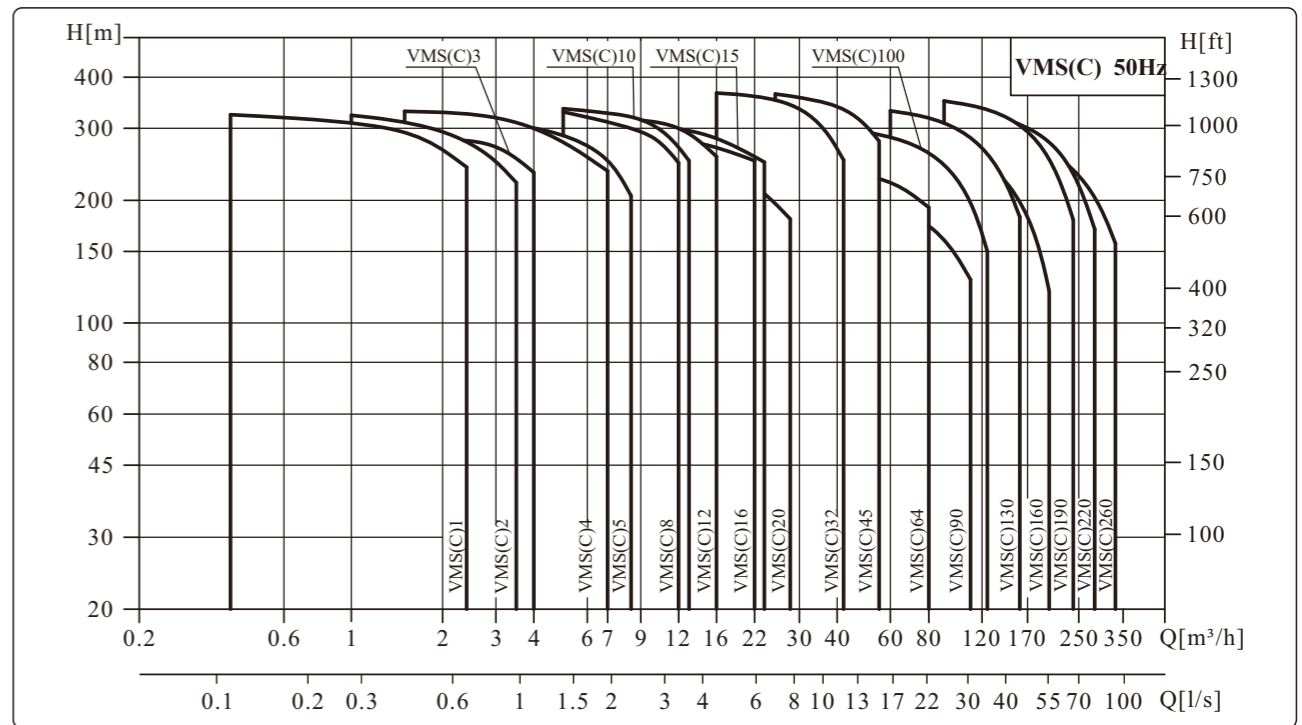
Curve

- All curves are based on the measured values of 50Hz; constant motor speed 2900rpm or 2950rpm.
- Curve tolerance in conformity with ISO9906:2012
- Test is done with 20°C air-free water, viscosity of 1mm²/sec.
- The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate

Operating Conditions

- Thin, clean, non-flammable, non-explosive, solid free, fiber free, physically and chemically water-like liquid.
- Ambient temperature: up to +40 °C
- Altitude: up to 1000m

Performance Range



Min Inlet Pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitation will occur. To avoid cavitation, a minimum pressure at the inlet side of the pump shall be guaranteed.

The maximum suction stroke can be calculated with following formula:

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

P_b = Barometric pressure in bar.

(Barometric pressure can be set to 1 bar).

In a closed system, P_b means system pressure [bar].

NPSH = Net Positive Suction Head [m].

(It can be read from the point of possible max. flow rate shown on NPSH curve.)

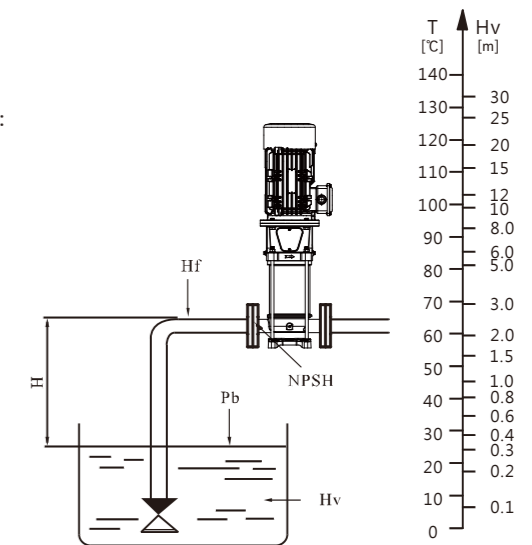
H_f = Pipe friction loss at the inlet [m].

H_v = Vapour pressure [m].

H_s = Safety margin = minimum 0.5 meters head.

If the "H" calculated is positive, the pump may run under the max. suction stroke H.

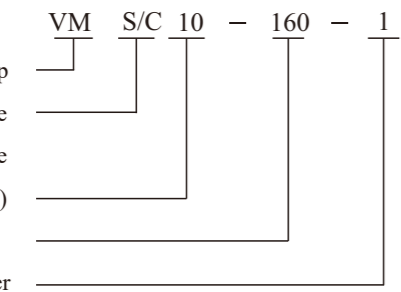
If the "H" calculated is negative, A head of minimum inlet pressure H is required.



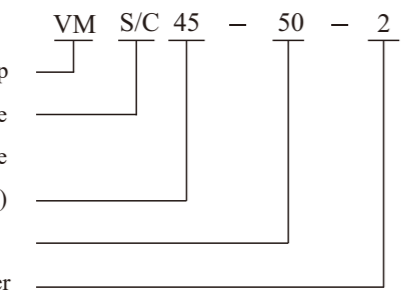
Check and ensure that the pump is not at cavitation condition

Model Definition

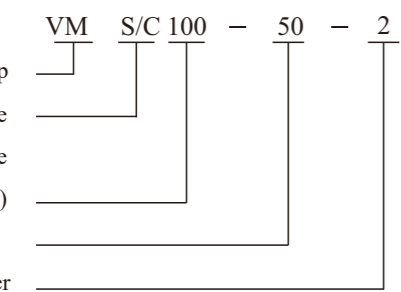
VMS(C)1/2/3/4/5/8/10/12/15/16/20



VMS(C) 32/45/64/90



VMS(C) 100/130/160/190/220/260



Applications

Water supply

- filtration and transfer at waterworks
- distribution from waterworks
- pressure boosting in mains
- pressure boosting in high-rise buildings, hotels, etc.
- pressure boosting for industrial water supply

Industry Pressure boosting in...

- process water systems
- washing and cleaning systems
- high-pressure washdown systems
- vehicle washing tunnels
- fire fighting systems

Liquid transfer in...

- cooling and air-conditioning systems (refrigerants)
- boiler feed and condensate systems
- machine tools (cooling lubricants)
- aquafarming

Transfer of...

- oils and alcohols
- acids and alkalis

Water treatment

- ultra-filtration systems
- reverse osmosis systems
- softening, ion exchange, demineralizing systems
- distillation systems
- separators
- swimming pools

Irrigation

- field irrigation (flooding)
- sprinkler irrigation
- drip-feed irrigation

Max. Working Pressure

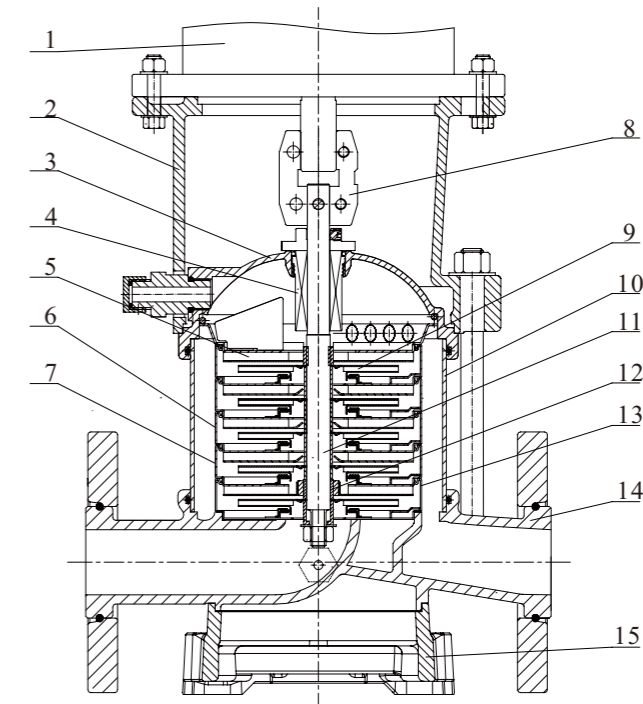
Model	Connection	Round Flange, Thread Pipe, Clamp	Oval Flange
		Max. Working Pressure (bar)	Max. Working Pressure (bar)
VMS(C)1		33	16
VMS(C)2		33	16
VMS(C)3		30	16
VMS(C)4		33	16
VMS(C)5		32	16
VMS(C)8		33	16
VMS(C)10		34	16
VMS(C)12		32	16
VMS(C)15		31	16
VMS(C)16		29	16
VMS(C)20		25	16
VMS(C)32-10-1 ~ 32-70		16	/
VMS(C)32-80-2 ~ 32-120		26	/
VMS(C)32-160-2 ~ 32-170		37	/
VMS(C)45-10-1 ~ 45-60		16	/
VMS(C)45-70-2 ~ 45-90		24	/
VMS(C)45-100-2 ~ 45-140-2		37	/
VMS(C)64-10-1 ~ 64-50		15	/
VMS(C)64-60-2 ~ 64-80		25	/
VMS(C)90-10-1 ~ 90-50-2		15	/
VMS(C)90-50 ~ 90-70-2		22	/
VMS(C)100		31	/
VMS(C)130		34	/
VMS(C)160		28	/
VMS(C)190		34	/
VMS(C)220		34	/
VMS(C)260		29	/

Product Description

Specs	VMS(C)1	VMS(C)2	VMS(C)3	VMS(C)4	VMS(C)5	VMS(C)8	VMS(C)10	VMS(C)12	VMS(C)15	VMS(C)16	VMS(C)20
Rated flow [m³/h]	1	2	3	4	5	8	10	12	15	16	20
Rated flow [l/s]	0.28	0.56	0.83	1.1	1.39	2.2	2.78	3.3	4.17	4.4	5.6
Flow range [m³/h]	0.4~2.4	1~3.5	1.2~4	1.5~6	2.5~8.5	5~12	5~13	7~16	8~23	8~22	10~28
Flow range [l/s]	0.11~0.66	0.28~0.97	0.33~1.1	0.42~1.63	0.69~2.36	1.39~3.3	1.39~3.61	1.9~4.4	2.22~6.39	2.2~6.1	2.8~7.8
Max. Pressure [bar]	33	33	30	33	32	33	34	32	31	29	25
Motor power [kW]	0.37~3	0.37~5.5	0.37~5.5	0.55~7.5	0.37~7.5	0.75~15	0.75~15	1.5~18.5	1.1~22	2.2~22	1.1~22
Temperature [°C]	-15~105										
Best effi. [%]	48	52	57	57	66	62	68	63	68	66	68
VMS Connection											
DIN Flange	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50
Thread Pipe	R ₁ 1 ¼"	R ₁ 1 ¼"	R ₁ 1 ¼"	R ₁ 1 ¼"	R ₁ 1 ¼"	R ₁ 2"	R ₁ 2"	R ₁ 2"	R ₁ 2"	R ₁ 2"	R ₁ 2"
Clamp	DN32	DN32	DN32	DN32	DN32	DN50	DN50	DN50	DN50	DN50	DN50
VMC Connection											
DIN Flange	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50
Oval Flange	R _p 1	R _p 1	R _p 1	R _p 1 ¼"	R _p 1 ¼"	R _p 1 ½"	R _p 1 ½"	R _p 1 ½"	R _p 1 ½"	R _p 1 ½"	R _p 1 ½"

Specs	VMS(C)32	VMS(C)45	VMS(C)64	VMS(C)90	VMS(C)100	VMS(C)130	VMS(C)160	VMS(C)190	VMS(C)220	VMS(C)260
Rated flow[m³ /h]	32	45	64	90	100	130	160	190	220	260
Rated flow[l/s]	8.9	12.5	17.8	25	27.78	36.11	44.44	52.78	61.11	72.22
Flow range[m³ /h]	16~42	25~55	30~80	50~110	50~125	60~160	80~200	90~240	105~282	125~330
Flow range[l/s]	4.4~11	6.9~15.3	8~22	14~30	14~34.7	16.7~44.4	22.2~55.6	25~66.7	29.2~78.3	34.7~91.7
Max. Pressure[bar]	37	37	25	22	31	34	28	34	34	29
Motor power[kW]	2.2~45	4~55	4~55	7.5~55	5.5~75	11~110	11~110	18.5~200	22~200	30~200
Temperature[°C]	-15~105									
Best effi.[%]	75	75	75	76	79	80	80	82	83	84
Connection										
DIN Flange	DN65	DN80	DN100	DN100	DN100	DN150	DN150	DN200	DN200	DN200

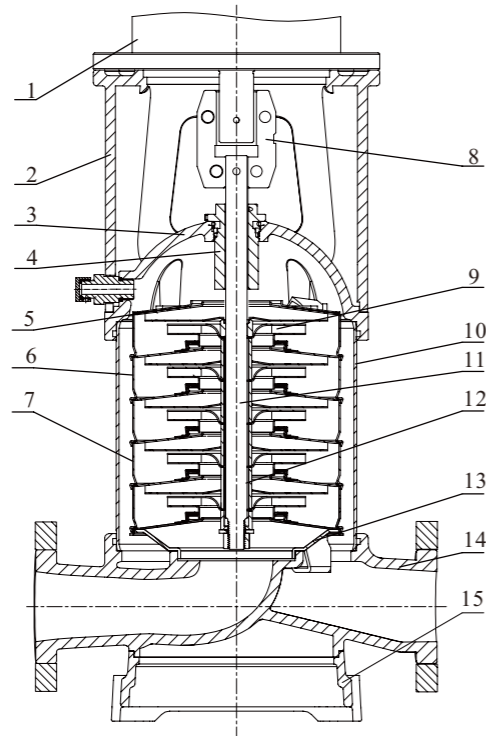
Structure VMS/VMC1,2,3,4,5



Material VMS/VMC1,2,3,4,5

No.	Part	Material		GB		EN DIN		AISI/ASTM	
		VMC	VMS	VMC	VMS	VMC	VMS	VMC	VMS
1	Motor	/	/	/	/	/	/	/	/
2	Stool	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
3	Seal housing	Ductile iron/ Stainless steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
4	Mech. seal	/	/	/	/	/	/	/	/
5	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Inducer	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
9	Impeller	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
10	Cylinder	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Shaft	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bearing	SiC/SiW		/		/		/	
13	Suction diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	In&Out chamber	Ductile iron		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
15	Baseplate	Ductile iron/ Stainless steel		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	

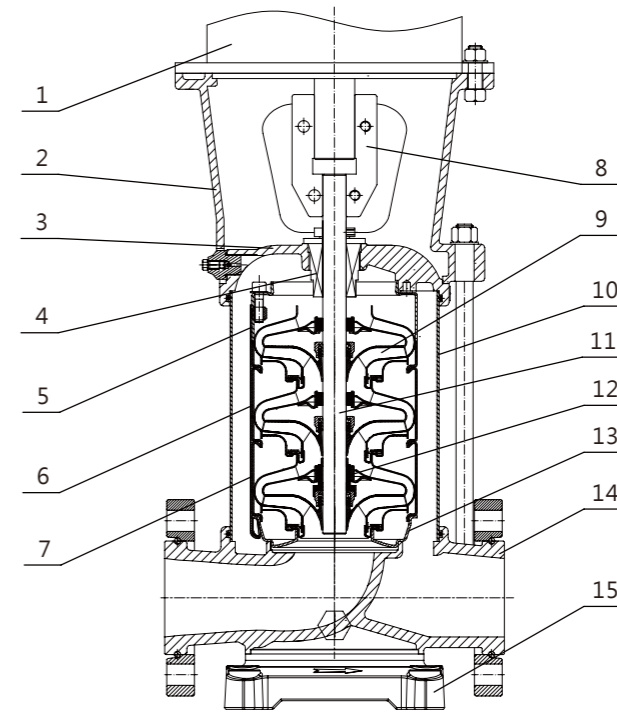
Structure VMS/VMC8,10,12,15,16,20



Material VMS/VMC8,10,12,15,16,20

No.	Part	Material		GB		EN DIN		AISI/ASTM	
		VMC	VMS	VMC	VMS	VMC	VMS	VMC	VMS
1	Motor	/	/	/	/	/	/	/	/
2	Stool	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
3	Seal housing	Ductile iron/ Stainless steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
4	Mech. seal	/	/	/	/	/	/	/	/
5	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Inducer	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
9	Impeller	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
10	Cylinder	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Shaft	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bearing	SiC/SiW		/		/		/	
13	Suction diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	In&Out chamber	Ductile iron		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
15	Baseplate	Ductile iron/ Stainless steel		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	

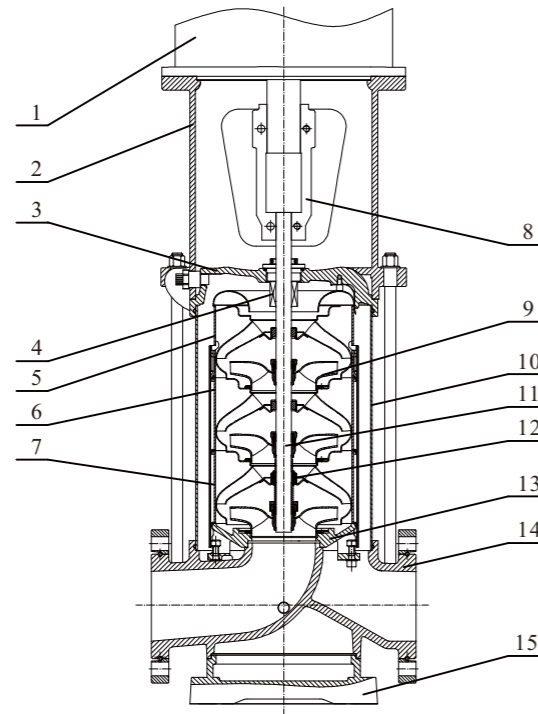
Structure VMS/VMC32,45,64,90



Material VMS/VMC32,45,64,90

No.	Part	Material		GB		EN DIN		AISI/ASTM	
		VMC	VMS	VMC	VMS	VMC	VMS	VMC	VMS
1	Motor	/	/	/	/	/	/	/	/
2	Stool	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
3	Seal housing	Ductile iron/ Stainless steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
4	Mech. seal	/	/	/	/	/	/	/	/
5	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Inducer	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
9	Impeller	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
10	Cylinder	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Shaft	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bearing	SiC/SiW		/		/		/	
13	Suction diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	In&Out chamber	Ductile iron		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
15	Baseplate	Ductile iron/ Stainless steel		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	

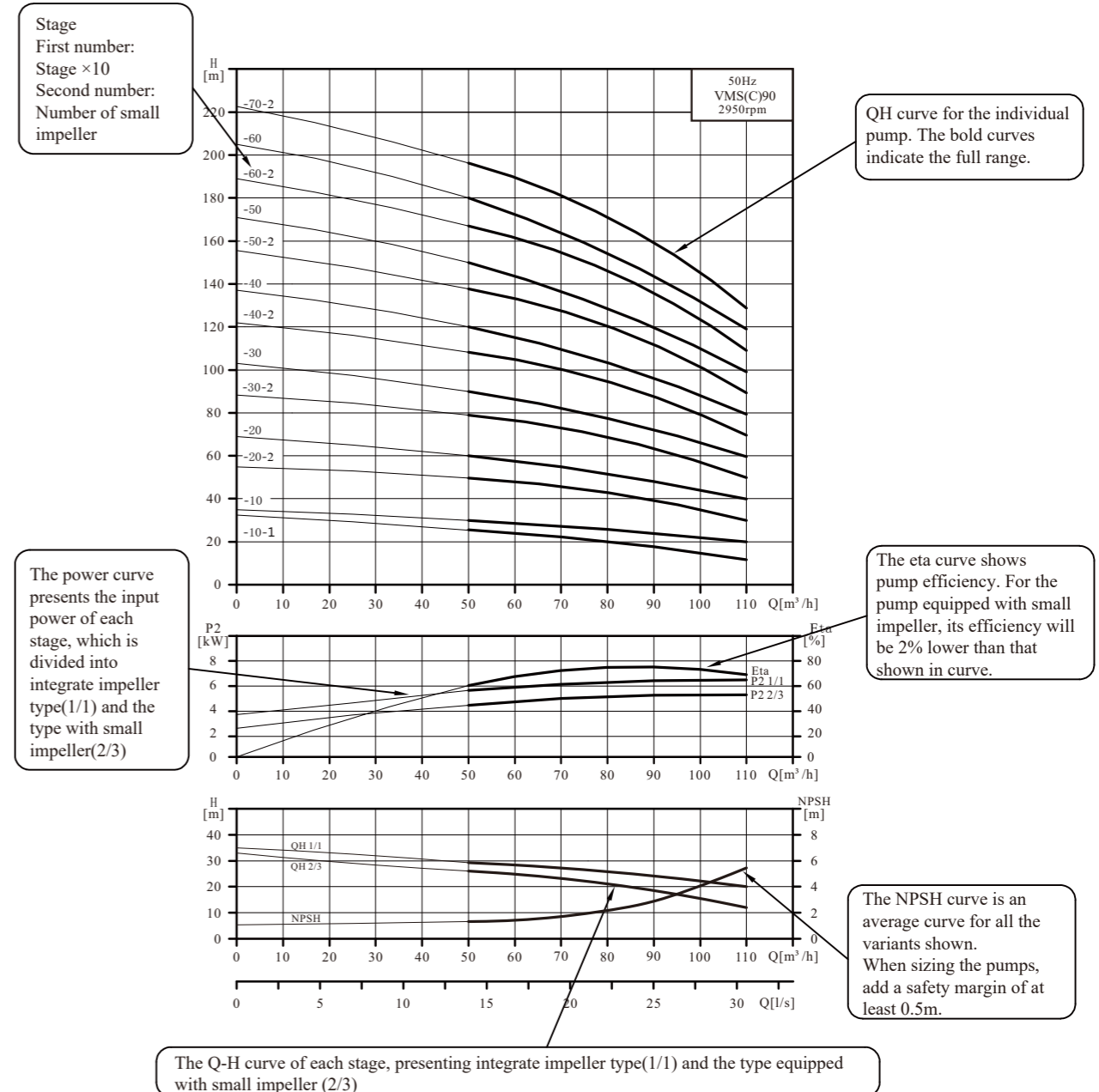
Structure VMS/VMC100,130,160,190,220,260



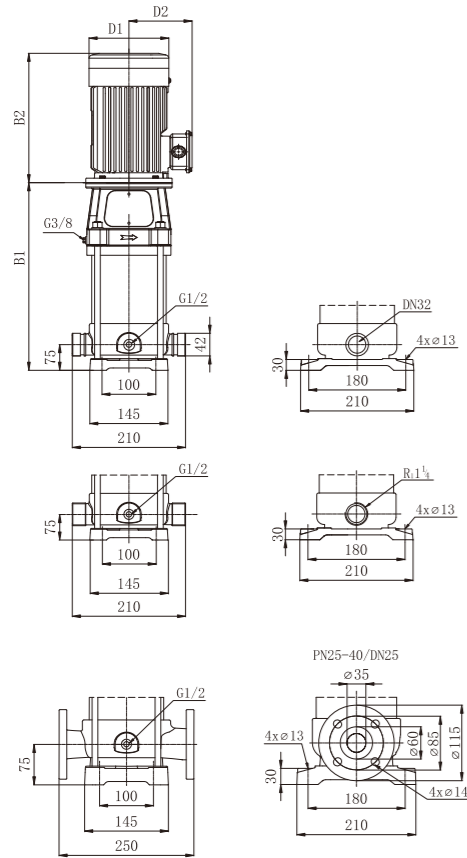
Material VMS/VMC100,130,160,190,220,260

No.	Part	Material		GB		EN DIN		AISI/ASTM	
		VMC	VMS	VMC	VMS	VMC	VMS	VMC	VMS
1	Motor	/		/		/		/	
2	Stool	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
3	Seal housing	Ductile iron/ Stainless steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
4	Mech. seal	/		/		/		/	
5	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Inducer	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	
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10	Cylinder	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Shaft	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bearing	SiC/SiW		/		/		/	
13	Suction diffuser	Stainless steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	In&Out chamber	Ductile iron		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA53665-45-12/ AISI304	
15	Baseplate	Ductile iron/ Stainless steel		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA53665-45-12	

Curve Illustration



Dimensions and Weights

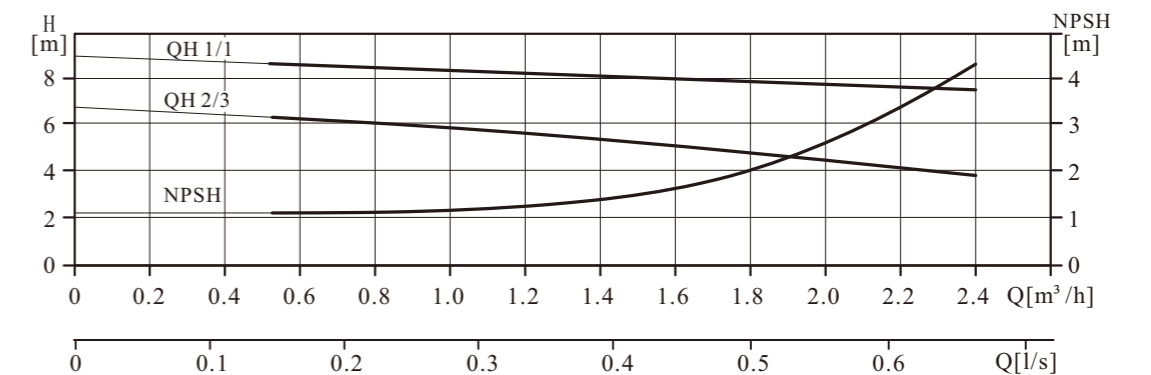
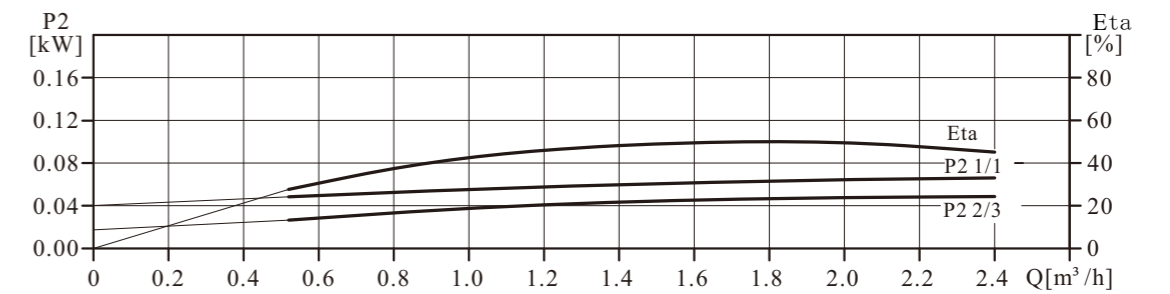
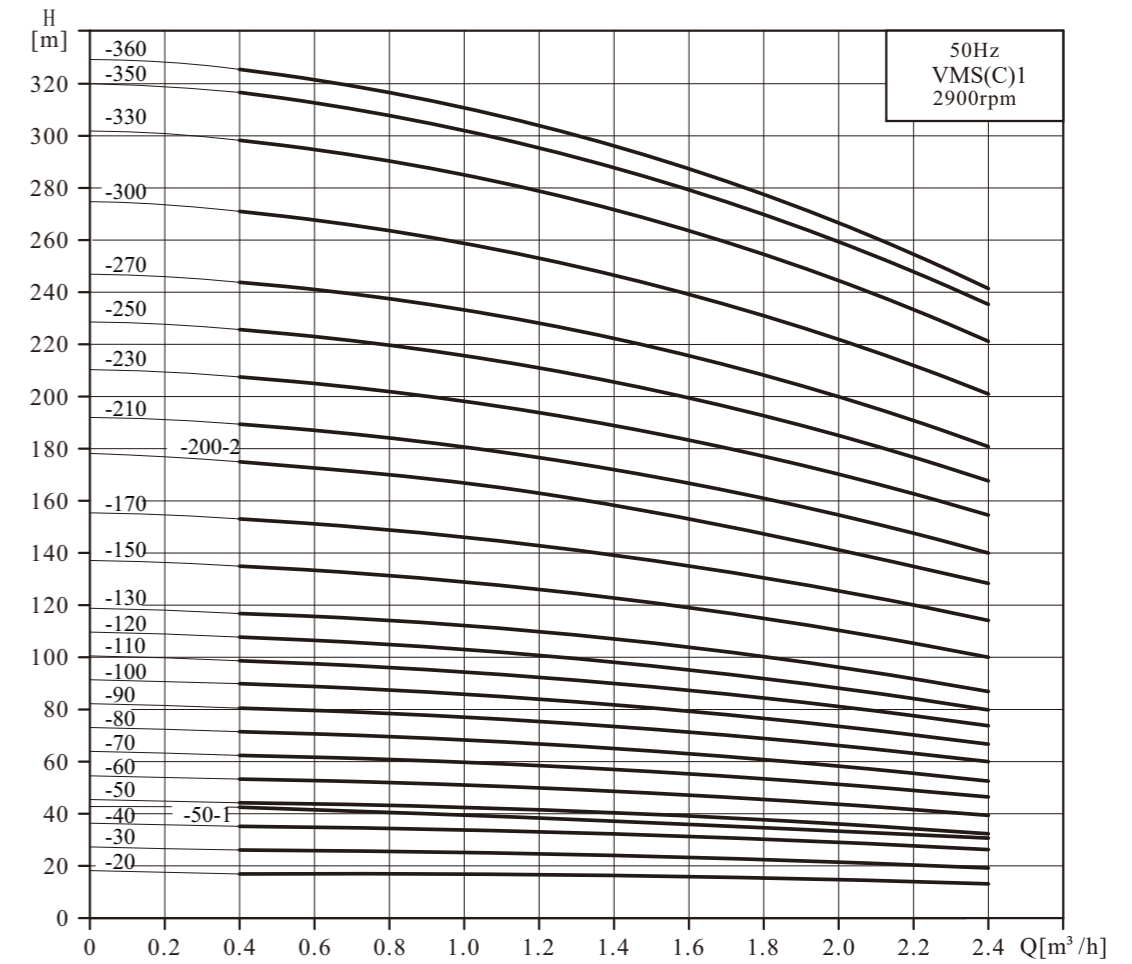


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
1-20	262	240	502	148	117	23
1-30	280	240	520	148	117	23
1-40	298	240	538	148	117	24
1-50-1	316	240	556	148	117	25
1-50	316	240	556	148	117	25
1-60	334	240	574	148	117	26
1-70	352	240	592	148	117	27
1-80	380	280	660	170	142	36
1-90	398	280	678	170	142	37
1-100	416	280	696	170	142	38
1-110	434	280	714	170	142	40
1-120	452	280	732	170	142	41
1-130	470	280	750	170	142	42
1-150	506	280	786	170	142	43
1-170	552	350	902	190	155	51
1-200-2	606	350	956	190	155	53
1-210	624	350	974	190	155	58
1-230	660	350	1010	190	155	59
1-250	696	350	1046	190	155	61
1-270	732	350	1082	190	155	62
1-300	786	350	1136	190	155	64
1-330	850	410	1260	196	165	73
1-350	886	410	1296	196	165	74
1-360	904	410	1314	196	165	75

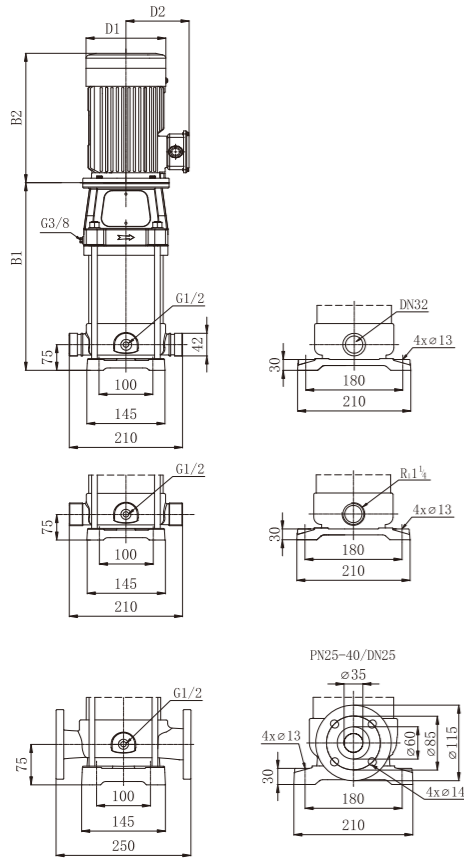
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)											
			0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2	2.2	2.4	
1-20	0.37		18	17.7	17.4	17	16.8	16.5	16	15.5	15	14	13	
1-30	0.37		27	26.7	26.4	26	25	24.5	24	23	22	21	20	
1-40	0.37		36	35.5	35	34	33.5	33	32	31	30	28	27	
1-50-1	0.37		43	42	41	39.5	39	38	37	36	34	33	31	
1-50	0.55		45	44.5	44	43	42	41	40	38.5	37	35	33.5	
1-60	0.55		54	53.5	53	51	50	49	48	46	44	42	40	
1-70	0.55		63	62.5	61.5	60	59	58	56	54	52	50	47	
1-80	0.75		72	71.5	70	69	67	66	64	62	59	57	54	
1-90	0.75		81	80	79	77	76	74	72	69	67	64	60	
1-100	0.75		90	89	88	86	84	82	80	77	74	71	67	
1-110	1.1		99	98	97	94	93	90	88	85	81	78	74	
1-120	1.1		108	107	105	103	101	99	96	93	89	85	80	
1-130	1.1		117	116	114	111	110	107	104	100	96	92	87	
1-150	1.1		135	134	132	129	126	123	120	116	111	106	100	
1-170	1.5		153	151.5	150	146	143	140	135	131	126	120	114	
1-200-2	1.5		175	173	170	167	163	158	153	148	142	136	128	
1-210	2.2		189	187.5	185	180	177	173	167	162	155	149	141	
1-230	2.2		207	205	202	197	194	189	183	177	170	163	154	
1-250	2.2		225	223	220	214	211	206	199	193	185	177	167	
1-270	2.2		243	241	238	231	227	222	215	208	200	191	181	
1-300	2.2		270	268	264	257	253	247	239	231	222	212	201	
1-330	3		297	295	290	283	278	271	263	255	244	234	221	
1-350	3		315	312	308	300	295	288	279	270	259	248	234	
1-360	3		324	321	317	309	303	296	287	278	266	255	241	

Curves



Dimensions and Weights



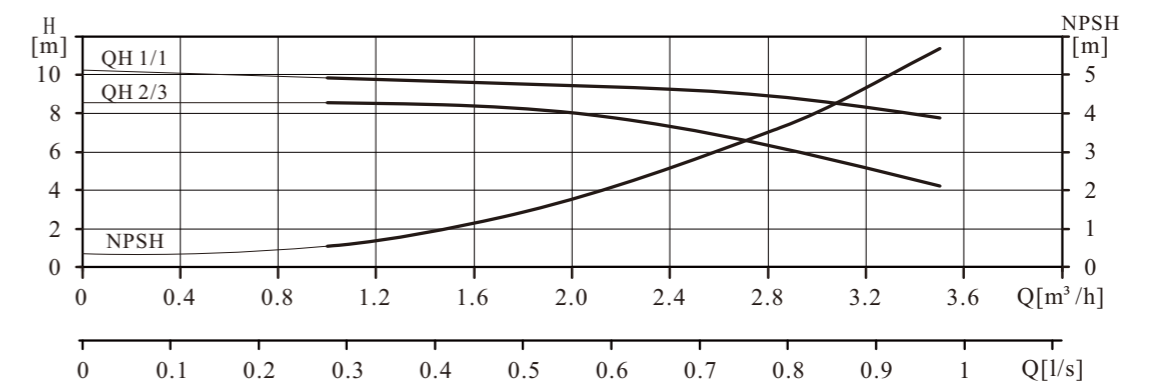
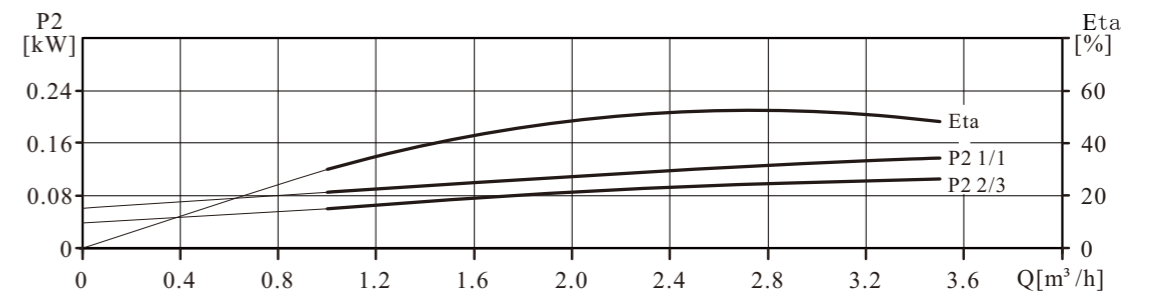
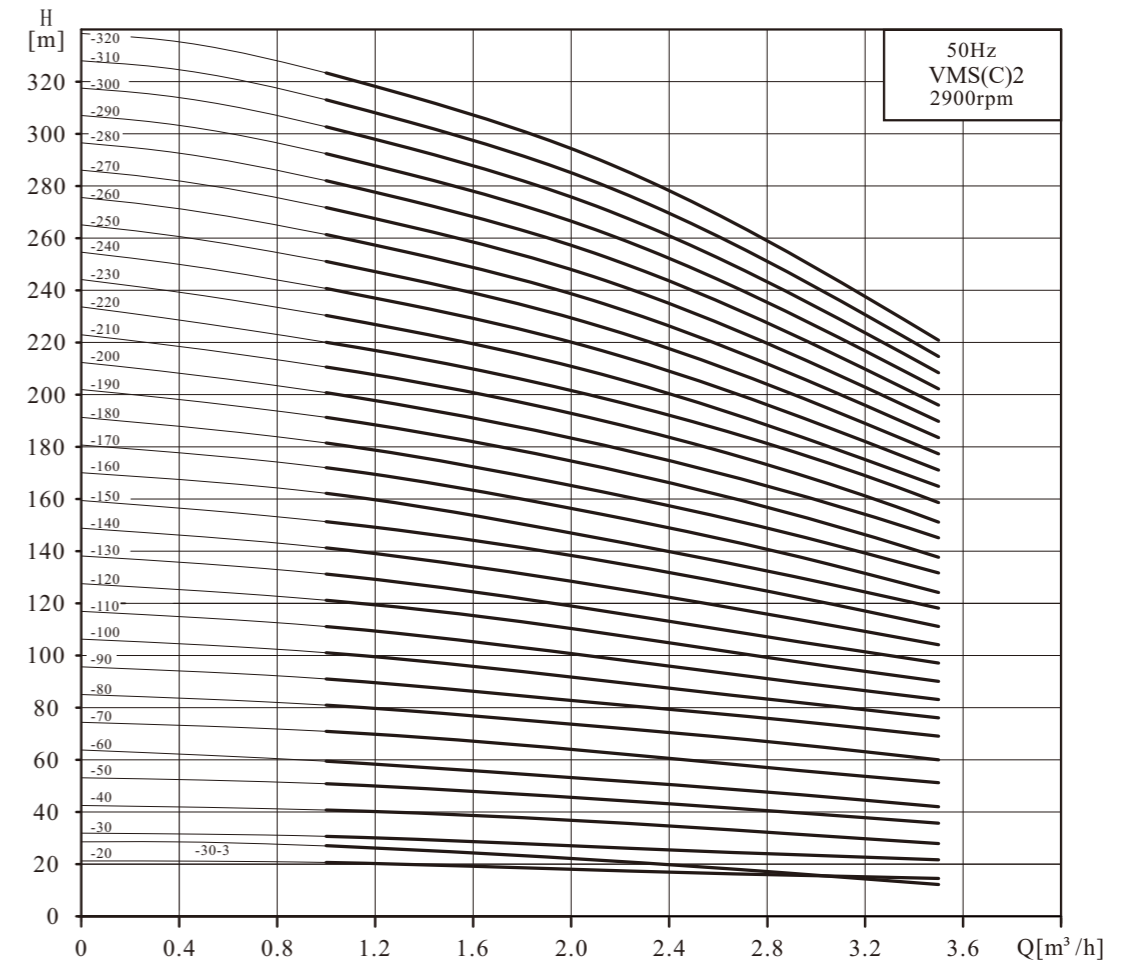
Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
2-20	262	240	502	148	117	23
2-30-3	280	240	520	148	117	23
2-30	280	240	520	148	117	25
2-40	298	240	538	148	117	25
2-50	326	280	606	170	142	35
2-60	344	280	624	170	142	35
2-70	362	280	642	170	142	38
2-80	380	280	660	170	142	39
2-90	398	280	678	170	142	39
2-100	426	350	776	190	155	47
2-110	444	350	794	190	155	47
2-120	462	350	812	190	155	48
2-130	480	350	830	190	155	53
2-140	498	350	848	190	155	53
2-150	516	350	866	190	155	54
2-160	534	350	884	190	155	55
2-170	552	350	902	190	155	55
2-180	570	350	920	190	155	56
2-190	598	410	1008	196	165	63
2-200	616	410	1026	196	165	64
2-210	634	410	1044	196	165	65
2-220	652	410	1062	196	165	65
2-230	670	410	1080	196	165	66
2-240	688	410	1098	230	185	76
2-250	706	410	1116	230	185	76
2-260	724	410	1134	230	185	77
2-270	742	410	1152	230	185	78
2-280	760	410	1170	230	185	79
2-290	778	410	1188	230	185	79
2-300	796	410	1206	230	185	80
2-310	834	465	1299	260	210	105
2-320	852	465	1317	260	210	105

Performance Range

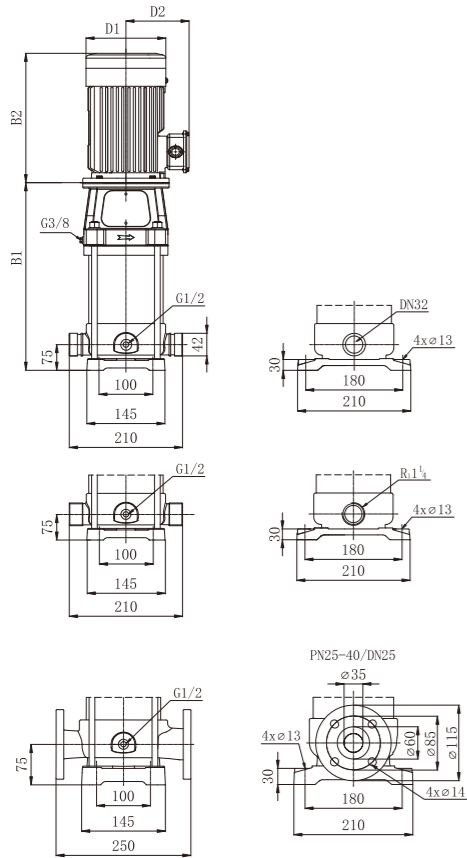
Model	Motor (kW)	Q (m³/h)	H (m)								
			1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5	
2-20	0.37		21	20	19	18	17	16	15	13	
2-30-3	0.37		27	26	24	22	20	18	15	12	
2-30	0.55		31	30	28	27	26	24	22	20	
2-40	0.55		41	40	38	37	35	32	30	27	
2-50	0.75		51	50	48	45	43	40	38	34	
2-60	0.75		59	57	54	52	48	44	40	35	
2-70	1.1		71	70	67	64	61	56	53	48	
2-80	1.1		81	80	77	74	70	65	61	55	
2-90	1.1		91	90	86	82	78	73	68	62	
2-100	1.5		101	100	96	92	87	81	76	69	
2-110	1.5		111	110	105	101	96	89	84	76	
2-120	1.5		121	120	115	111	105	97	91	83	
2-130	2.2		131	130	124	120	113	105	99	90	
2-140	2.2		141	140	134	129	122	113	107	97	
2-150	2.2		151	150	143	138	131	121	114	104	
2-160	2.2		162	160	153	148	140	130	122	111	

Model	Motor (kW)	Q (m³/h)	H (m)								
			1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5	
2-170	2.2		172	170	163	157	149	138	130	118	
2-180	2.2		181	180	172	165	157	146	137	124	
2-190	3		191	190	182	174	166	154	145	131	
2-200	3		201	200	191	183	174	162	152	138	
2-210	3		211	210	201	193	183	170	160	145	
2-220	3		221	220	210	202	192	178	167	152	
2-230	3		232	230	221	212	200	186	175	159	
2-240	4		242	240	230	221	209	194	182	166	
2-250	4		253	250	240	230	218	203	190	173	
2-260	4		263	260	250	239	226	211	198	179	
2-270	4		273	270	259	248	235	219	205	186	
2-280	4		283	280	269	258	244	227	213	193	
2-290	4		293	290	278	267	252	235	220	200	
2-300	4		303	300	288	276	261	243	228	207	
2-310	5.5		313	310	298	285	270	251	236	214	
2-320	5.5		323	320	307	294	278	259	243	221	

Curves



Dimensions and Weights

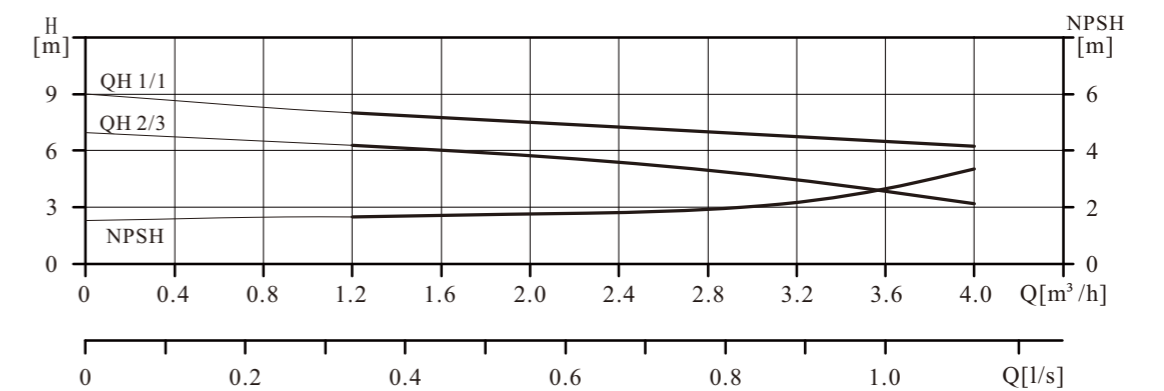
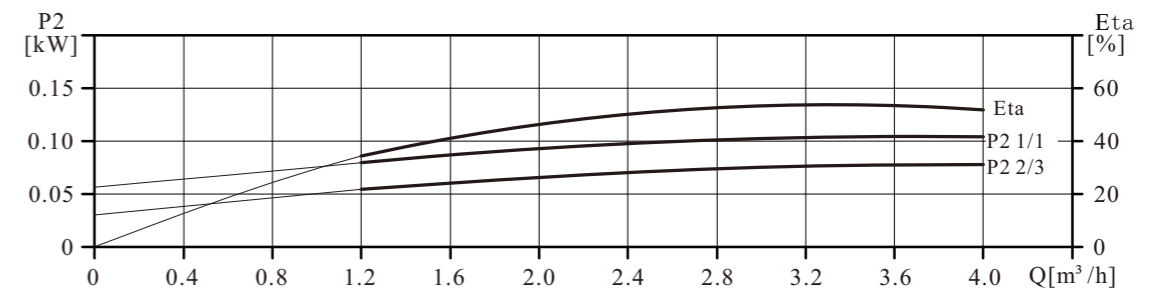
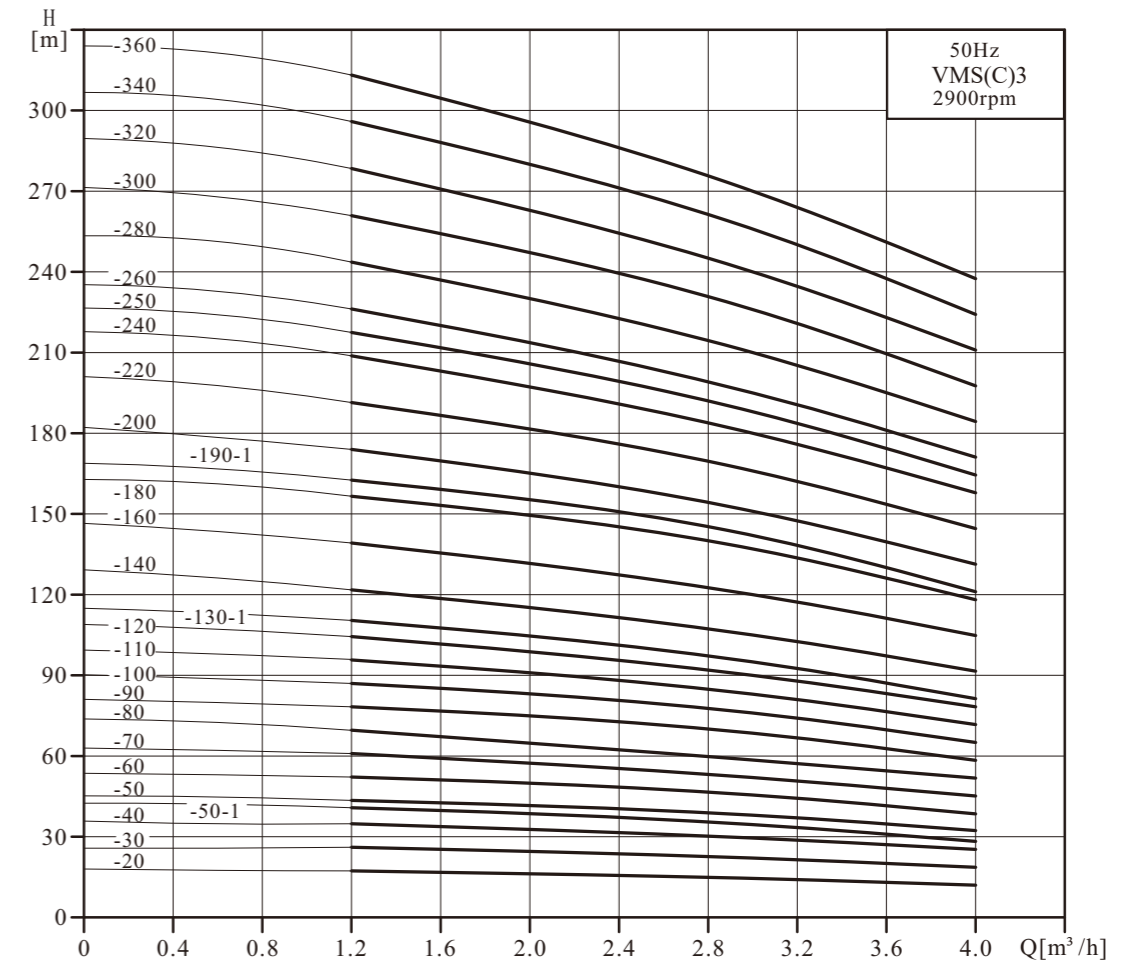


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
3-20	262	240	502	148	117	23
3-30	280	240	520	148	117	24
3-40	298	240	538	148	117	25
3-50-1	316	240	556	148	117	26
3-50	326	280	606	170	142	35
3-60	344	280	624	170	142	36
3-70	362	280	642	170	142	38
3-80	380	280	660	170	142	39
3-90	398	280	678	170	142	40
3-100	426	350	776	190	155	41
3-110	444	350	794	190	155	48
3-120	462	350	812	190	155	48
3-130-1	480	350	830	190	155	49
3-140	498	350	848	190	155	54
3-160	534	350	884	190	155	54
3-180	570	350	920	190	155	55
3-190-1	588	350	938	190	155	56
3-200	616	410	1026	196	165	63
3-220	652	410	1062	196	165	65
3-240	688	410	1098	196	165	66
3-250	706	410	1116	196	165	67
3-260	724	410	1134	230	185	77
3-280	760	410	1170	230	185	78
3-300	796	410	1206	230	185	79
3-320	832	410	1242	230	185	81
3-340	888	465	1353	260	210	106
3-360	924	465	1389	260	210	108

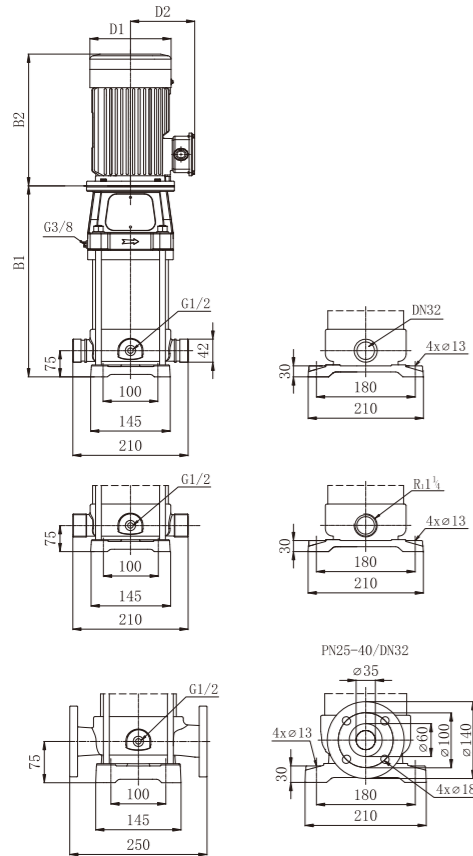
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)														
			1.2	1.6	2	2.4	2.8	3	3.2	3.6	4						
3-20	0.37		16	15.8	15.5	15.2	14.8	14.5	14	13.5	13						
3-30	0.37		24.5	24	23.5	23	22.5	22	21.5	20.5	19.5						
3-40	0.55		32	31.5	31	30.5	30	29.5	28.5	27.5	26						
3-50-1	0.55		41	40	38	36	35	34.5	33	31	28						
3-50	0.75		40	39.5	39	38	37	37	36	34	32.5						
3-60	0.75		48	47.5	47	45.5	44.5	44	43	41	39						
3-70	1.1		56	55	54.5	53	52	51.5	50	48	45.5						
3-80	1.1		64	63	62.5	60.5	59	58.5	57	54.5	52						
3-90	1.1		72	71	70	68	67	66	65	61	59						
3-100	1.5		80	79	78	76	74	74	72	68	65						
3-110	1.5		88	87	86	83	81	81	79	75	72						
3-120	1.5		96	95	94	91	89	88	86	82	78						
3-130-1	1.5		110	108	105	101	97	95	93	87	81						
3-140	2.2		113	110	110	106	103	103	100	95	91						
3-160	2.2		129	126	125	121	118	118	115	109	104						
3-180	2.2		145	142	141	136	133	132	129	123	117						
3-190-1	2.2		163	159	155	151	145	142	138	130	121						
3-200	3		161	158	157	152	148	147	143	136	130						
3-220	3		177	173	172	167	163	162	158	150	143						
3-240	3		193	189	188	182	177	177	172	164	156						
3-250	3		201	197	196	190	185	184	179	170	163						
3-260	4		209	205	204	197	192	191	186	177	169						
3-280	4		225	221	219	212	207	206	201	191	182						
3-300	4		241	236	235	227	222	221	215	205	195						
3-320	4		257	252	251	243	236	236	229	218	208						
3-340	5.5		273	268	266	258	251	250	244	232	221						
3-360	5.5		289	284	282	273	266	265	258	245	234						

Curves



Dimensions and Weights



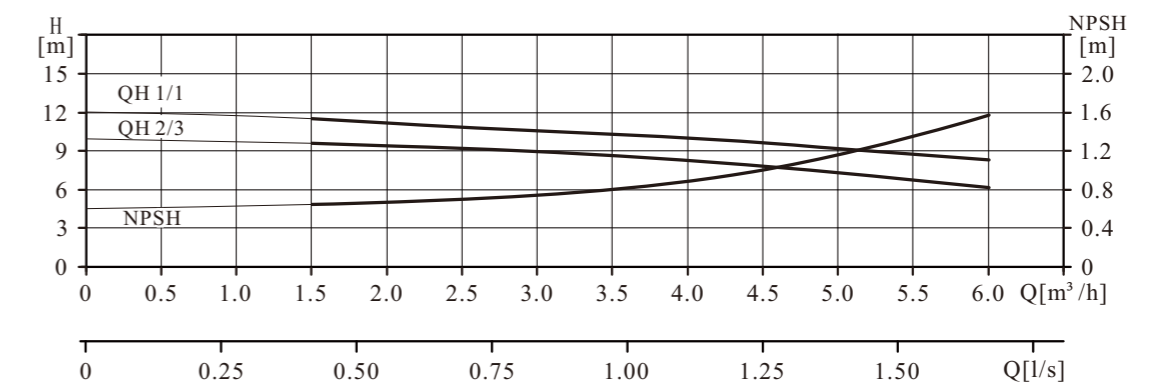
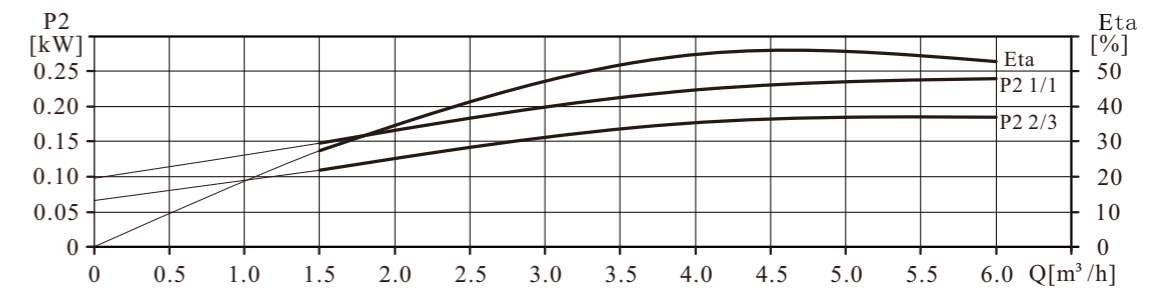
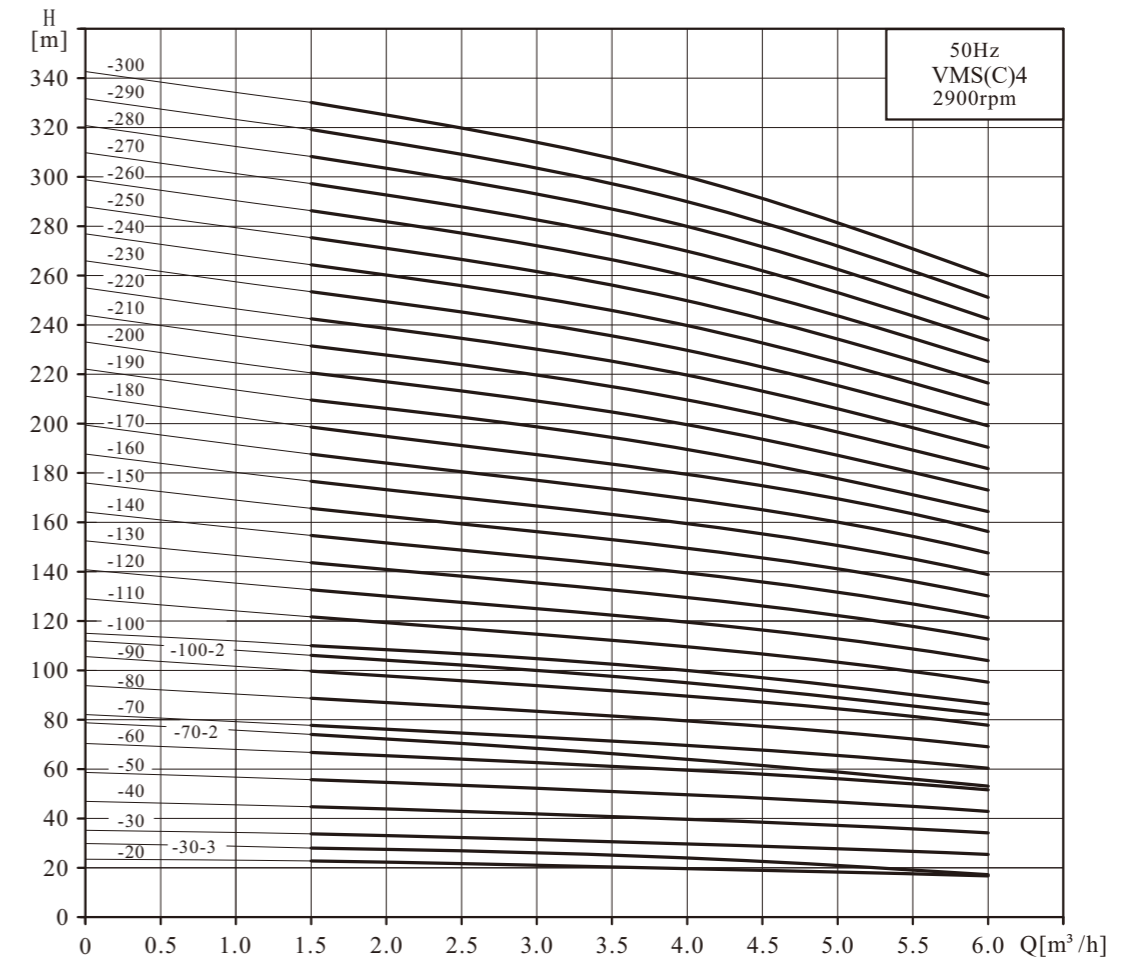
Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
4-20	280	240	520	148	117	24
4-30-3	307	240	547	148	117	25
4-30	317	280	597	170	142	34
4-40	344	280	624	170	142	37
4-50	371	280	651	170	142	37
4-60	408	350	758	190	155	45
4-70-2	435	350	785	190	155	45
4-70	435	350	785	190	155	50
4-80	462	350	812	190	155	51
4-90	489	350	839	190	155	51
4-100-2	516	350	866	190	155	52
4-100	526	410	936	196	165	59
4-110	553	410	963	196	165	60
4-120	580	410	990	196	165	61
4-130	607	410	1017	196	165	61
4-140	634	410	1044	230	185	71
4-150	661	410	1071	230	185	72
4-160	688	410	1098	230	185	72
4-170	715	410	1125	230	185	73
4-180	742	410	1152	230	185	74
4-190	789	465	1254	260	210	99
4-200	816	465	1281	260	210	99
4-210	843	465	1308	260	210	100
4-220	870	465	1335	260	210	101
4-230	897	465	1362	260	210	108
4-240	924	465	1389	260	210	109
4-250	951	465	1416	260	210	110
4-260	978	465	1443	260	210	110
4-270	1005	465	1470	260	210	111
4-280	1032	465	1497	260	210	112
4-290	1059	465	1524	260	210	113
4-300	1086	465	1551	260	210	113

Performance Range

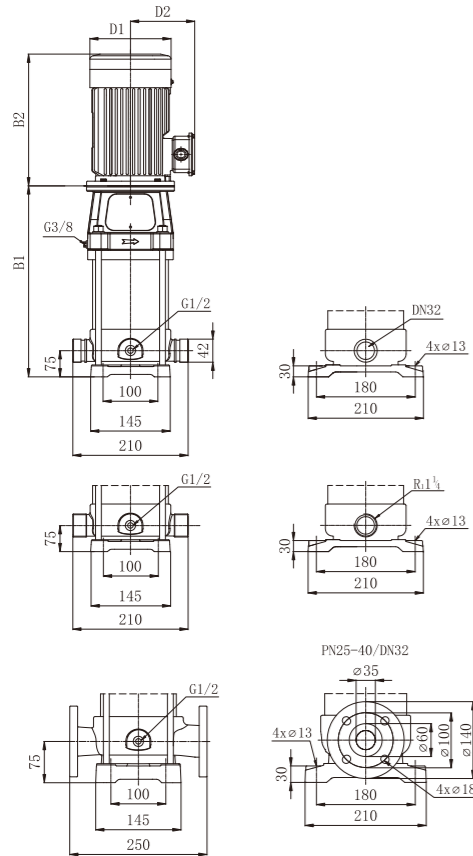
Model	Motor (kW)	Q (m³/h)	H (m)					
			1.5	2.0	3.0	4.0	5.0	6.0
4-20	0.55		23	22	21	20	18	17
4-30-3	0.55		28	27	26	24	20	18
4-30	0.75		33	32	31	30	28	26
4-40	1.1		44	43	41	40	38	35
4-50	1.1		55	54	52	50	47	44
4-60	1.5		66	65	62	60	56	53
4-70-2	1.5		74	72	68	64	59	53
4-70	2.2		77	75	73	70	66	61
4-80	2.2		88	86	83	80	75	70
4-90	2.2		98	97	93	90	85	79
4-100-2	2.2		106	104	100	95	90	84
4-100	3		110	108	104	100	95	88
4-110	3		121	119	114	110	104	97
4-120	3		132	130	125	120	113	106
4-130	3		143	140	135	130	123	114
4-140	4		154	152	145	140	132	123

Model	Motor (kW)	Q (m³/h)	H (m)					
			1.5	2.0	3.0	4.0	5.0	6.0
4-150	4		165	162	156	150	142	132
4-160	4		176	173	166	160	151	141
4-170	4		187	184	177	170	161	150
4-180	4		198	195	187	180	170	159
4-190	5.5		210	206	199	190	178	164
4-200	5.5		200	217	209	200	187	173
4-210	5.5		231	228	220	210	197	182
4-220	5.5		242	238	230	220	206	190
4-230	7.5		253	249	240	230	215	199
4-240	7.5		264	260	251	240	225	208
4-250	7.5		275	271	261	250	234	216
4-260	7.5		286	282	272	260	244	225
4-270	7.5		297	292	282	270	253	234
4-280	7.5		308	303	293	280	263	242
4-290	7.5		319	314	303	290	272	251
4-300	7.5		330	325	314	300	282	260

Curves



Dimensions and Weights

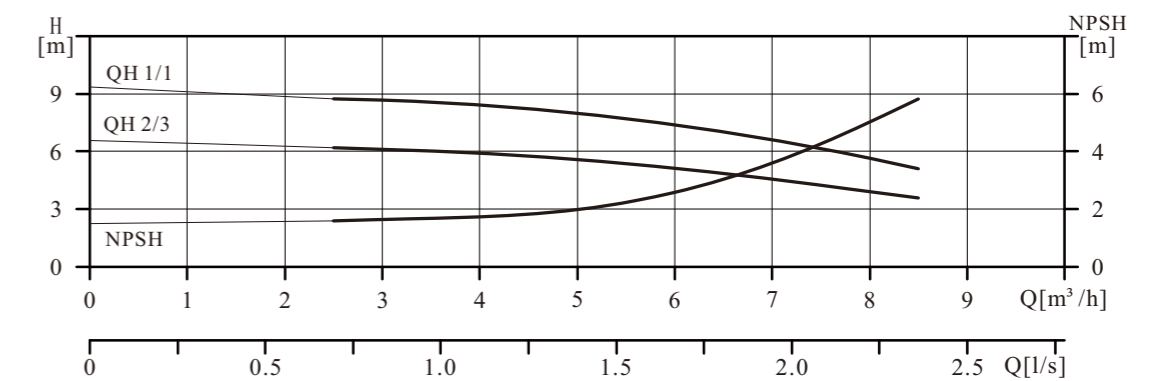
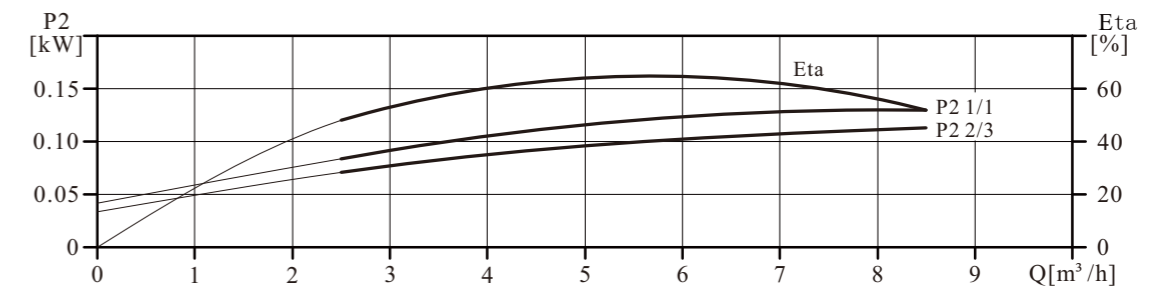
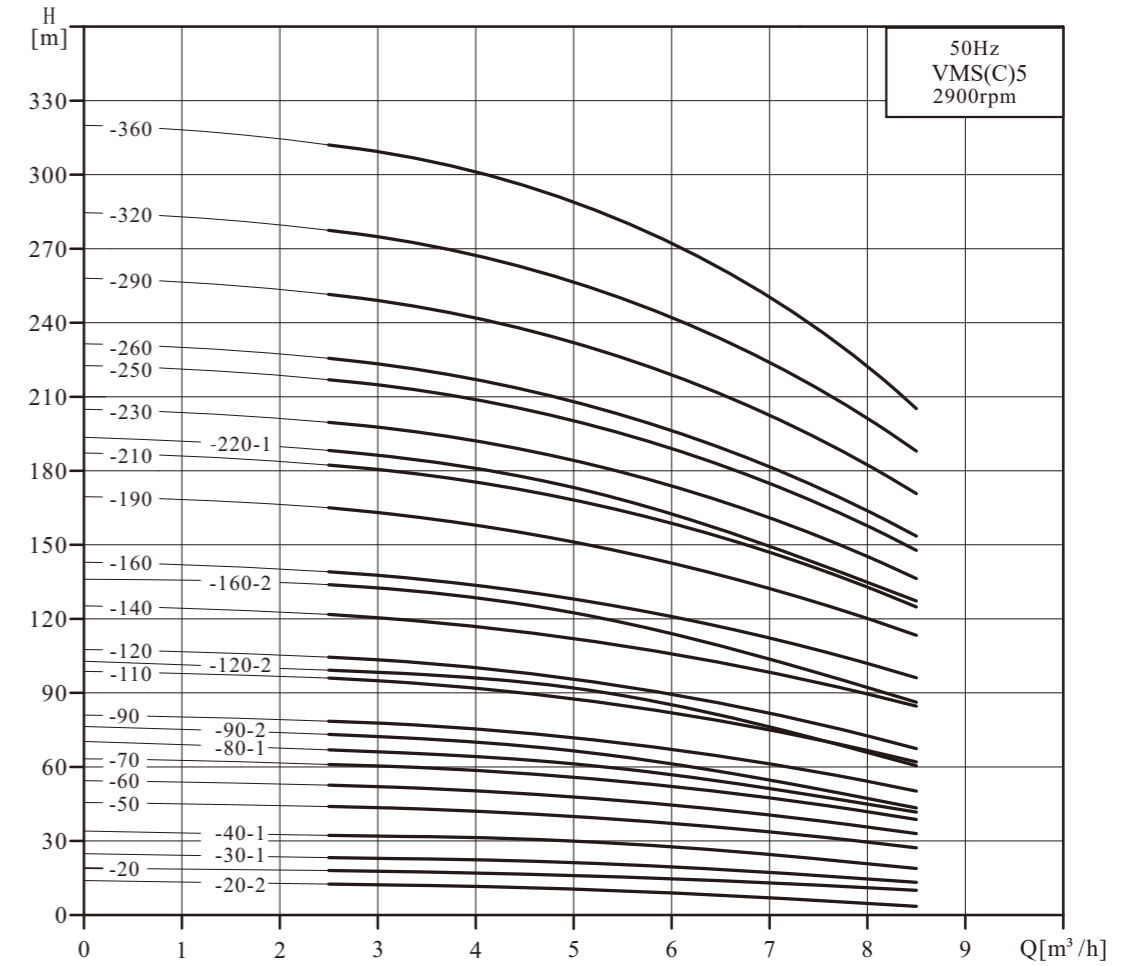


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
5-20-2	280	240	520	148	117	23
5-20	280	240	520	148	117	24
5-30-1	307	240	547	148	117	24
5-40-1	344	280	624	170	142	34
5-50	371	280	651	170	142	36
5-60	398	280	678	170	142	37
5-70	435	350	785	190	155	44
5-80-1	462	350	812	190	155	45
5-90-2	489	350	839	190	155	46
5-90	489	350	839	190	155	50
5-110	543	350	893	190	155	50
5-120-2	570	350	920	190	155	51
5-120	570	350	920	190	155	52
5-140	634	410	1044	196	165	59
5-160-2	688	410	1098	196	165	61
5-160	688	410	1098	196	165	61
5-190	769	410	1179	230	185	72
5-210	823	410	1233	230	185	74
5-220-1	850	410	1260	230	185	74
5-230	897	465	1362	260	210	99
5-250	951	465	1416	260	210	100
5-260	978	465	1443	260	210	101
5-290	1059	465	1524	260	210	110
5-320	1140	465	1605	260	210	112
5-360	1248	465	1713	260	210	115

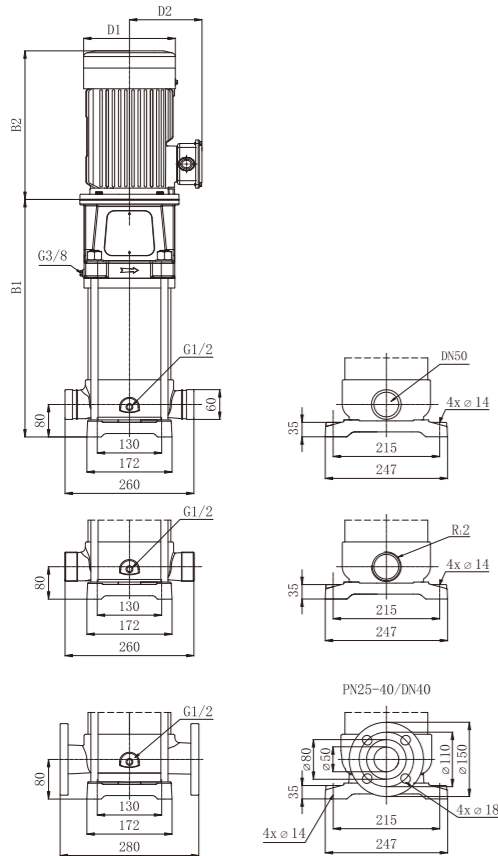
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)					
			2.5	4	5	6	7	8.5
5-20-2	0.37		12.5	11.5	10.5	9	7	3.5
5-20	0.55		17	16.5	16	15	14	12
5-30-1	0.55		23	22	21	20	17	13
5-40-1	0.75		32	31	30	27	24	19
5-50	1.1		43	42	40	38	35	29
5-60	1.1		52	50	48	45	42	34
5-70	1.5		61	59	56	53	49	40
5-80-1	1.5		67	64	61	57	52	42
5-90-2	1.5		73	70	67	62	56	43
5-90	2.2		78	75	72	68	62	51
5-110	2.2		95	92	88	83	76	63
5-120-2	2.2		99	95	92	85	76	61
5-120	2.2		104	101	96	91	83	68
5-140	3		121	117	112	106	97	80
5-160-2	3		134	129	123	115	104	83
5-160	3		139	134	128	121	111	91
5-190	4		165	159	152	143	132	108
5-210	4		182	176	168	159	146	120
5-220-1	4		188	182	173	163	149	121
5-230	5.5		199	193	184	174	160	131
5-250	5.5		217	210	200	189	174	143
5-260	5.5		225	218	208	196	181	148
5-290	7.5		251	243	232	219	201	165
5-320	7.5		277	268	256	242	222	182
5-360	7.5		312	302	288	272	250	205

Curves



Dimensions and Weights

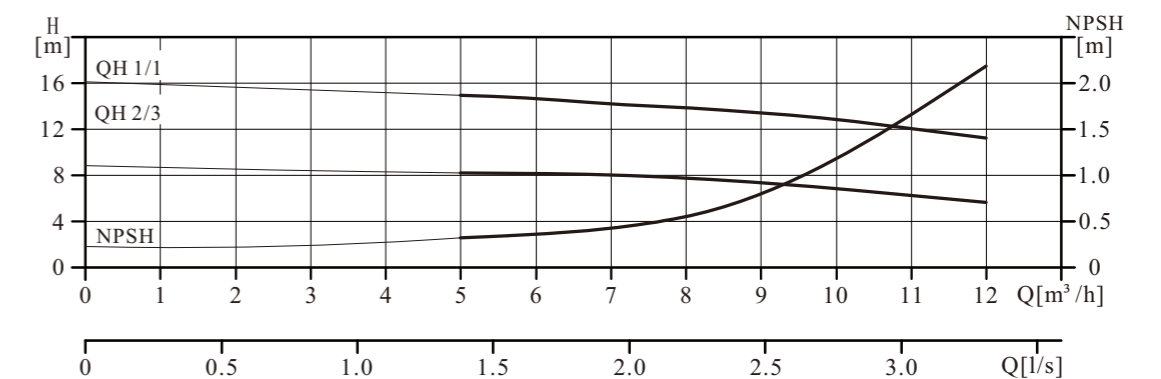
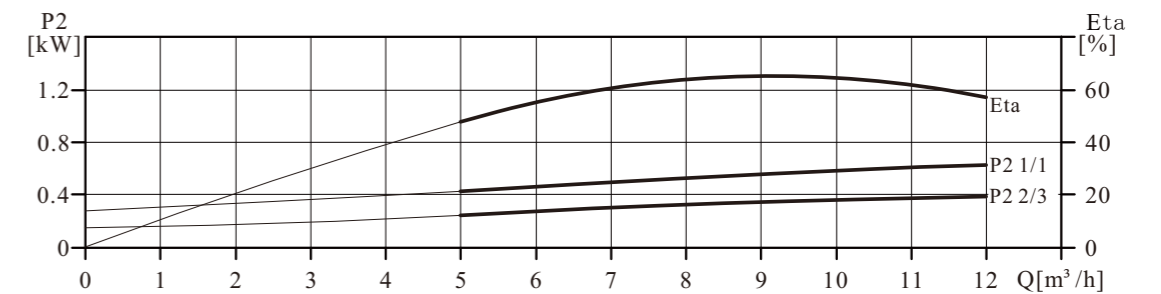
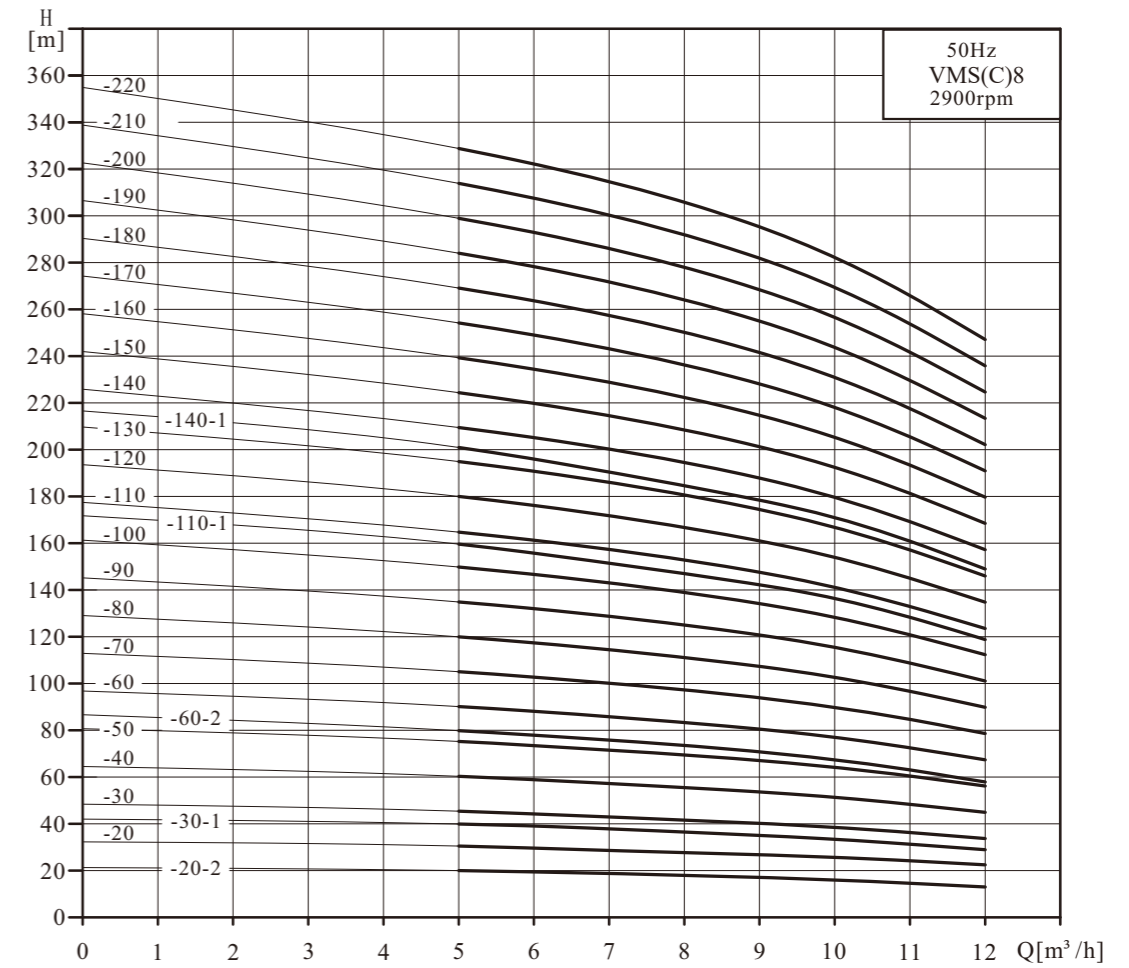


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
8-20-2	355	280	635	170	142	36
8-20	355	280	635	170	142	38
8-30-1	395	350	745	190	155	46
8-30	395	350	745	190	155	50
8-40	425	350	775	190	155	51
8-50	465	410	875	196	165	58
8-60-2	495	410	905	196	165	59
8-60	495	410	905	230	185	68
8-70	525	410	935	230	185	69
8-80	555	410	965	230	185	70
8-90	605	465	1070	260	210	96
8-100	635	465	1100	260	210	97
8-110-1	665	465	1130	260	210	98
8-110	665	465	1130	260	210	105
8-120	695	465	1160	260	210	106
8-130	725	465	1190	260	210	107
8-140-1	755	465	1220	260	210	108
8-140	844	610	1454	350	260	162
8-150	874	610	1484	350	260	163
8-160	904	610	1514	350	260	164
8-170	934	610	1544	350	260	165
8-180	964	610	1574	350	260	166
8-190	994	610	1604	350	260	174
8-200	1024	610	1634	350	260	175
8-210	1054	610	1664	350	260	176
8-220	1084	610	1694	350	260	177

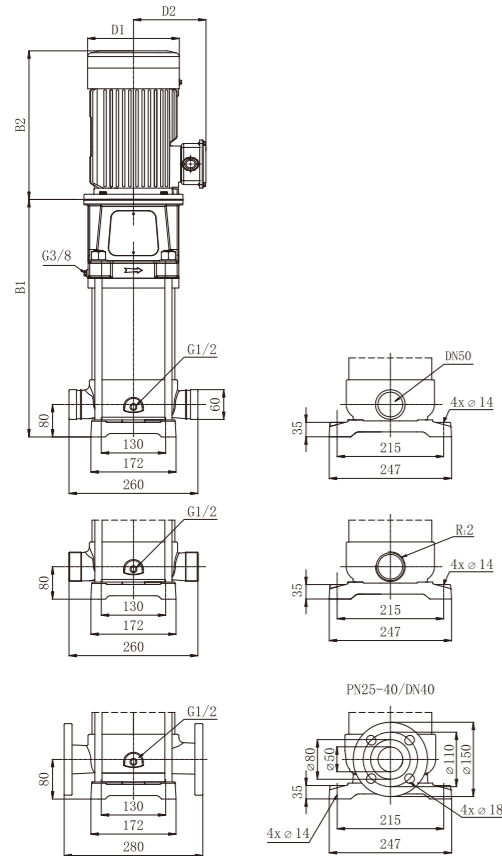
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)																	
			5	6	7	8	9	10	11	12										
8-20-2	0.75	H (m)	20	19.5	19	18	17	16	14	13										
8-20	1.1		30	29	28	27	26	25.5	24	22										
8-30-1	1.5		40	39	38	36	35	34	31	29										
8-30	2.2		45	44	42.5	41	40.5	38.5	36	34										
8-40	2.2		60	58.5	56.5	55	54	51	48	45										
8-50	3		75	73	71	68	68	64	60	56										
8-60-2	3		80	78	76	73	71	67	62	58										
8-60	4		90	88	85	82	81	77	72	67										
8-70	4		105	103	99	96	95	90	84	79										
8-80	4		120	117	113	110	108	103	96	90										
8-90	5.5		135	132	127	124	122	116	108	101										
8-100	5.5		150	147	142	137	135	128	121	112										
8-110-1	5.5		160	156	151	147	144	136	128	119										
8-110	7.5		165	161	156	151	149	141	133	124										
8-120	7.5		180	176	170	165	162	154	145	135										
8-130	7.5		195	191	184	179	176	167	157	146										
8-140-1	7.5		201	196	190	185	180	171	160	149										
8-140	11		210	205	198	193	189	180	169	157										
8-150	11		224	220	212	206	203	193	181	168										
8-160	11		239	235	226	220	216	205	193	180										
8-170	11	254	249	241	234	230	218	205	191											
8-180	11	269	264	255	248	244	231	217	202											
8-190	15	284	279	269	262	257	244	229	213											
8-200	15	299	294	283	276	271	257	241	224											
8-210	15	314	309	297	287	284	270	253	235											
8-220	15	329	324	311	300	297	283	265	246											

Curves



Dimensions and Weights

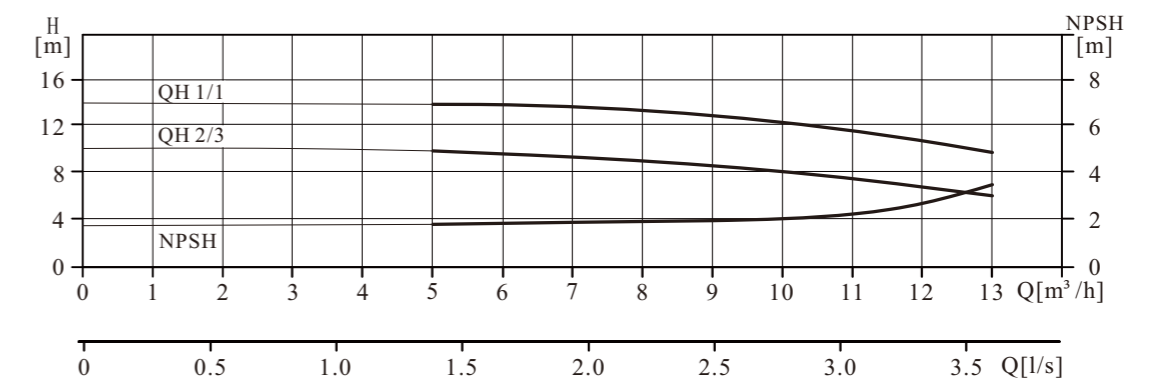
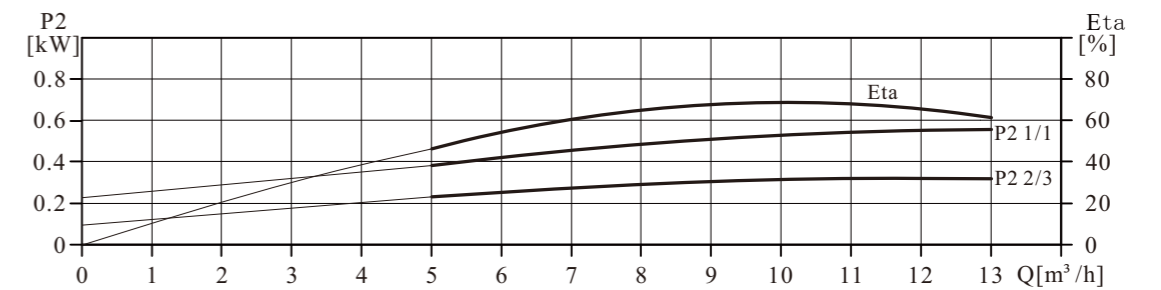
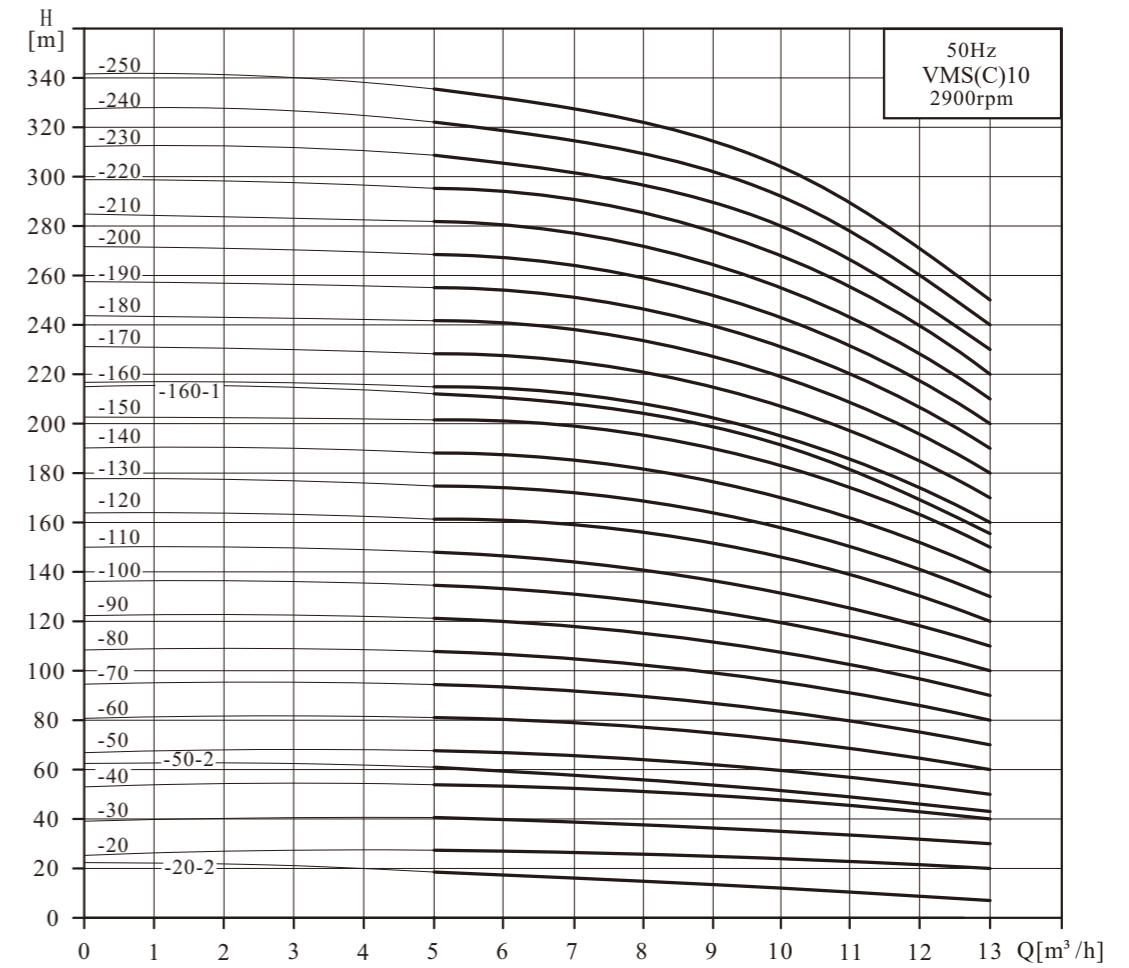


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
10-20-2	355	280	635	170	142	37
10-20	355	280	635	170	142	39
10-30	395	350	745	170	142	47
10-40	425	350	775	190	155	52
10-50-2	455	350	805	190	155	53
10-50	465	410	875	196	165	59
10-60	495	410	905	196	165	60
10-70	525	410	935	230	185	70
10-80	555	410	965	230	185	71
10-90	605	465	1070	260	210	98
10-100	635	465	1100	260	210	99
10-110	665	465	1130	260	210	100
10-120	695	465	1160	260	210	108
10-130	725	465	1190	260	210	109
10-140	755	465	1220	260	210	110
10-150	785	465	1250	260	210	111
10-160-1	815	465	1280	260	210	112
10-160	904	610	1514	350	260	167
10-170	934	610	1544	350	260	168
10-180	964	610	1574	350	260	169
10-190	994	610	1604	350	260	170
10-200	1024	610	1634	350	260	171
10-210	1054	610	1664	350	260	173
10-220	1084	610	1694	350	260	181
10-230	1114	610	1724	350	260	182
10-240	1144	610	1754	350	260	183
10-250	1174	610	1784	350	260	184

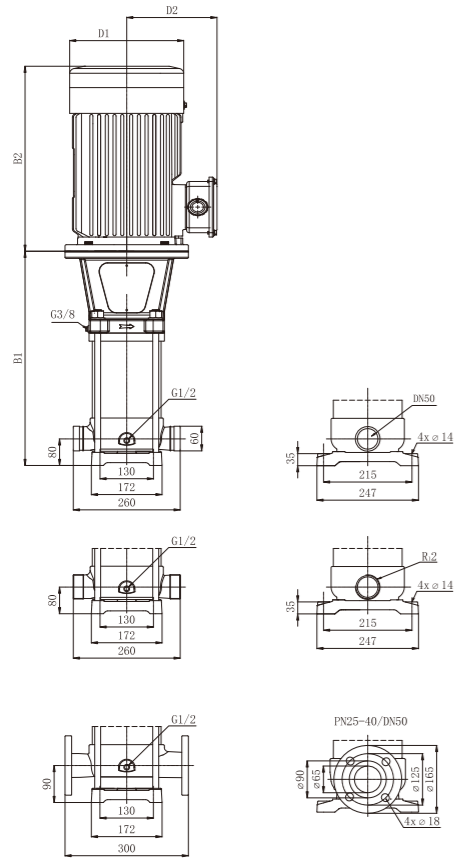
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)																		
			5	6	7	8	9	10	11	12	13										
10-20-2	0.75		18.5	17	16	14	13	12	10	8.5	7										
10-20	1.1		28	27	26	25.5	25	24	23	22	20										
10-30	1.5		41	40	39.5	38	37	35	34	32	30										
10-40	2.2		55	53	52	51	49.5	48	46	43	40										
10-50-2	2.2		61	59	58	56	54	51.5	49	47	43										
10-50	3		68	67	66	64	62	60	57	54	50										
10-60	3		82	79	78	77	74	72	69	65	60										
10-70	4		96	93	92	90	87	84	80	75	70										
10-80	4		109	107	105	103	99	96	91	86	80										
10-90	5.5		123	120	118	115	111	108	103	97	90										
10-100	5.5		137	134	131	128	124	120	114	108	100										
10-110	5.5		150	147	144	141	136	132	126	118	110										
10-120	7.5		164	160	157	154	149	144	137	129	120										
10-130	7.5		177	174	170	167	161	156	149	140	130										
10-140	7.5		191	187	183	179	173	168	160	151	140										
10-150	7.5		205	200	197	192	186	180	171	162	150										
10-160-1	7.5		214	208	205	199	192	186	176	166	153										
10-160	11		218	214	210	205	198	192	183	172	160										
10-170	11		232	227	223	218	210	204	194	183	170										
10-180	11		246	240	236	231	223	216	206	194	180										
10-190	11		259	254	249	244	235	228	217	205	190										
10-200	11		273	267	262	256	248	240	229	215	200										
10-210	11		287	280	275	269	260	252	240	226	210										
10-220	15		300	294	288	282	272	264	251	237	220										
10-230	15		309	305	301	297	290	280	266	249	230										
10-240	15		322	319	314	309	302	292	278	260	240										
10-250	15		335	332	327	322	314	304	289	271	250										

Curves



Dimensions and Weights

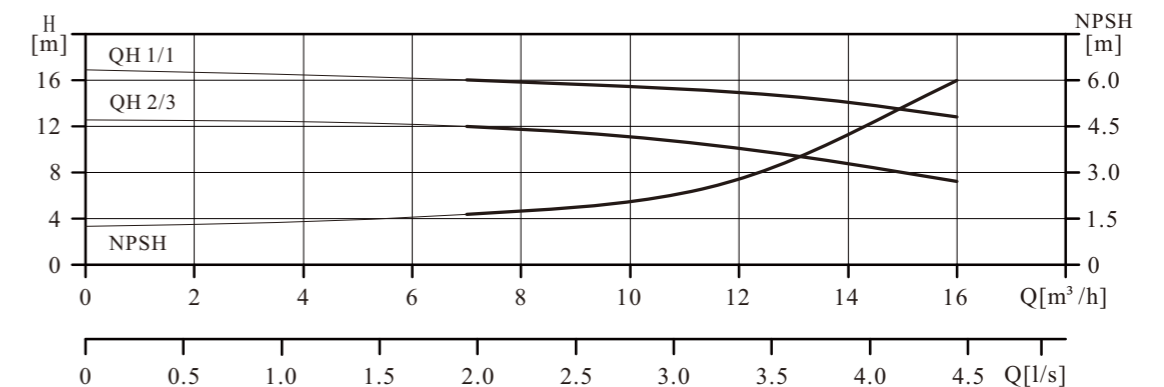
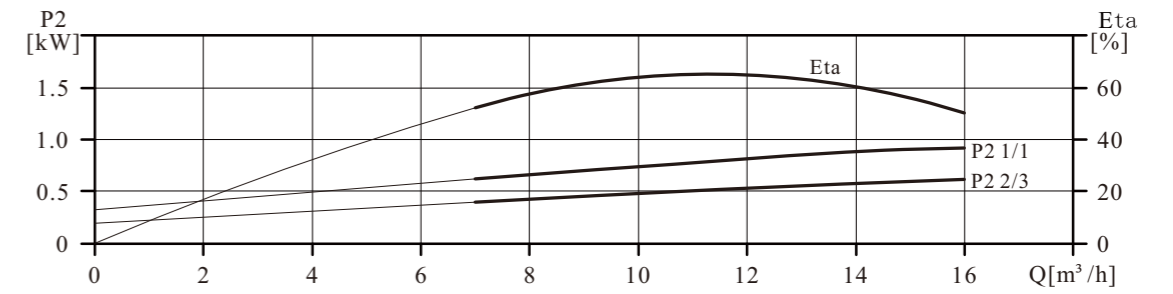
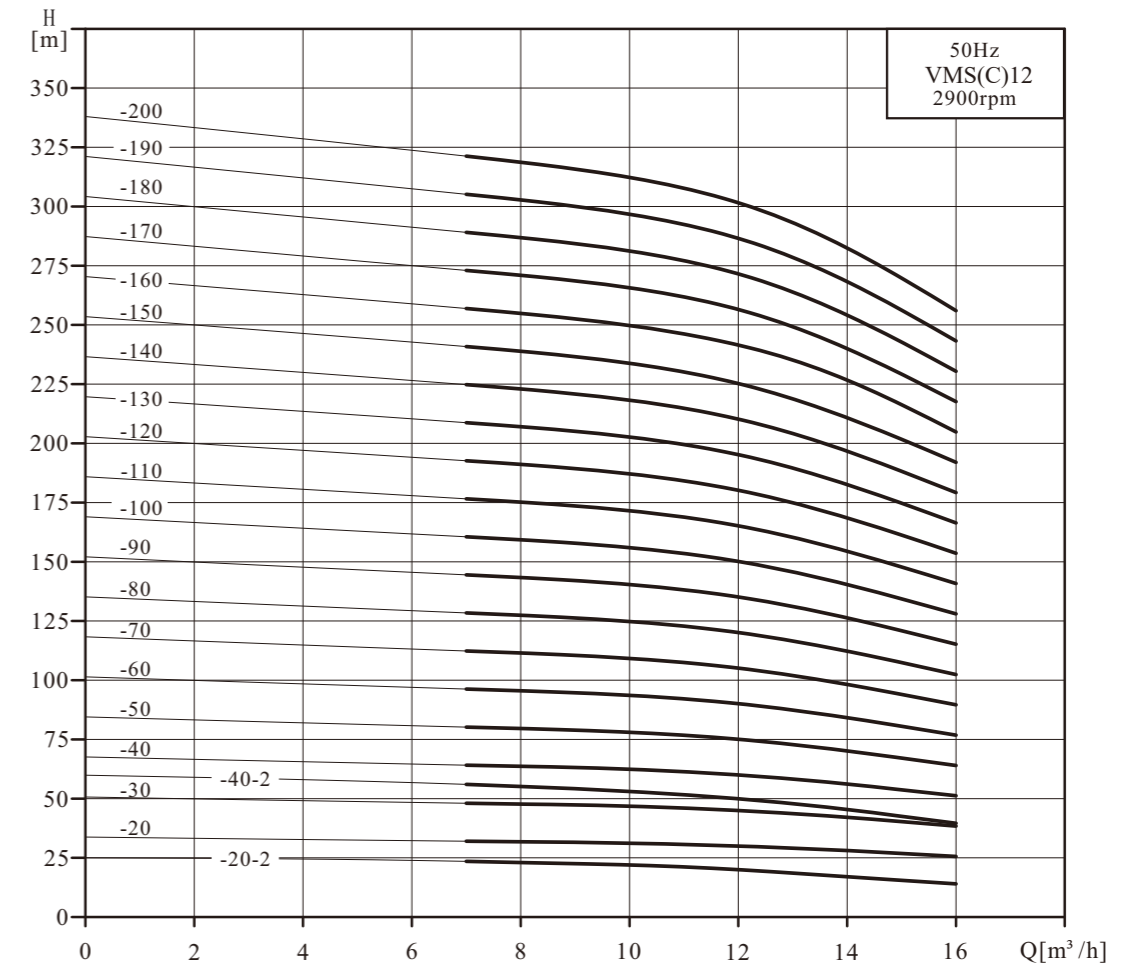


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
12-20-2	365	350	715	190	155	47
12-20	365	350	715	190	155	51
12-30	405	410	815	196	165	58
12-40-2	435	410	845	196	165	59
12-40	435	410	845	230	185	68
12-50	485	465	950	260	210	94
12-60	515	465	980	260	210	95
12-70	545	465	1010	260	210	103
12-80	575	465	1040	260	210	104
12-90	694	610	1304	350	260	159
12-100	724	610	1334	350	260	160
12-110	754	610	1364	350	260	161
12-120	784	610	1394	350	260	163
12-130	814	610	1424	350	260	171
12-140	844	610	1454	350	260	172
12-150	874	610	1484	350	260	173
12-160	904	610	1514	350	260	174
12-170	934	610	1544	350	260	175
12-180	964	640	1604	350	260	198
12-190	994	640	1634	350	260	199
12-200	1024	640	1664	350	260	200

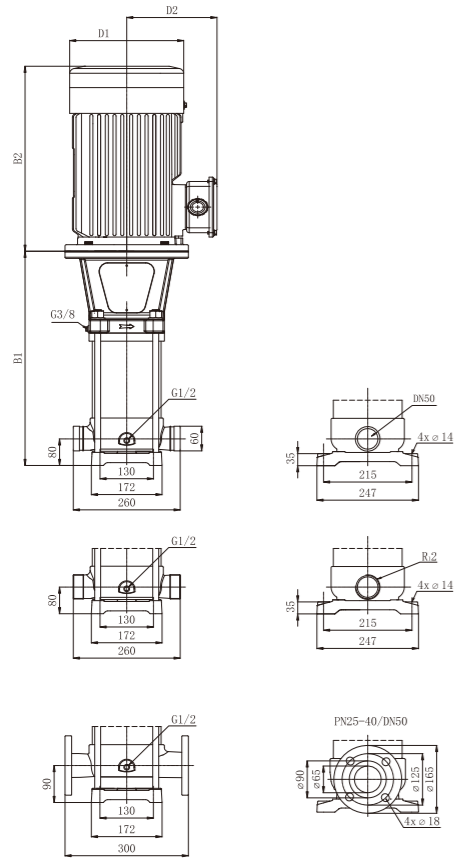
Performance Range

Model	Motor Power (kW)	Q (m ³ /h)	H (m)											
			7	8	9	10	11	12	13	14	15	16		
12-20-2	1.5		24	23	23	22	21	20	19	17	16	14		
12-20	2.2		32.5	32	31.5	31	30.5	30	29	28	27	26		
12-30	3		48	47.5	47	46.5	46	45	44	42	41	38		
12-40-2	3		56	55	54	53	52	50	48	45	43	40		
12-40	4		64	63.5	63	62	61	60	59	56	54	51		
12-50	5.5		80	79.5	79	78	77	75	74	71	68	64		
12-60	5.5		96	95	94	93	92	90	88	85	81	77		
12-70	7.5		112	111	110	109	107	105	103	99	95	90		
12-80	7.5		128	127	126	124	122	120	118	113	108	102		
12-90	11		144	143	141	140	138	135	132	127	122	115		
12-100	11		160	159	157	155	153	150	147	141	135	128		
12-110	11		176	175	173	171	168	165	162	155	149	141		
12-120	11		192	191	188	186	184	180	176	169	162	154		
12-130	15		208	207	204	202	199	195	191	183	176	166		
12-140	15		224	223	220	217	214	210	206	197	189	179		
12-150	15		240	239	236	233	230	225	221	212	203	192		
12-160	15		256	254	251	248	245	240	235	226	216	205		
12-170	15		272	270	267	264	260	255	250	240	230	217		
12-180	18.5		288	286	283	279	276	270	265	254	243	230		
12-190	18.5		304	302	298	295	291	285	279	268	257	243		
12-200	18.5		320	318	314	310	306	300	294	282	270	256		

Curves



Dimensions and Weights

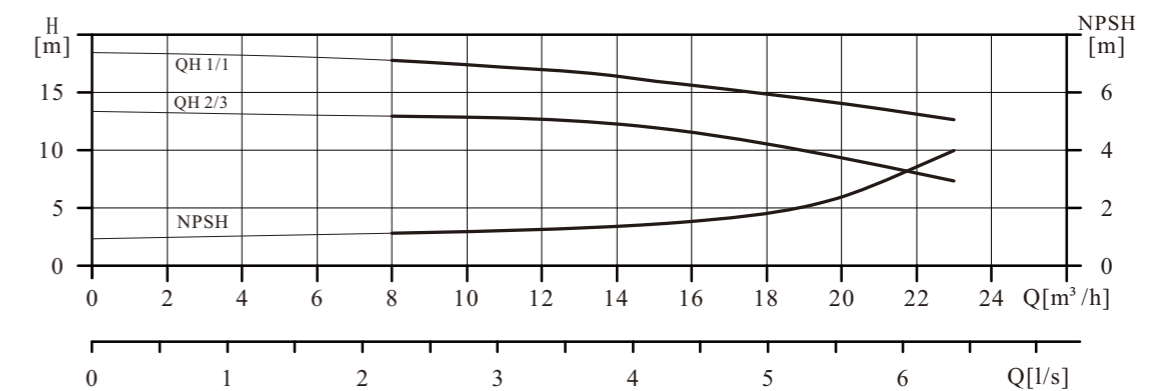
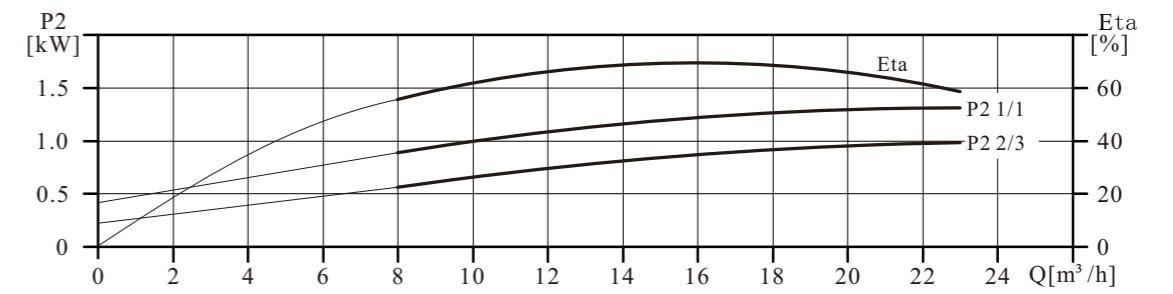
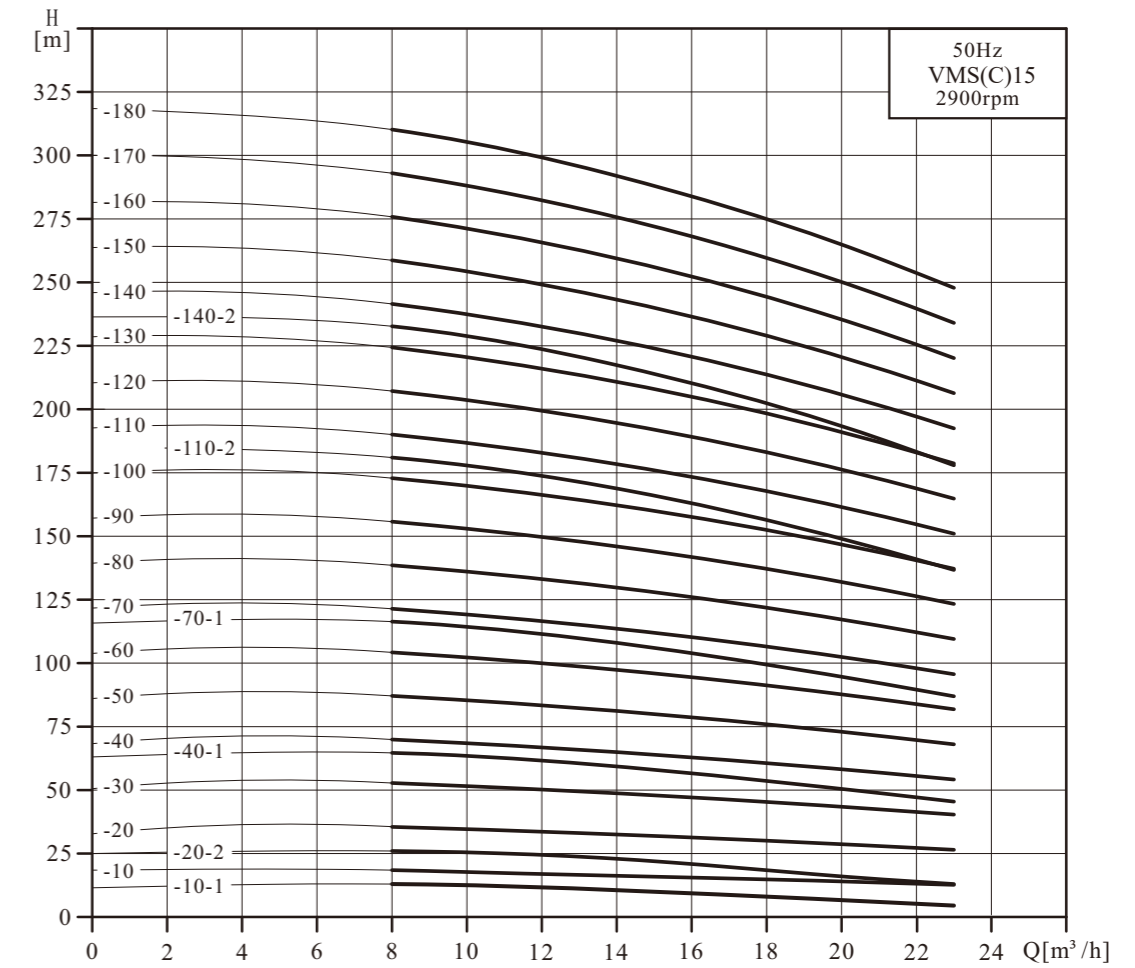


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
15-10-1	346	280	626	170	142	39
15-10	356	350	706	190	155	45
15-20-2	401	350	751	190	155	51
15-20	411	410	821	196	165	58
15-30	456	410	866	230	185	68
15-40-1	501	410	911	230	185	69
15-40	521	465	986	260	210	93
15-50	566	465	1031	260	210	94
15-60	611	465	1076	260	210	102
15-70-1	656	465	1121	260	210	103
15-70	745	610	1355	350	260	158
15-80	790	610	1400	350	260	159
15-90	835	610	1445	350	260	160
15-100	880	610	1490	350	260	161
15-110-2	925	610	1535	350	260	162
15-110	925	610	1535	350	260	171
15-120	970	610	1580	350	260	172
15-130	1015	610	1625	350	260	173
15-140-2	1060	610	1670	350	260	174
15-140	1060	640	1700	350	260	196
15-150	1105	640	1745	350	260	197
15-160	1150	640	1790	350	260	198
15-170	1195	670	1865	360	285	232
15-180	1240	670	1910	360	285	233

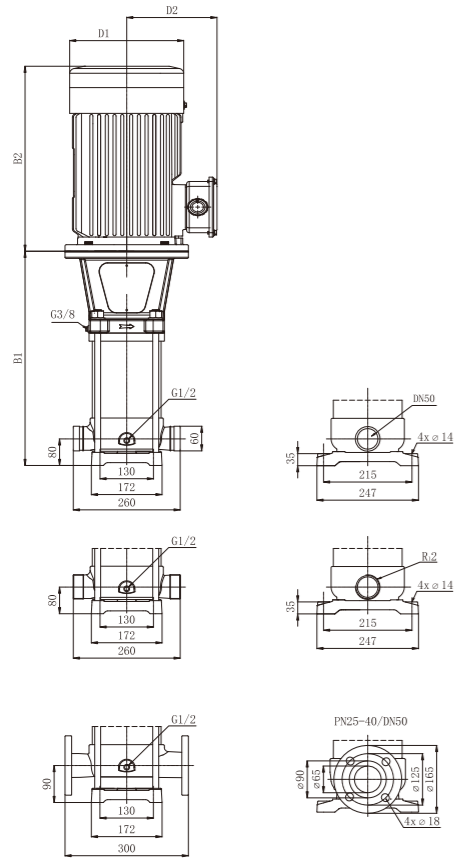
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)										
			8	10	12	14	15	16	18	20	23		
15-10-1	1.1		13	12	11.5	10.5	10	9	7.5	6	4.5		
15-10	1.5		17.5	17	16.6	16.3	16	15.5	15	14.5	14		
15-20-2	2.2		26	25	24	23	22	20.5	18	16	13		
15-20	3		34.5	34	33	32.5	32	31.5	30.5	29.5	28		
15-30	4		52	51	50	49	48	47.5	46	44.5	41		
15-40-1	4		65	63	61	59	58	57	54	51	46		
15-40	5.5		69	68	66.5	65	64	63	61	59	55		
15-50	5.5		86	85	83	81	80	79	77	74	69		
15-60	7.5		103	102	100	98	96	95	92	89	83		
15-70-1	7.5		116	114	111	108	106	104	99	95	87		
15-70	11		121	119	116	114	112	111	107	104	96		
15-80	11		138	136	133	130	128	127	122	118	110		
15-90	11		155	153	149	146	144	143	138	133	124		
15-100	11		172	170	166	163	160	158	153	148	138		
15-110-2	11		181	178	173	169	166	163	156	149	137		
15-110	15		190	187	183	179	176	174	168	163	151		
15-120	15		207	204	199	195	192	190	184	177	165		
15-130	15		224	221	216	212	208	206	199	192	179		
15-140-2	15		233	229	223	218	214	211	202	193	178		
15-140	18.5		241	238	232	228	224	222	214	207	193		
15-150	18.5		258	255	249	244	240	238	230	222	206		
15-160	18.5		276	272	266	260	256	253	245	237	220		
15-170	22		293	288	282	277	272	269	260	251	234		
15-180	22		310	305	299	293	288	285	275	266	248		

Curves



Dimensions and Weights

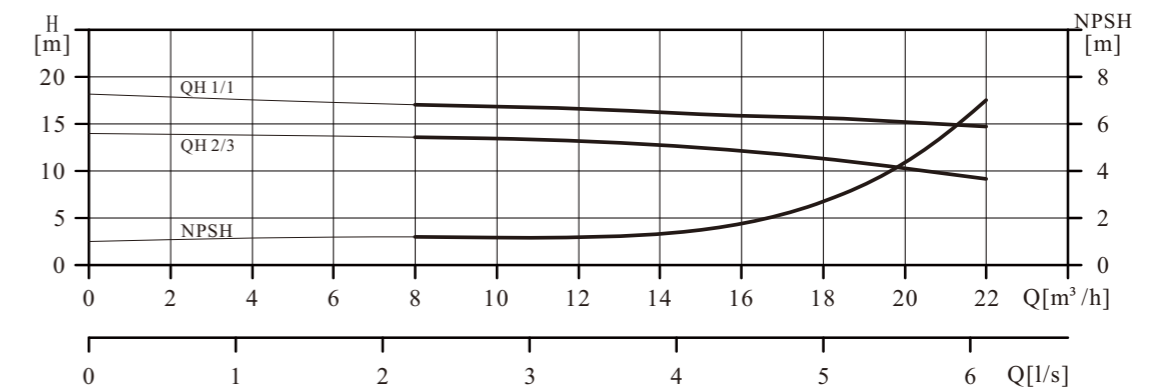
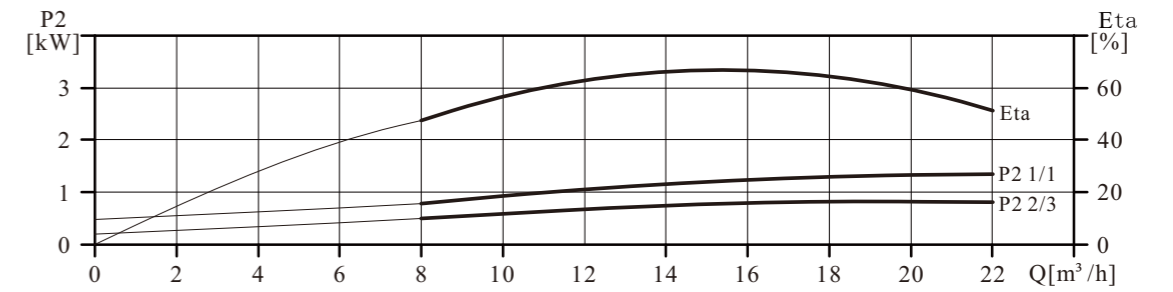
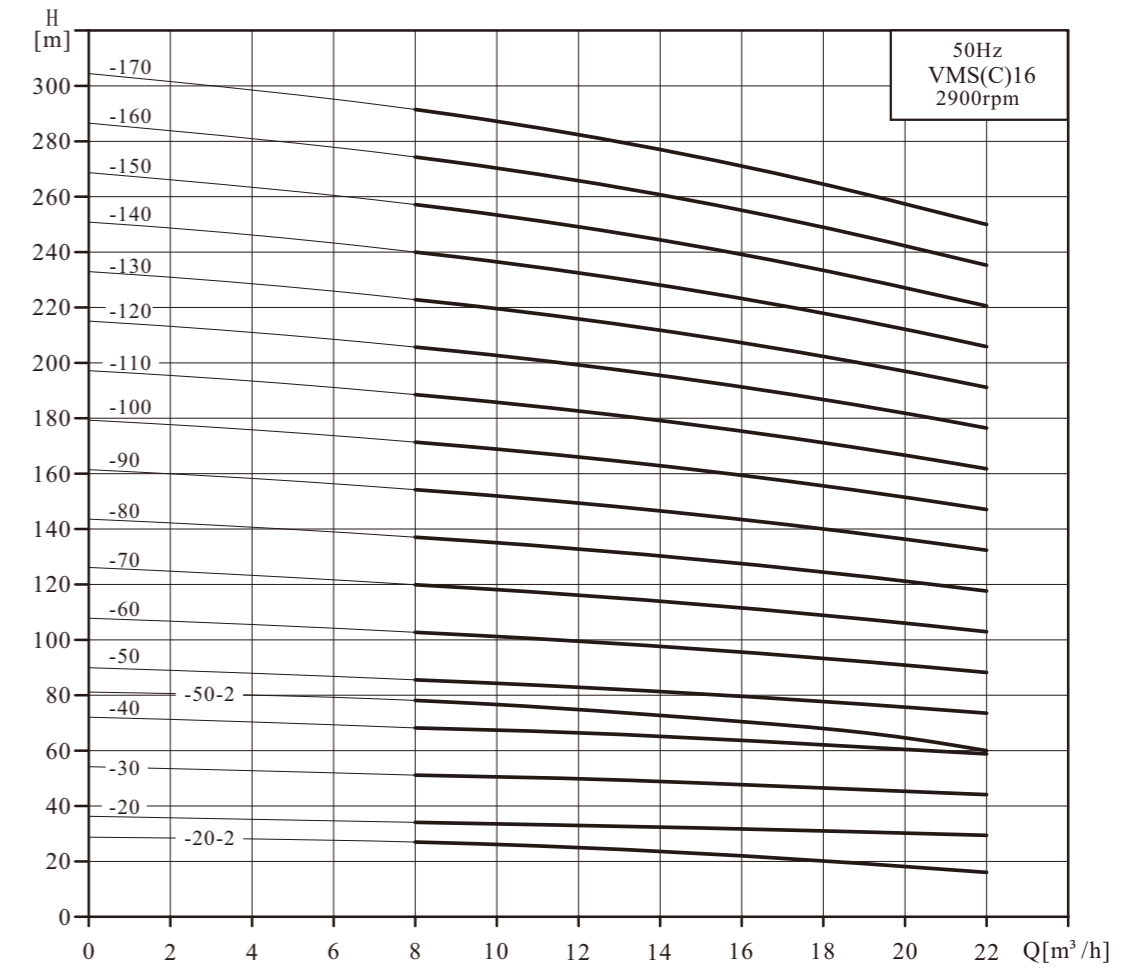


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
16-20-2	401	350	751	190	155	51
16-20	411	410	821	196	165	58
16-30	456	410	866	230	185	68
16-40	521	465	986	260	210	93
16-50-2	566	465	1031	260	210	94
16-50	566	465	1031	260	210	101
16-60	611	465	1076	260	210	102
16-70	745	610	1355	350	260	159
16-80	790	610	1400	350	260	159
16-90	835	610	1445	350	260	160
16-100	880	610	1490	350	260	168
16-110	925	610	1535	350	260	169
16-120	970	610	1580	350	260	171
16-130	1015	640	1655	350	260	194
16-140	1060	640	1700	350	260	195
16-150	1105	670	1775	360	285	228
16-160	1150	670	1820	360	285	229
16-170	1195	670	1865	360	285	231

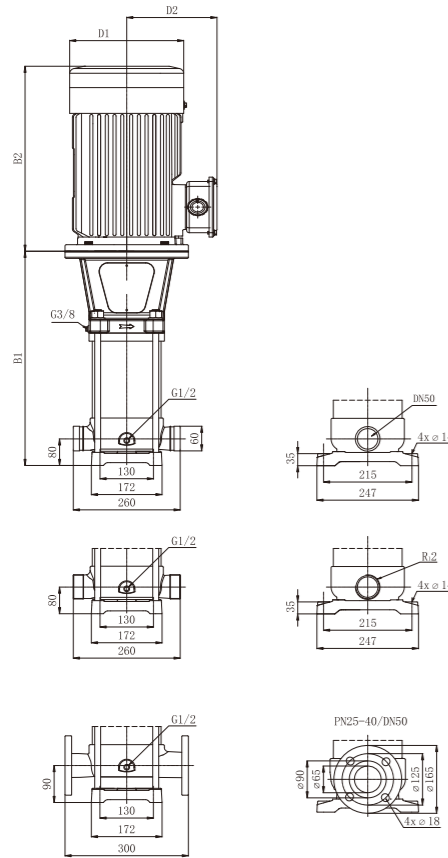
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)																	
			8	10	12	14	16	18	20	22										
16-20-2	2.2	H (m)	27	26	25	24	22	21	19	16										
16-20	3		34	33.5	33	32.5	32	31	30	29										
16-30	4		51	50.5	50	48.5	48	47	46	44										
16-40	5.5		68	67	66	64.5	63.5	63	61	59										
16-50-2	5.5		78	77	75	73	70	68	65	60										
16-50	7.5		85	84	83	81	79	78	76	74										
16-60	7.5		102	101	100	97	95	94	91	88										
16-70	11		119	118	116	113	110	109	106	103										
16-80	11		136	135	133	129	126	125	122	118										
16-90	11		153	152	149	145	142	141	137	132										
16-100	15		170	168	166	161	158	156	152	147										
16-110	15		187	185	183	178	173	172	167	162										
16-120	15		204	202	199	194	189	188	183	176										
16-130	18.5		222	219	216	210	205	203	198	191										
16-140	18.5		239	236	233	226	221	219	213	206										
16-150	22		256	253	250	242	237	235	229	220										
16-160	22		273	270	267	258	253	250	244	235										
16-170	22		290	287	284	274	269	266	259	250										

Curves



Dimensions and Weights

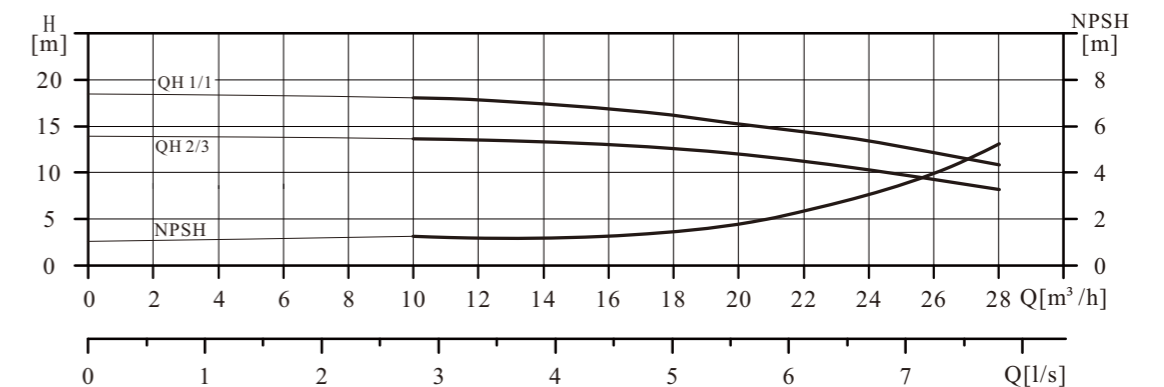
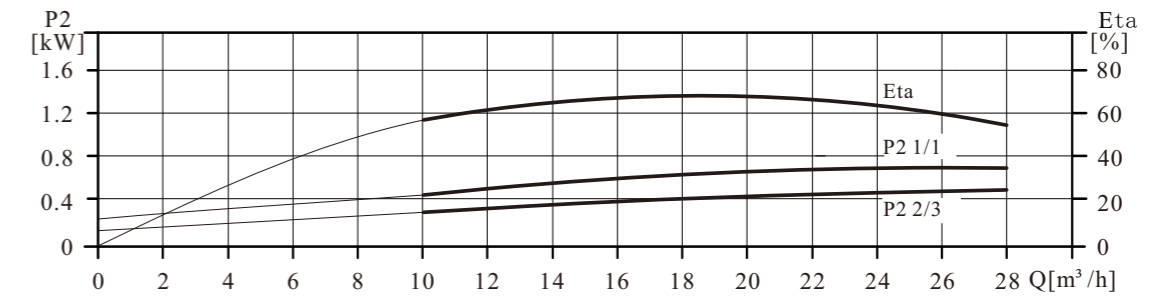
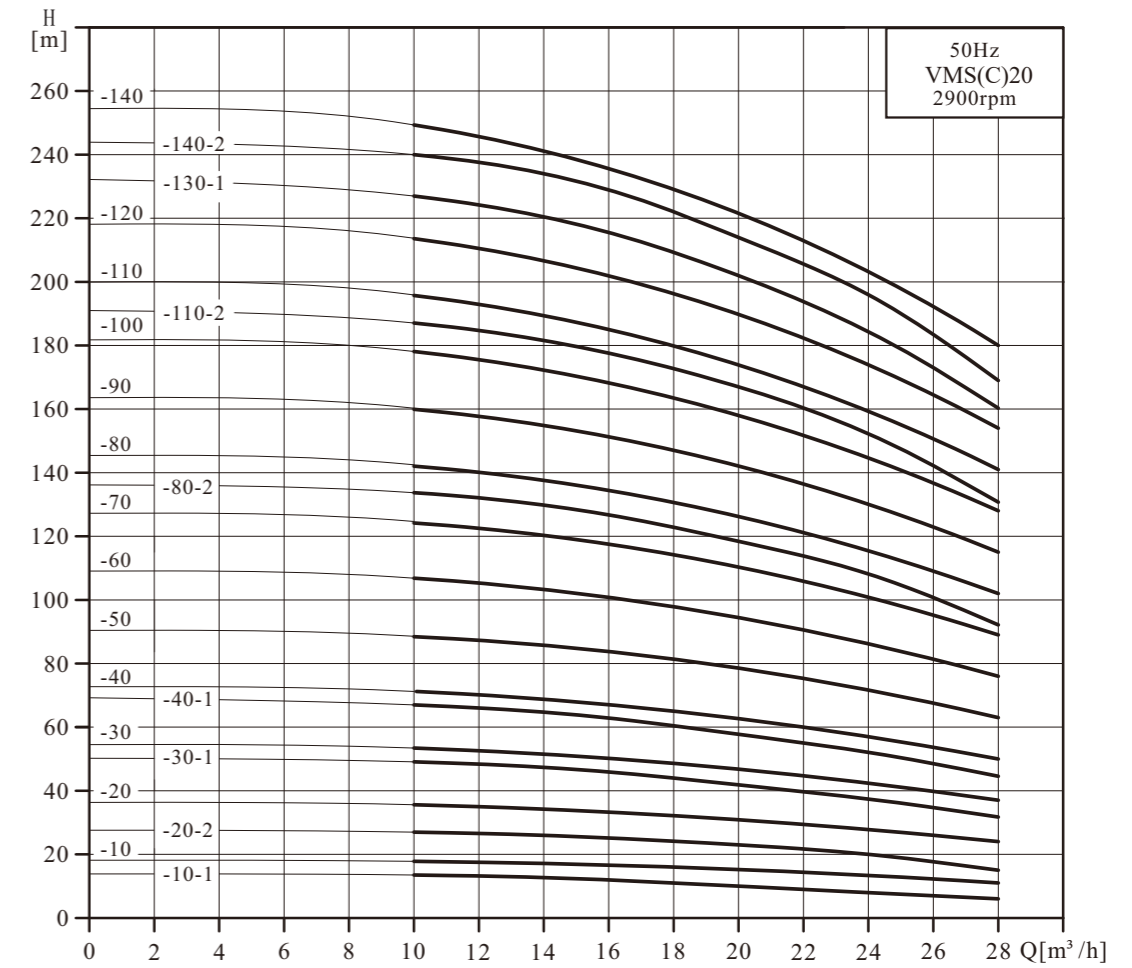


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
20-10-1	346	280	626	170	142	40
20-10	356	350	706	190	155	47
20-20-2	401	350	751	190	155	52
20-20	411	410	821	196	165	58
20-30-1	456	410	866	230	185	69
20-30	476	465	941	260	210	94
20-40-1	521	465	986	260	210	95
20-40	521	465	986	260	210	103
20-50	566	465	1031	260	210	105
20-60	700	610	1310	350	260	160
20-70	745	610	1355	350	260	161
20-80-2	790	610	1400	350	260	162
20-80	790	610	1400	350	260	169
20-90	835	610	1445	350	260	171
20-100	880	610	1490	350	260	172
20-110-2	925	610	1535	350	260	173
20-110	925	640	1565	350	260	197
20-120	970	640	1610	350	260	198
20-130-1	1015	640	1655	350	260	199
20-140-2	1060	670	1730	360	285	233
20-140	1060	670	1730	360	285	234

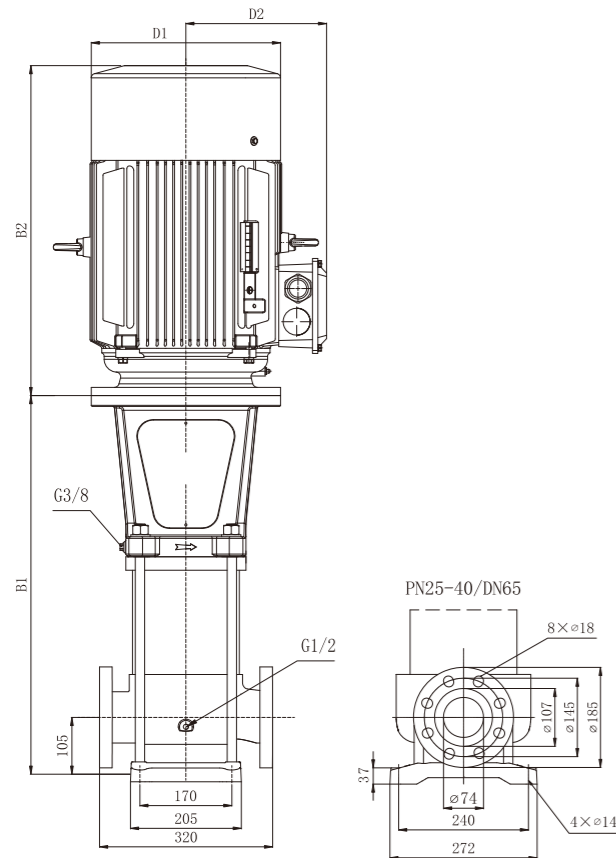
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)											
			10	12	14	16	18	20	22	24	26	28		
20-10-1	1.1		13.5	13	12.5	12	11	10	9	8	7	6		
20-10	1.5		18	17.5	17	16.5	16	15.5	15	14.5	14	13		
20-20-2	2.2		27	26.5	26	25	24	23	22	20	18	15		
20-20	3		36	35	34.5	34	33	32	31	29	28	26		
20-30-1	4		49	48	47	46	44	42	40	37	35	32		
20-30	5.5		53.5	53	52	51	49	48	46	44	41	39		
20-40-1	5.5		67	66	64	63	60	58	55	52	48	45		
20-40	7.5		71	70	69	68	66	64	62	59	55	51		
20-50	7.5		89	88	86	85	82	80	77	74	69	64		
20-60	11		107	105	104	102	98	95	92	88	83	77		
20-70	11		125	123	121	119	115	111	108	103	96	90		
20-80-2	11		134	132	130	127	122	118	114	108	101	92		
20-80	15		142	140	138	136	131	127	123	118	110	103		
20-90	15		160	158	155	153	148	143	138	132	124	116		
20-100	15		178	176	173	170	164	159	154	147	138	129		
20-110-2	15		187	185	181	178	172	167	160	152	142	131		
20-110	18.5		196	193	190	187	180	175	169	162	151	141		
20-120	18.5		213	211	207	204	197	191	185	176	165	154		
20-130-1	18.5		227	224	220	216	208	202	194	184	172	160		
20-140-2	22		240	237	233	229	221	214	207	196	183	169		
20-140	22		249	246	242	237	230	223	215	206	193	180		

Curves



Dimensions and Weights



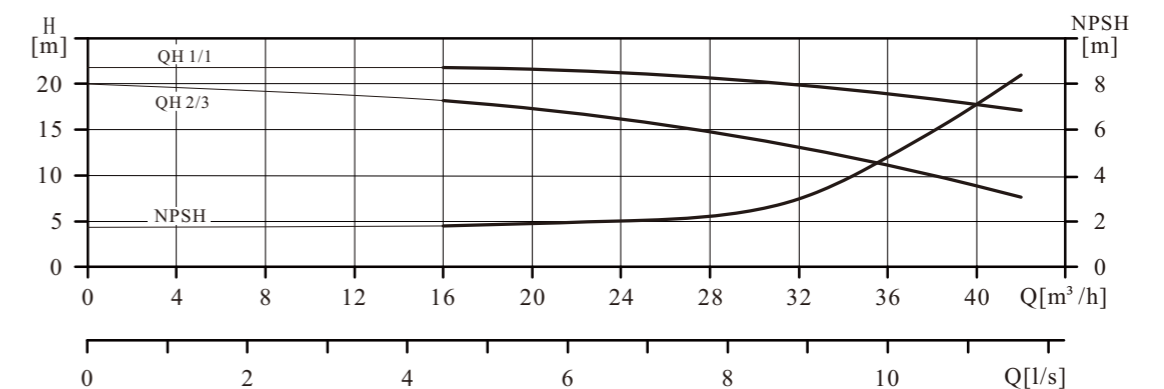
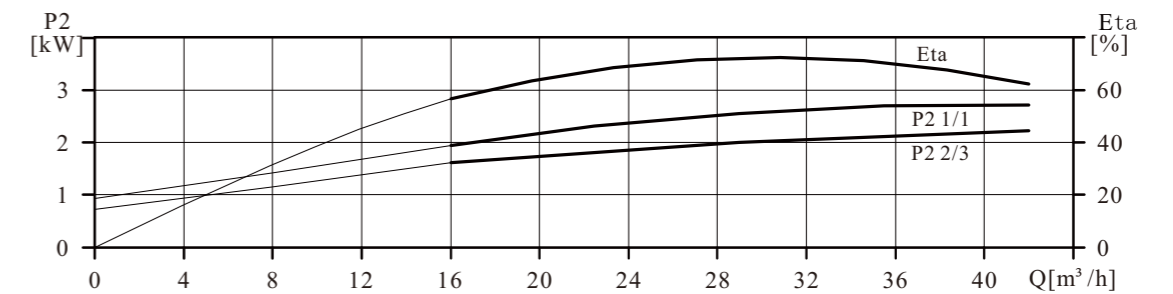
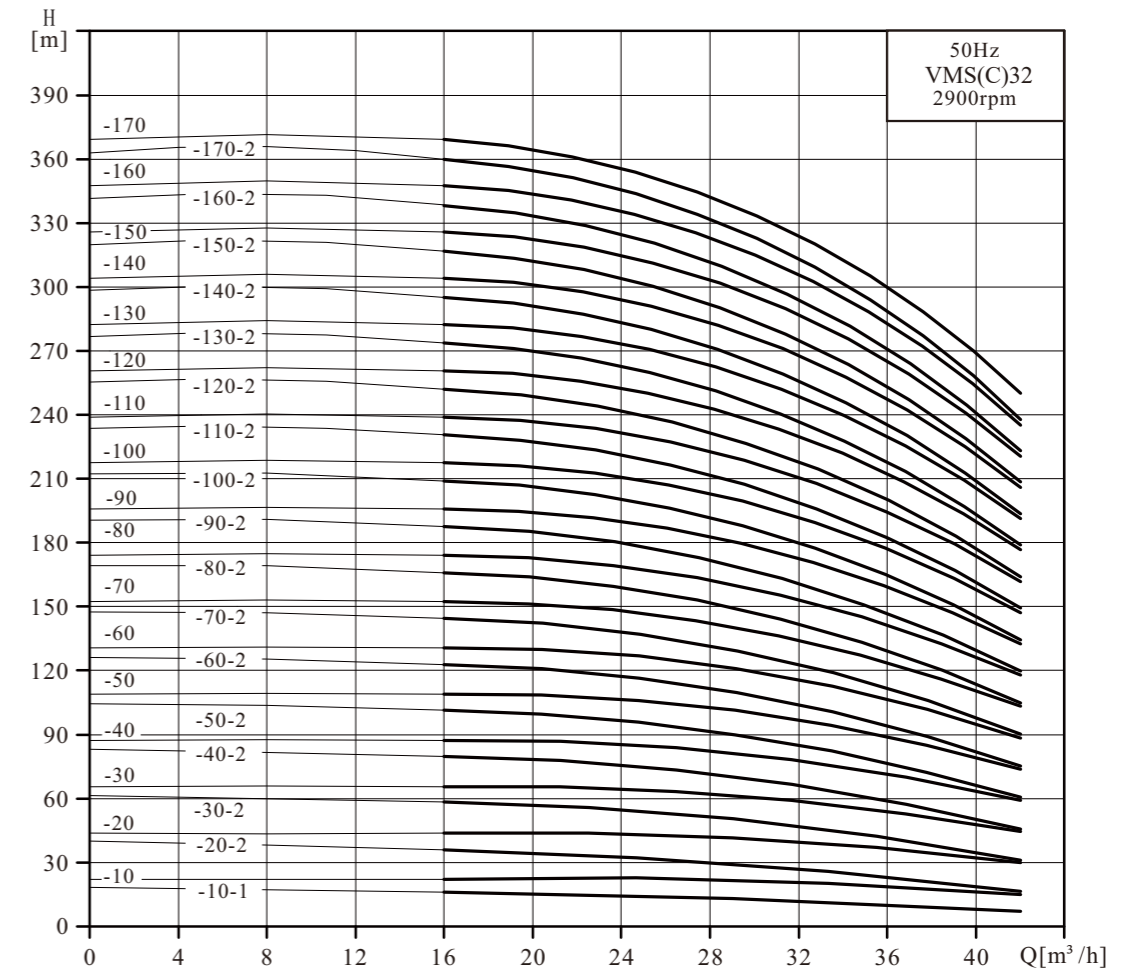
Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
32-10-1	444	350	794	190	155	61
32-10	454	410	864	196	165	67
32-20-2	524	410	934	230	185	78
32-20	530	465	995	260	210	102
32-30-2	600	465	1065	260	210	111
32-30	700	610	1310	350	260	167
32-40-2/32-40	770	610	1380	350	260	169
32-50-2/32-50	840	610	1450	350	260	178
32-60-2	910	610	1520	350	260	180
32-60	910	640	1550	350	260	202
32-70-2/32-70	980	640	1620	350	260	204
32-80-2/32-80	1050	670	1720	360	285	240
32-90-2	1120	670	1790	360	285	242
32-90	1120	715	1835	400	310	310
32-100-2/32-100	1190	715	1905	400	310	316
32-110-2/32-110	1260	715	1975	400	310	318
32-120-2	1330	715	2045	400	310	320
32-120	1330	715	2045	400	310	334
32-130-2/32-130	1400	715	2115	400	310	336
32-140-2/32-140	1470	715	2185	400	310	338
32-150-2/32-150	1540	740	2280	460	340	411
32-160-2/32-160	1610	740	2350	460	340	413
32-170-2/32-170	1680	740	2420	460	340	415

Performance Range

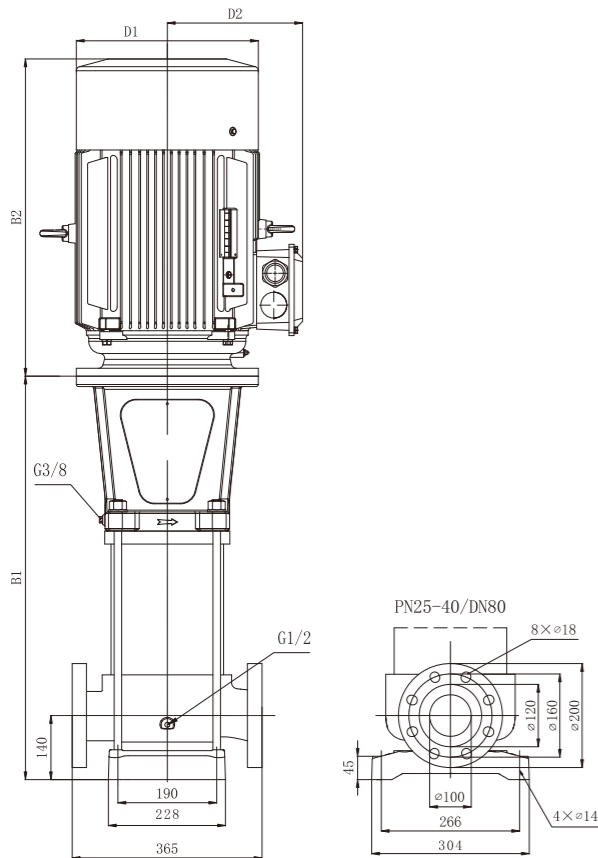
Model	Motor (kW)	Q (m³/h)	H (m)							
			16	20	24	28	32	36	40	42
32-10-1	2.2		18	17	15	14	13	11	8	7
32-10	3		22	21.5	21	20	19	18	16	15
32-20-2	4		36	34	32	29	27	23	18	17
32-20	5.5		43	42.5	42	40	38	35	32	29
32-30-2	7.5		58	55	53	49	46	41	34	31
32-30	11		65	64	63	61	57	53	48	44
32-40-2	11		79	77	74	69	65	58	50	46
32-40	11		86	85	83	81	77	71	63	59
32-50-2	15		101	98	95	90	84	76	66	61
32-50	15		108	107	104	101	96	88	79	74
32-60-2	15		122	119	115	110	104	94	81	75
32-60	18.5		129	128	125	121	115	106	95	88
32-70-2	18.5		144	141	136	130	123	111	97	90
32-70	18.5		151	149	146	141	134	124	111	103
32-80-2	22		165	162	157	150	142	129	113	105
32-80	22		172	171	167	162	153	142	127	118
32-90-2	22		187	183	178	170	161	147	129	120
32-90	30		194	192	188	182	172	159	143	133
32-100-2	30		208	205	199	191	180	165	145	134

Model	Motor (kW)	Q (m³/h)	H (m)							
			16	20	24	28	32	36	40	42
32-100	30		215	214	208	202	191	177	159	147
32-110-2	30		230	226	220	211	199	182	161	149
32-110	30		237	235	229	222	210	195	174	162
32-120-2	30		251	248	240	231	218	200	177	164
32-120	37		258	256	250	242	230	212	190	177
32-130-2	37		273	269	261	251	237	218	192	179
32-130	37		280	278	271	263	249	230	206	192
32-140-2	37		294	290	282	271	257	235	208	193
32-140	37		301	299	292	283	268	248	222	206
32-150-2	45		316	312	303	292	276	253	224	208
32-150	45		323	320	313	303	287	265	238	221
32-160-2	45		337	333	324	312	295	271	240	223
32-160	45		345	342	333	323	306	283	254	236
32-170-2	45		359	354	345	332	314	288	256	238
32-170	45		366	363	354	343	325	301	270	251

Curves



Dimensions and Weights

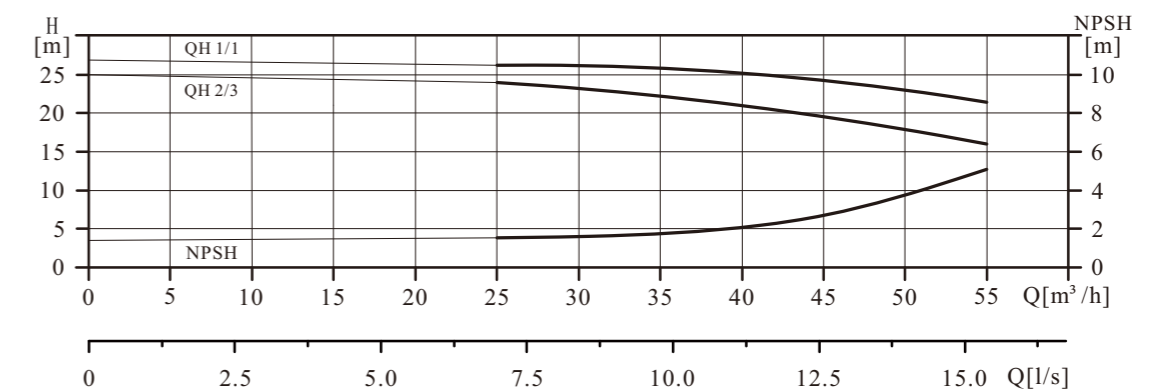
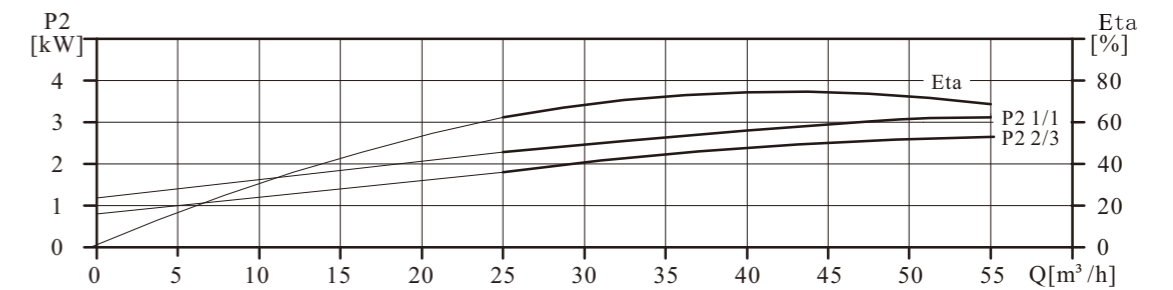
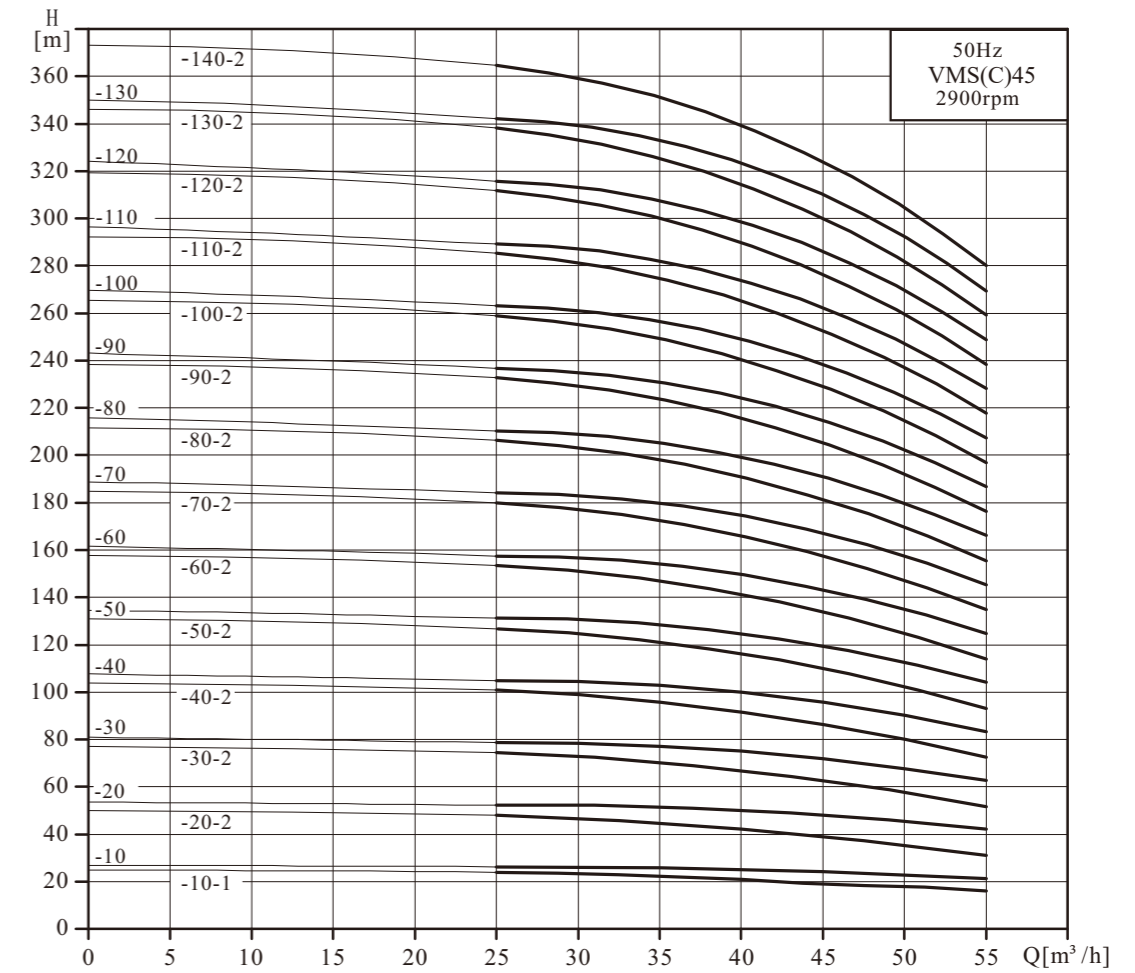


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
45-10-1	507	410	917	230	185	84
45-10	516	465	981	260	210	108
45-20-2	596	465	1061	260	210	118
45-20	696	610	1306	350	260	174
45-30-2	776	610	1386	350	260	177
45-30	776	610	1386	350	260	186
45-40-2	856	640	1496	350	260	210
45-40	856	640	1496	350	260	210
45-50-2	936	640	1576	350	260	213
45-50	936	670	1606	360	285	247
45-60-2	1016	715	1731	400	310	322
45-60	1016	715	1731	400	310	322
45-70-2	1096	715	1811	400	310	324
45-70	1096	715	1811	400	310	324
45-80-2	1176	715	1891	400	310	341
45-80	1176	715	1891	400	310	341
45-90-2	1256	715	1971	400	310	344
45-90	1256	715	1971	400	310	344
45-100-2	1336	740	2076	460	340	417
45-100	1336	740	2076	460	340	418
45-110-2	1416	740	2156	460	340	420
45-110	1416	740	2156	460	340	420
45-120-2	1526	820	2346	550	370	527
45-120	1526	820	2346	550	370	527
45-130-2	1606	820	2426	550	370	529
45-130	1606	820	2426	550	370	529
45-140-2	1686	820	2506	550	370	532

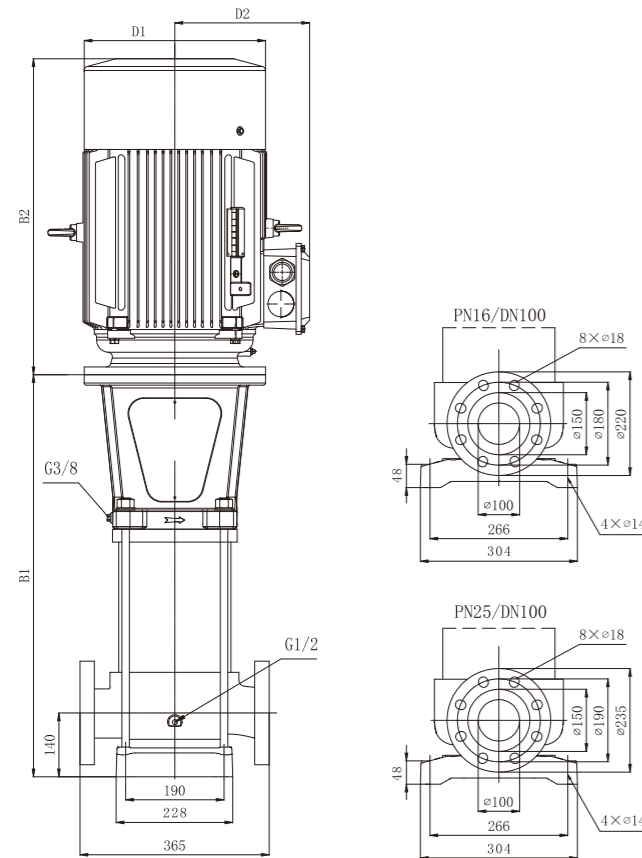
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)						
			25	30	35	40	45	50	55
45-10-1	4		24	23	22	21	19	18	16
45-10	5.5		26.5	26	25.5	25	23.5	22	21
45-20-2	7.5		48	46	44	42	39	35	31
45-20	11		53	52	51	49	48	45	41
45-30-2	11		74	72	69	67	63	57	52
45-30	15		79	78	76	74	71	67	62
45-40-2	18.5		101	98	95	91	87	80	72
45-40	18.5		105	104	102	99	95	90	83
45-50-2	18.5		127	124	120	116	110	102	93
45-50	22		132	130	127	124	119	112	104
45-60-2	30		153	150	146	141	134	125	114
45-60	30		158	156	153	148	143	134	124
45-70-2	30		180	176	171	166	158	147	135
45-70	30		184	182	178	173	166	157	145
45-80-2	37		206	202	197	190	182	169	155
45-80	37		210	208	204	198	190	179	166
45-90-2	37		232	228	222	215	205	192	176
45-90	37		237	234	229	222	214	202	186
45-100-2	45		258	254	248	240	229	214	197
45-100	45		263	260	255	247	238	224	207
45-110-2	45		285	280	273	264	253	237	217
45-110	45		289	285	280	272	261	246	228
45-120-2	55		311	306	299	289	277	259	238
45-120	55		316	311	305	296	285	269	248
45-130-2	55		337	331	324	314	300	281	259
45-130	55		342	337	331	321	309	291	269
45-140-2	55		364	357	349	338	324	304	279

Curves



Dimensions and Weights

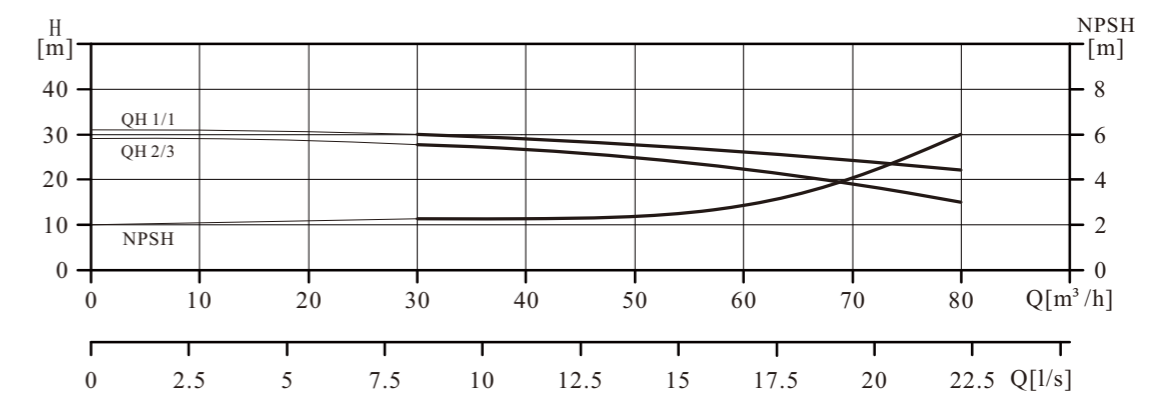
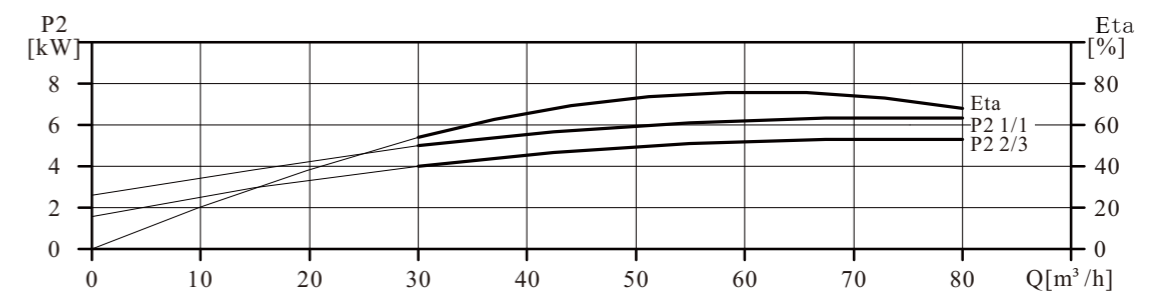
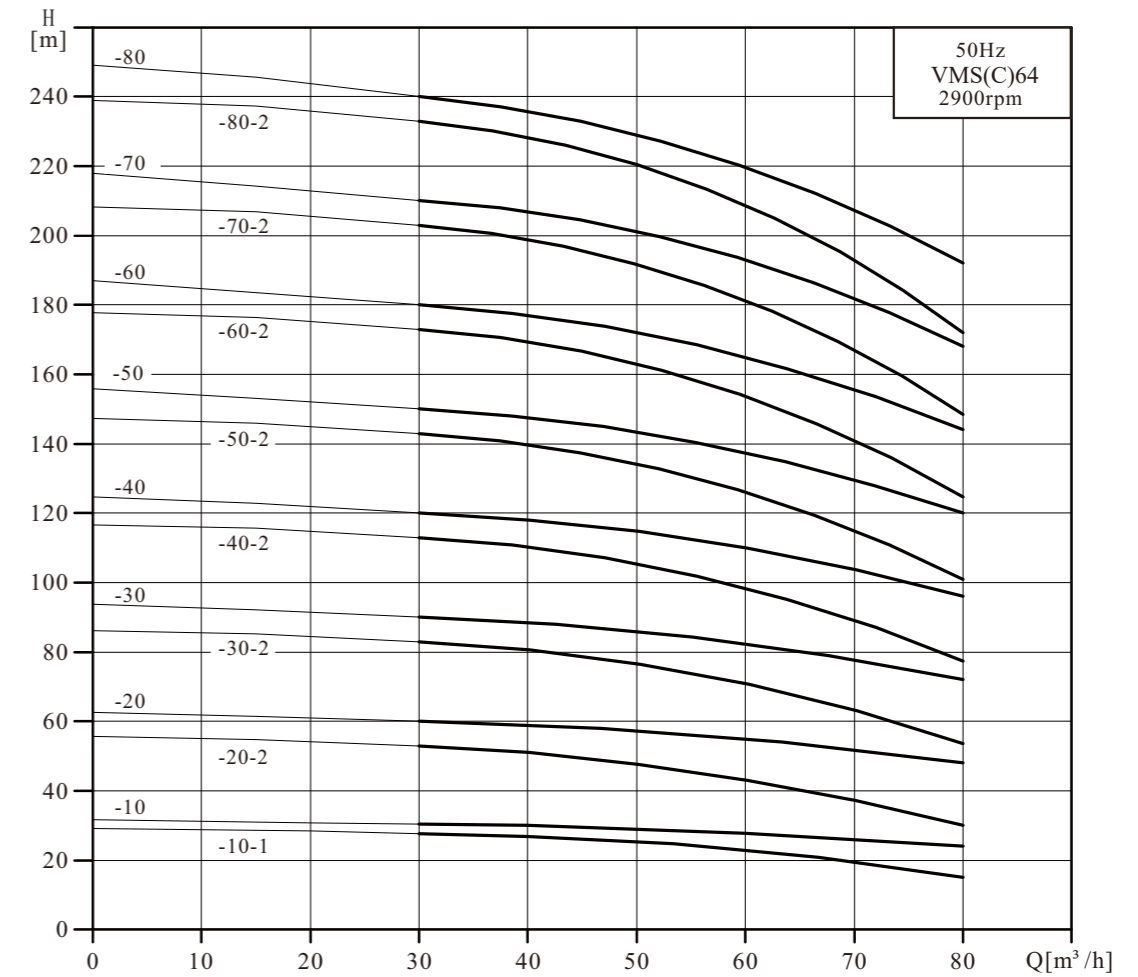


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
64-10-1	519	465	984	260	210	110
64-10	519	465	984	260	210	120
64-20-2	702	610	1312	350	260	177
64-20	702	610	1312	350	260	184
64-30-2	785	640	1425	350	260	209
64-30	785	670	1455	360	285	243
64-40-2	868	715	1583	400	310	318
64-40	868	715	1583	400	310	318
64-50-2	951	715	1666	400	310	335
64-50	951	715	1666	400	310	335
64-60-2	1034	740	1774	460	340	409
64-60	1034	740	1774	460	340	409
64-70-2	1147	820	1967	550	370	516
64-70	1147	820	1967	550	370	516
64-80-2	1230	820	2050	550	370	519
64-80	1230	820	2050	550	370	519

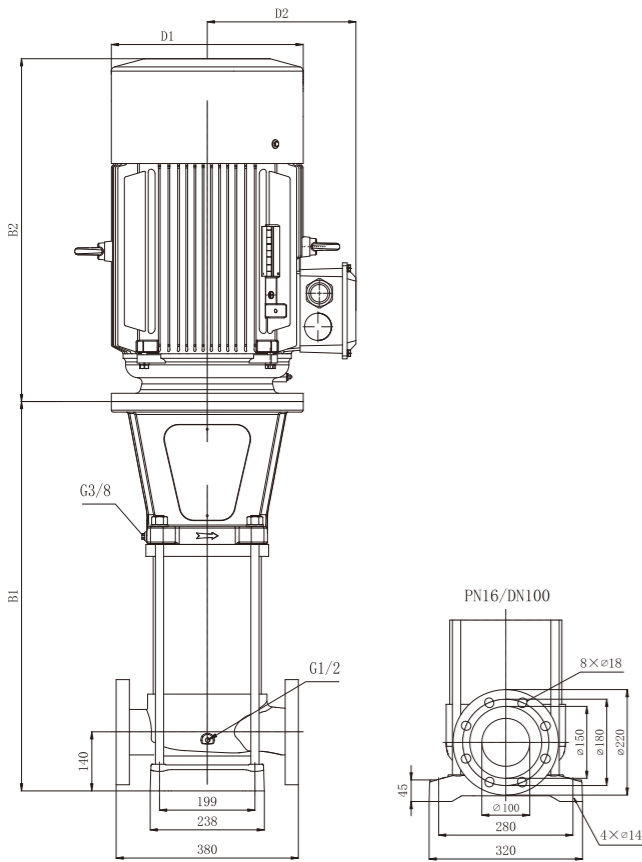
Performance Range

Model	Motor Power (kW)	Q (m ³ /h)	H (m)							
			30	40	50	60	64	70	80	
64-10-1	5.5		27	25	23	21	20	18	15	
64-10	7.5		30	29.5	29	28	27	26	24	
64-20-2	11		53	51	47	43	41	37	30	
64-20	15		60	59	58	55	54	52	48	
64-30-2	18.5		83	81	76	71	68	63	54	
64-30	22		90	89	86	83	81	78	72	
64-40-2	30		113	110	105	98	95	89	78	
64-40	30		120	119	115	110	108	104	96	
64-50-2	37		143	140	133	126	122	115	102	
64-50	37		150	148	144	138	135	130	120	
64-60-2	45		173	170	162	153	149	141	126	
64-60	45		180	178	173	165	162	156	144	
64-70-2	55		203	199	191	181	176	167	150	
64-70	55		210	207	201	193	189	182	168	
64-80-2	55		233	229	220	208	203	193	174	
64-80	55		240	237	230	220	216	208	192	

Curves



Dimensions and Weights

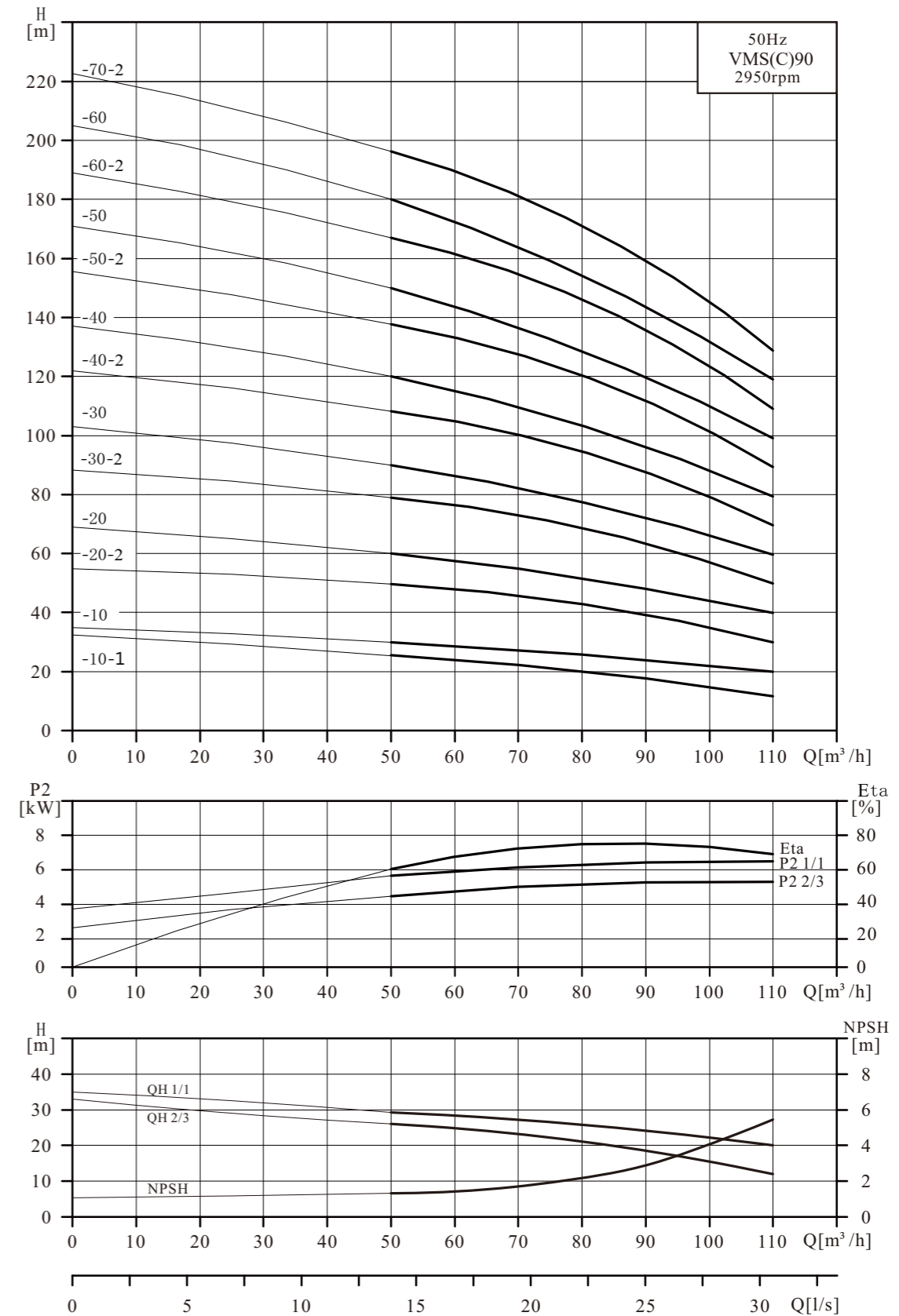


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
90-10-1	598	465	1063	260	210	125
90-10	628	610	1238	350	260	179
90-20-2	720	610	1330	350	260	189
90-20	720	640	1360	350	260	217
90-30-2	812	670	1482	360	285	248
90-30	812	715	1527	400	310	319
90-40-2	904	715	1619	400	310	322
90-40	904	715	1619	400	310	336
90-50-2	996	740	1736	460	340	412
90-50	996	740	1736	460	340	412
90-60-2	1118	820	1938	550	370	519
90-60	1118	820	1938	550	370	519
90-70-2	1210	820	2030	550	370	522

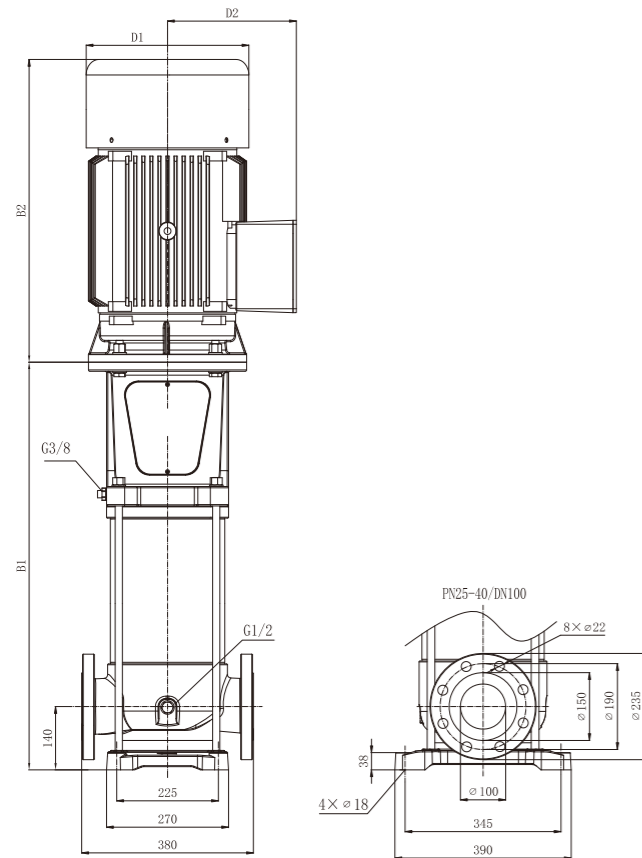
Performance Range

Model	Motor Power (kW)	Q (m ³ /h)	H (m)							
			50	60	70	80	90	100	110	
90-10-1	7.5		25	24	22	21	19	16	12	
90-10	11		29	28	27	26	24	22	20	
90-20-2	15		53	50	47	44	40	36	30	
90-20	18.5		58	56	55	51	48	44	39	
90-30-2	22		82	78	74	70	64	58	50	
90-30	30		87	84	82	77	72	66	59	
90-40-2	30		111	106	102	95	88	80	69	
90-40	37		116	112	109	103	96	88	79	
90-50-2	45		140	134	129	121	112	102	89	
90-50	45		145	140	137	128	120	110	98	
90-60-2	55		169	162	156	147	136	124	109	
90-60	55		174	168	164	154	144	132	118	
90-70-2	55		198	190	184	172	160	146	128	

Curves



Dimensions and Weights

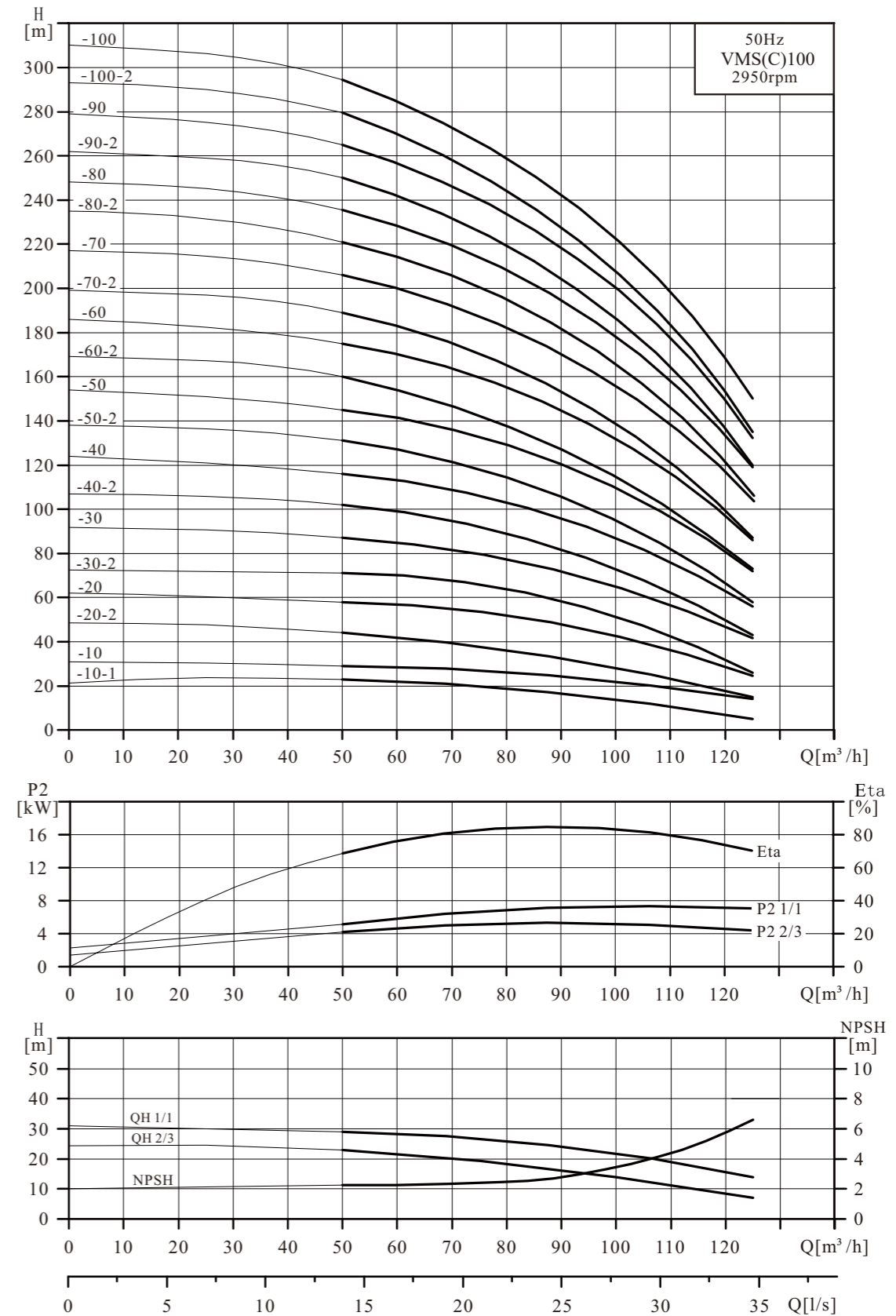


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
100-10-1	592	465	1057	260	210	120
100-10	592	465	1057	260	210	127
100-20-2	797	610	1407	350	260	188
100-20	797	610	1407	350	260	195
100-30-2	902	640	1542	360	285	223
100-30	902	670	1572	360	285	256
100-40-2	1007	715	1722	400	310	332
100-40	1007	715	1722	400	310	332
100-50-2	1112	715	1827	400	310	351
100-50	1112	715	1827	400	310	351
100-60-2	1217	740	1957	460	340	431
100-60	1217	740	1957	460	340	431
100-70-2	1352	820	2172	550	370	540
100-70	1352	820	2172	550	370	540
100-80-2	1457	820	2277	550	370	545
100-80	1457	870	2327	580	410	660
100-90-2	1562	870	2432	580	410	665
100-90	1562	870	2432	580	410	665
100-100-2	1667	870	2537	580	410	671
100-100	1667	870	2537	580	410	671

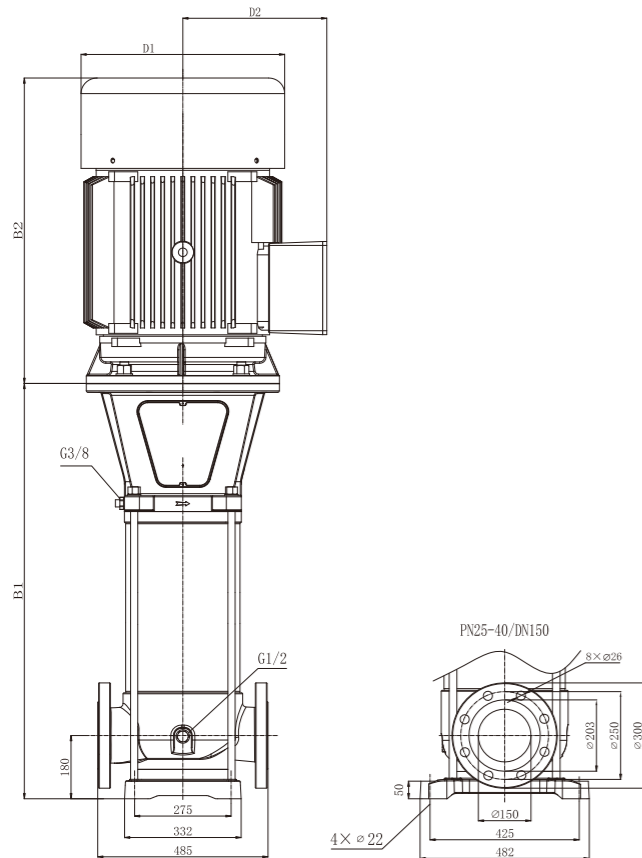
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)																		
			50	60	70	80	90	100	110	120	125										
100-10-1	5.5	H (m)	23	22	20	18	16	14	11	8	7										
100-10	7.5		29	28	27	26	24	22	18	16	14										
100-20-2	11		44	43	41	38	34	28	23	17	15										
100-20	15		58	56	54	52	49	43	37	31	28										
100-30-2	18.5		71	68	66	62	57	52	42	31	26										
100-30	22		87	84	81	78	73	65	56	48	43										
100-40-2	30		102	99	95	90	83	71	60	48	43										
100-40	30		116	113	109	104	97	87	76	64	58										
100-50-2	37		131	127	122	116	107	93	79	65	58										
100-50	37		145	141	136	130	122	109	96	80	72										
100-60-2	45		160	156	150	142	131	115	99	81	73										
100-60	45		175	170	164	157	146	132	115	96	89										
100-70-2	55		189	184	177	168	156	137	119	97	87										
100-70	55		206	202	193	183	172	156	138	114	105										
100-80-2	55		221	215	207	197	182	165	142	115	103										
100-80	75		235	231	221	209	197	178	158	130	120										
100-90-2	75		250	245	234	221	206	184	161	131	120										
100-90	75		265	260	248	235	221	201	177	147	135										
100-100-2	75		279	274	262	247	231	206	181	147	135										
100-100	75		294	289	279	261	246	223	197	163	150										

Curves



Dimensions and Weights

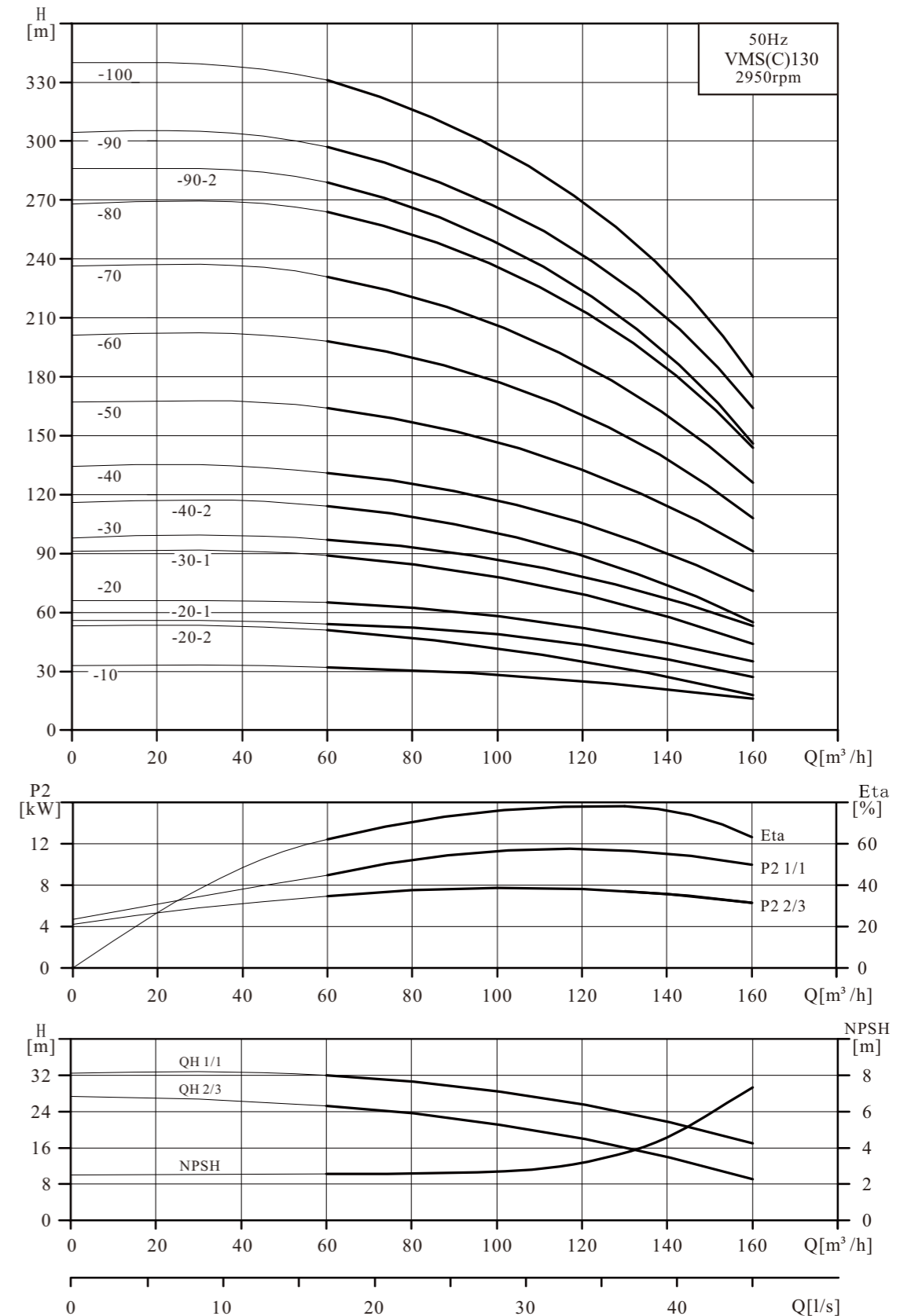


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
130-10	787	610	1397	350	260	222
130-20-2	909	610	1519	350	260	238
130-20-1	909	640	1549	360	285	260
130-20	909	670	1579	360	285	292
130-30-1	1031	715	1746	400	310	371
130-30	1031	715	1746	400	310	385
130-40-2	1153	715	1868	400	310	394
130-40	1153	740	1893	460	340	465
130-50	1305	820	2125	550	370	581
130-60	1427	870	2297	580	410	704
130-70	1549	870	2419	580	410	713
130-80	1671	920	2591	580	410	768
130-90-2	1793	920	2713	580	410	778
130-90	1793	1060	2853	660	550	1169
130-100	1915	1060	2975	660	550	1178

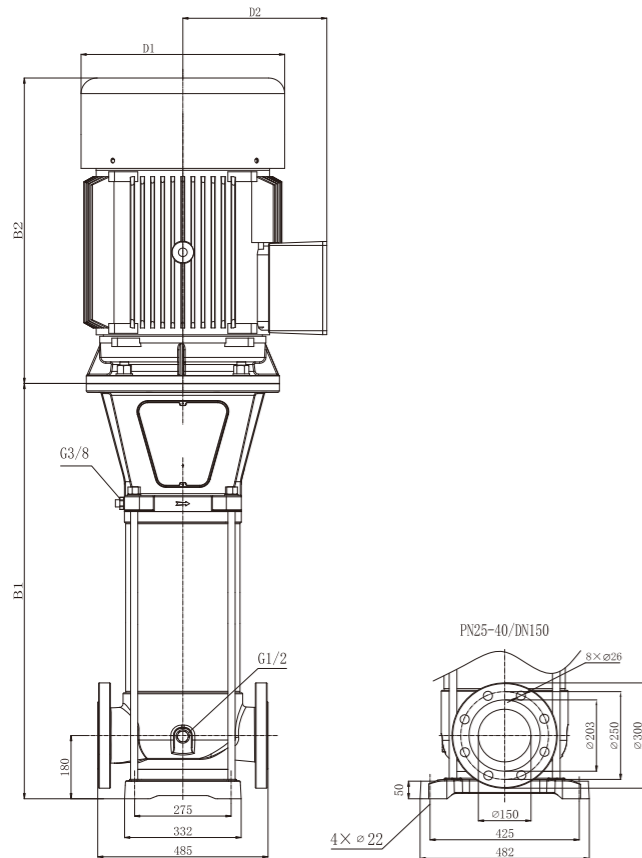
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)											
			60	70	80	90	100	110	120	130	140	150	160	
130-10	11		32	31	30	29	28	27	25	23	22	20	17	
130-20-2	15		51	48	46	43	40	37	34	31	27	23	18	
130-20-1	18.5		54	52	51	50	49	47	45	40	35	31	27	
130-20	22		65	64	62	60	58	56	52	48	44	40	35	
130-30-1	30		89	87	85	82	78	74	70	64	58	51	44	
130-30	37		97	96	94	91	87	83	77	73	67	61	53	
130-40-2	37		114	111	108	104	98	94	89	81	74	64	55	
130-40	45		131	129	125	121	117	113	105	97	89	82	71	
130-50	55		164	162	158	152	147	142	133	124	114	103	91	
130-60	75		198	196	189	182	178	170	161	150	137	122	108	
130-70	75		231	227	222	218	209	199	187	174	159	144	126	
130-80	90		264	260	254	248	238	228	213	200	182	164	144	
130-90-2	90		279	274	269	261	250	239	224	208	188	168	146	
130-90	110		297	293	287	279	268	257	243	227	207	187	164	
130-100	110		331	325	318	311	298	284	270	250	230	207	182	

Curves



Dimensions and Weights

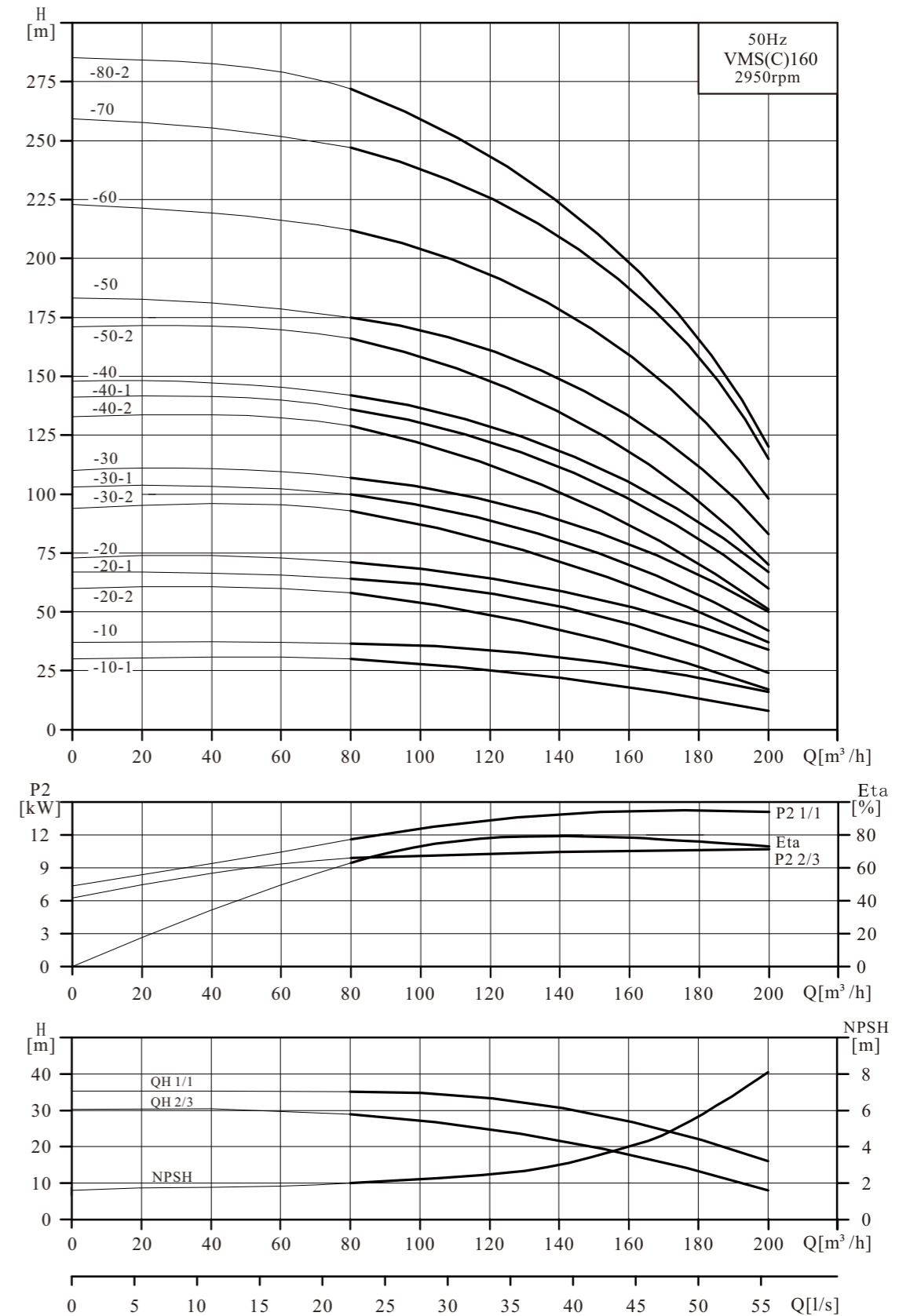


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
160-10-1	787	610	1397	350	260	222
160-10	787	610	1397	350	260	229
160-20-2	909	670	1579	360	285	292
160-20-1	909	715	1624	400	310	362
160-20	909	715	1624	400	310	362
160-30-2	1031	715	1746	400	310	385
160-30-1	1031	740	1771	460	340	457
160-30	1031	740	1771	460	340	457
160-40-2	1183	820	2003	550	370	573
160-40-1	1183	820	2003	550	370	573
160-40	1183	870	2053	580	410	682
160-50-2	1305	870	2175	580	410	696
160-50	1305	870	2175	580	410	696
160-60	1427	920	2347	580	410	752
160-70	1549	1060	2609	660	550	1152
160-80-2	1671	1060	2731	660	550	1161

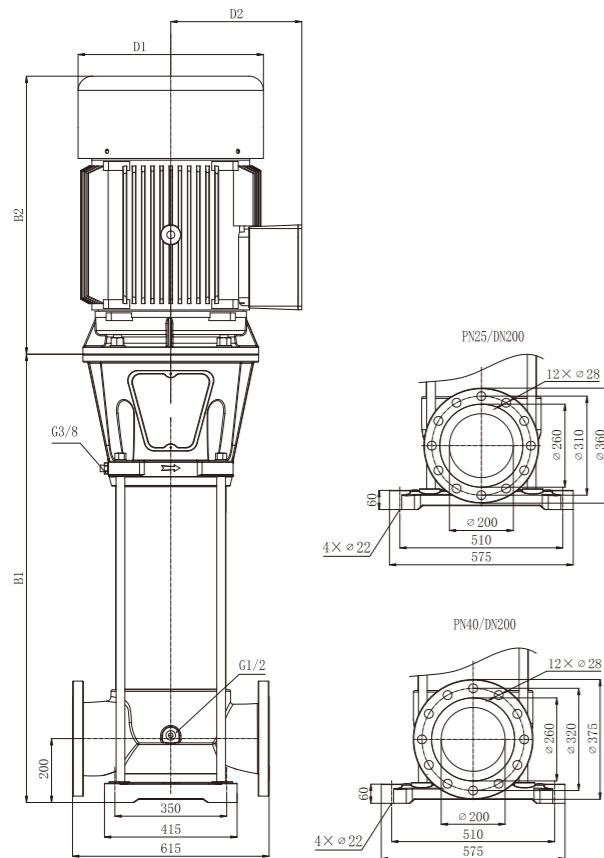
Performance Range

Model	Motor Power (kW)	Q (m³/h)	H (m)													
			80	90	100	110	120	130	140	150	160	170	180	190	200	
160-10-1	11		29	28	27	26	25	23	21	20	18	16	14	11	8	
160-10	15		35	34	33	32	31	30	29	28	27	24	21	19	16	
160-20-2	22		58	56	54	51	48	45	42	39	35	31	27	22	17	
160-20-1	30		64	62	60	58	56	53	50	48	45	40	35	30	24	
160-20	30		71	68	67	66	64	61	58	55	52	48	44	39	34	
160-30-2	37		93	91	89	85	81	77	72	67	61	55	49	43	37	
160-30-1	45		100	96	94	92	89	84	79	75	70	64	58	50	42	
160-30	45		107	103	101	99	96	93	90	85	79	73	66	58	50	
160-40-2	55		129	124	121	117	112	106	100	94	87	79	71	61	51	
160-40-1	55		136	133	130	126	122	117	112	105	98	90	81	70	60	
160-40	75		142	137	134	131	128	123	118	112	105	97	88	78	67	
160-50-2	75		166	163	159	154	148	142	135	127	118	108	96	83	70	
160-50	75		175	173	171	168	164	158	151	142	133	122	111	97	83	
160-60	90		212	209	205	201	196	190	181	171	159	147	133	115	98	
160-70	110		247	244	241	236	231	222	212	200	188	171	154	135	115	
160-80-2	110		272	267	262	256	249	238	226	213	198	180	161	141	120	

Curves



Dimensions and Weights

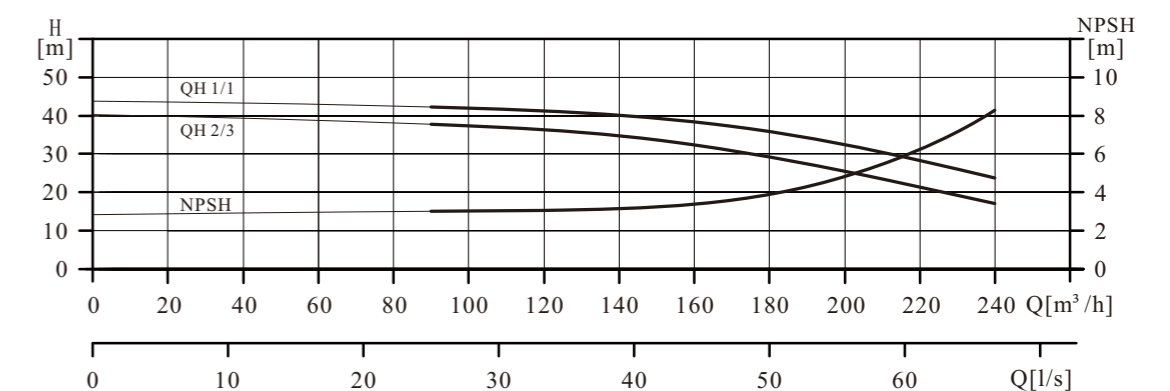
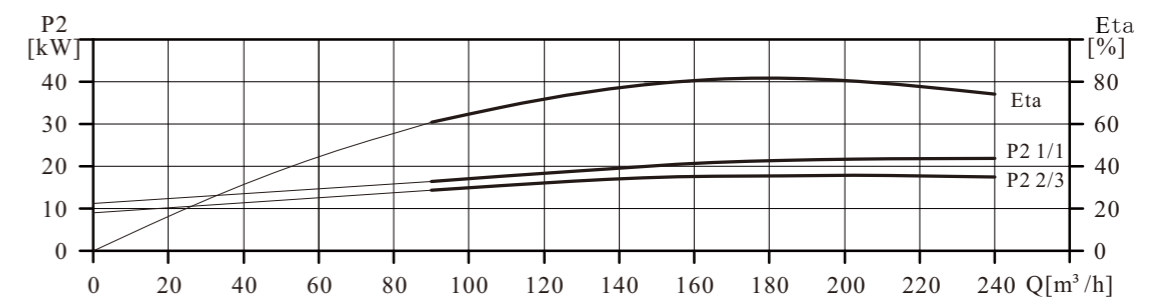
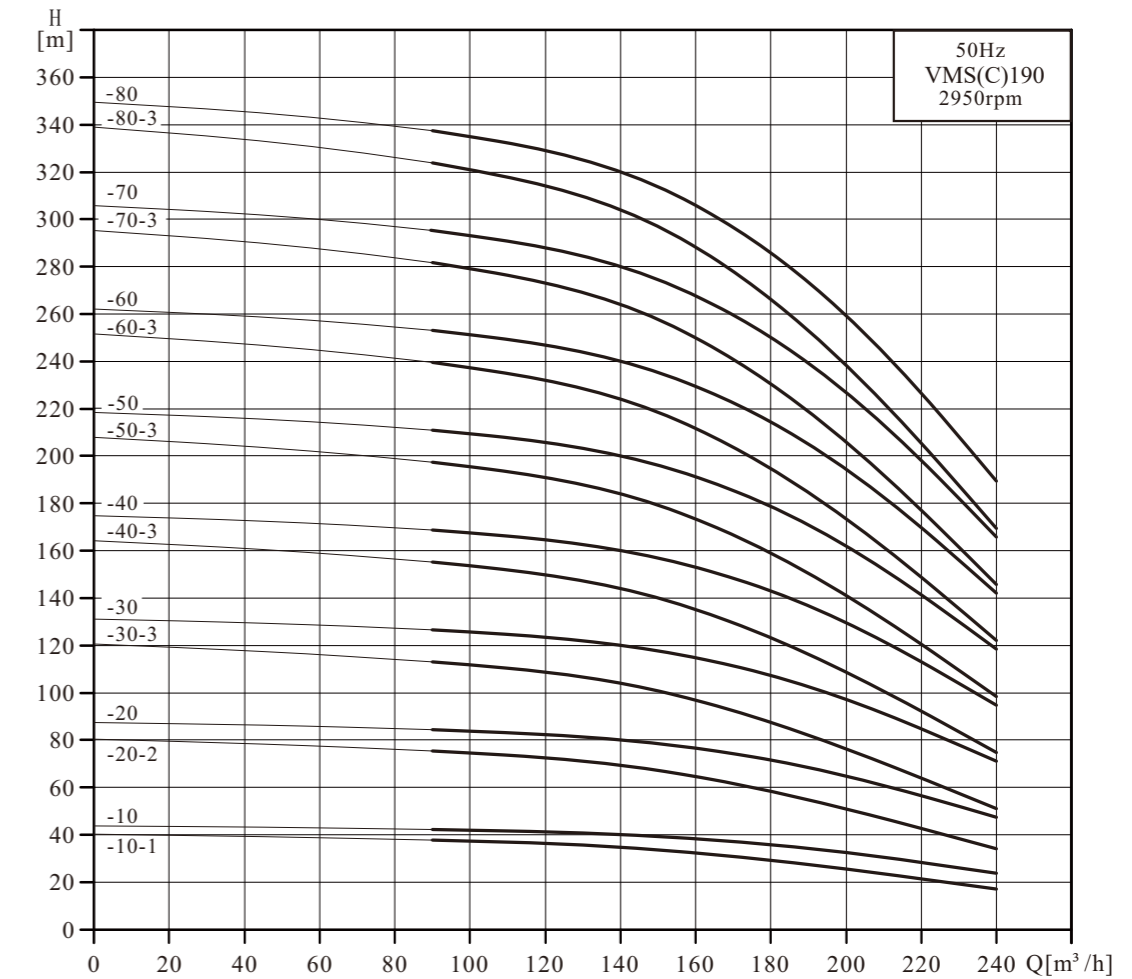


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
190-10-1	861	640	1501	350	260	329
190-10	861	670	1531	360	285	362
190-20-2	989	670	1659	360	285	463
190-20	989	740	1729	460	340	533
190-30-3	1147	820	1967	550	370	659
190-30	1147	870	2017	580	410	774
190-40-3	1275	870	2145	580	410	790
190-40	1275	920	2195	580	410	837
190-50-3	1403	1060	2463	660	550	1249
190-50	1403	1060	2463	660	550	1250
190-60-3	1531	1225	2756	660	550	1301
190-60	1531	1225	2756	660	550	1302
190-70-3	1659	1225	2884	660	550	1379
190-70	1659	1225	2884	660	550	1380
190-80-3	1787	1380	3167	660	550	1491
190-80	1787	1380	3167	660	550	1492

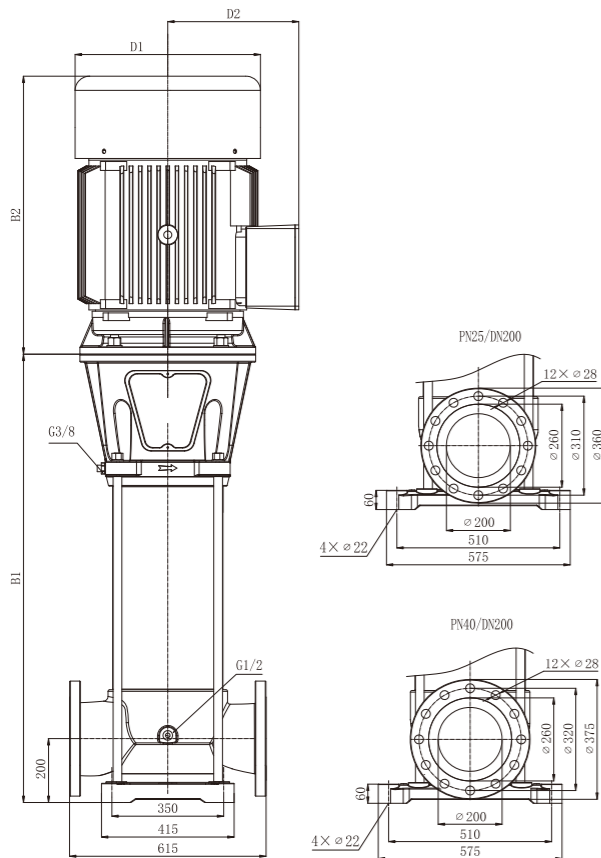
Performance Range

Model	Motor Power (kW)	Q (m ³ /h)	H (m)																			
			90	120	140	160	180	190	200	220	240											
190-10-1	18.5		38	36	35	33	29	27	25	21	17											
190-10	22		42	41	40	38	36	34	32	28	24											
190-20-2	37		75	72	69	65	59	55	51	42	34											
190-20	45		84	82	80	76	71	68	65	56	47											
190-30-3	55		113	109	104	98	88	82	76	64	51											
190-30	75		127	124	120	114	107	103	97	84	71											
190-40-3	75		155	150	144	136	124	116	108	92	75											
190-40	90		169	165	160	152	143	137	129	112	95											
190-50-3	110		197	191	184	174	159	150	141	120	98											
190-50	110		211	206	200	190	178	171	162	140	118											
190-60-3	132		240	232	224	212	195	185	173	148	122											
190-60	132		253	247	240	228	214	205	194	168	142											
190-70-3	160		282	273	264	250	231	219	205	176	146											
190-70	160		295	288	280	266	250	239	226	196	166											
190-80-3	200		324	314	304	288	266	253	238	204	169											
190-80	200		337	329	320	304	285	273	259	224	189											

Curves



Dimensions and Weights

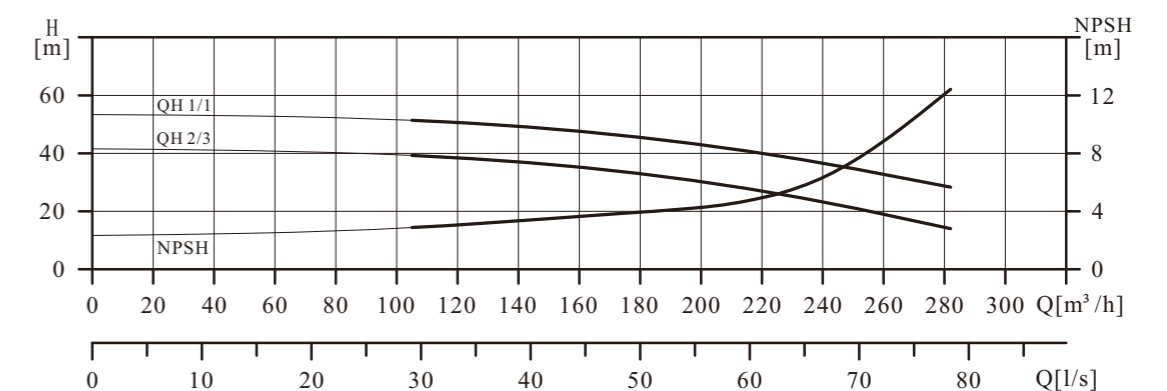
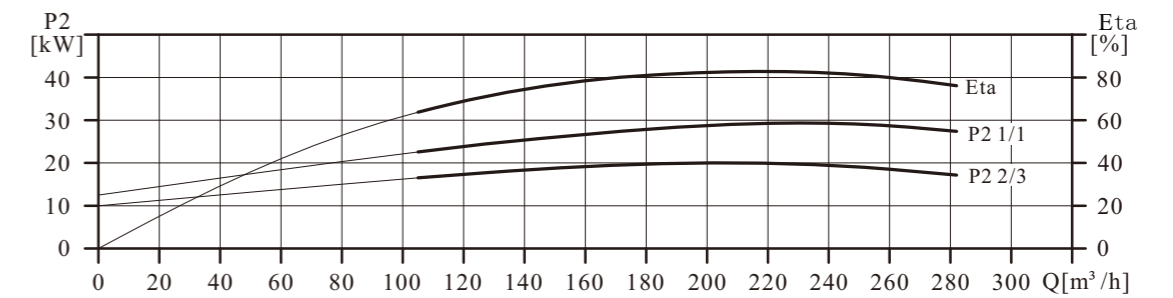
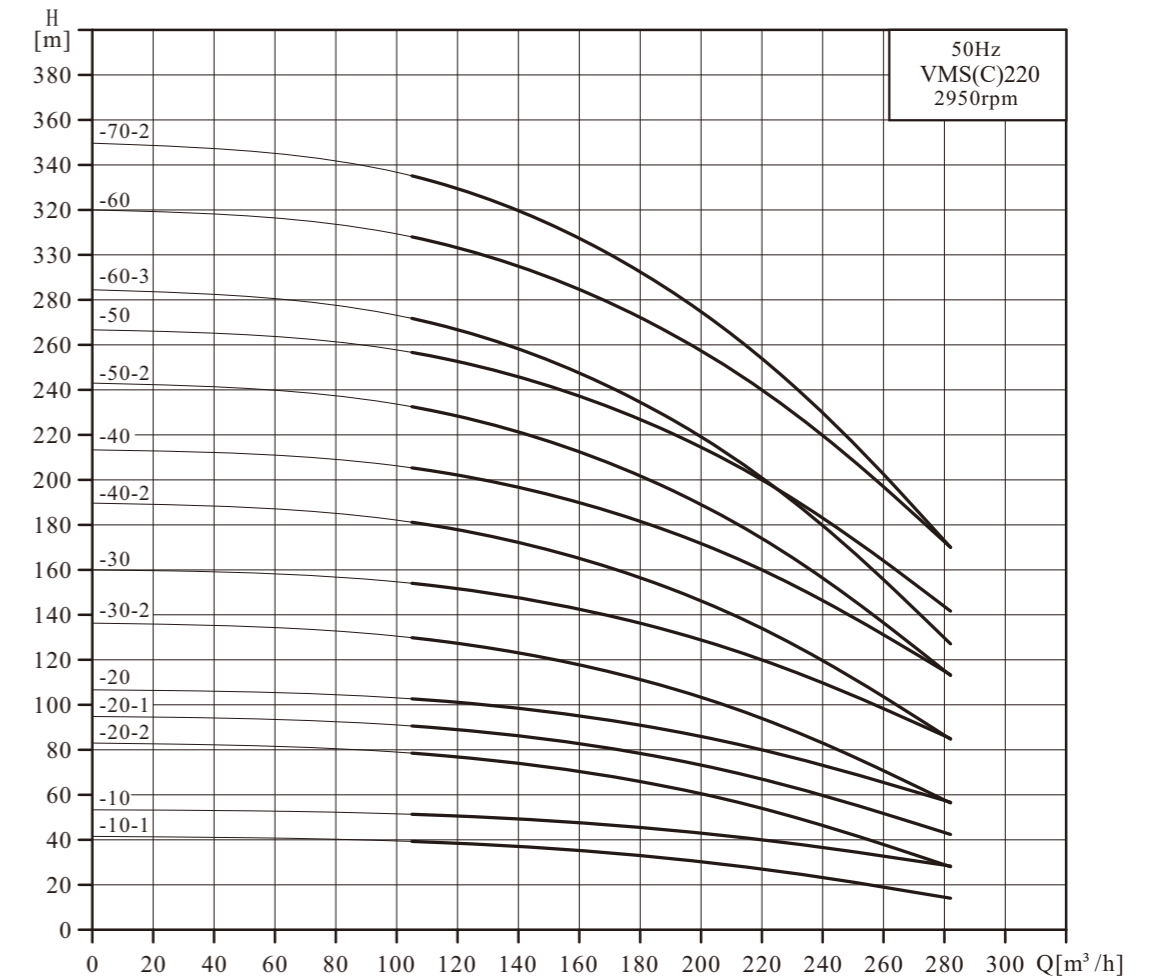


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
220-10-1	861	670	1531	360	285	361
220-10	861	715	1576	400	310	446
220-20-2	989	740	1729	460	340	533
220-20-1	1019	820	1839	550	370	630
220-20	1019	870	1889	580	410	746
220-30-2	1147	870	2017	580	410	774
220-30	1147	920	2067	580	410	821
220-40-2	1275	1060	2335	660	550	1233
220-40	1275	1225	2500	660	550	1269
220-50-2	1403	1225	2628	660	550	1286
220-50	1403	1225	2628	660	550	1347
220-60-3	1531	1225	2756	660	550	1364
220-60	1531	1380	2911	660	550	1460
220-70-2	1659	1380	3039	660	550	1477

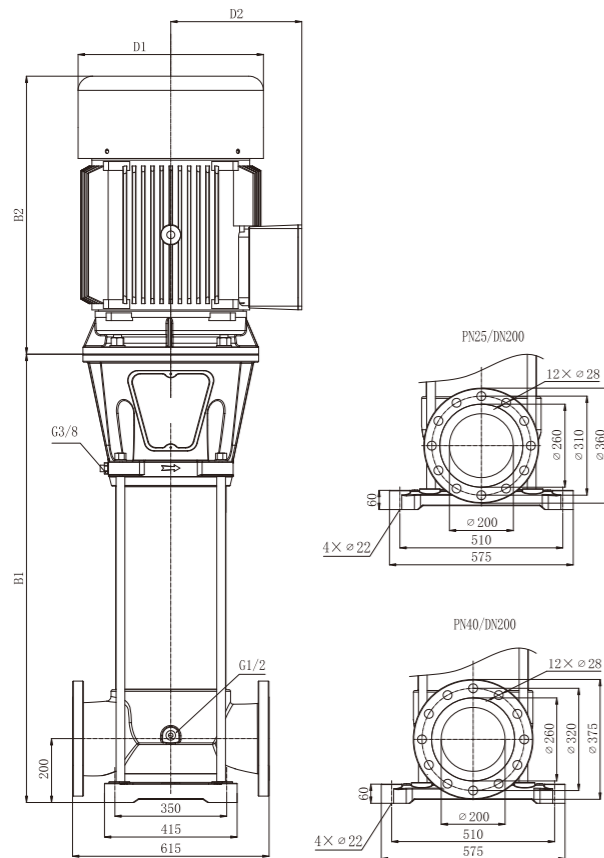
Performance Range

Model	Motor Power (kW)	Q (m ³ /h)	H (m)												
			105	120	140	160	180	200	220	240	260	280	282		
220-10-1	22		39	38	37	35	33	30	27	23	19	15	14		
220-10	37		51	50	49	48	46	43	40	37	33	29	28		
220-20-2	45		79	77	74	70	66	60	54	46	38	29	28		
220-20-1	55		91	89	86	83	79	73	67	60	52	44	42		
220-20	75		103	101	98	95	91	87	80	73	66	58	57		
220-30-2	75		130	127	123	118	112	103	94	83	71	58	56		
220-30	90		154	151	147	143	137	130	120	110	99	87	85		
220-40-2	110		181	177	172	165	157	147	134	119	104	87	85		
220-40	132		205	201	196	191	183	173	160	147	132	116	113		
220-50-2	132		233	228	221	213	203	190	174	156	137	116	113		
220-50	160		257	252	245	238	228	217	200	183	165	145	142		
220-60-3	160		272	266	258	248	236	220	201	179	156	131	127		
220-60	200		308	302	294	286	274	260	240	220	198	174	170		
220-70-2	200		335	328	319	308	294	277	254	229	203	174	170		

Curves



Dimensions and Weights

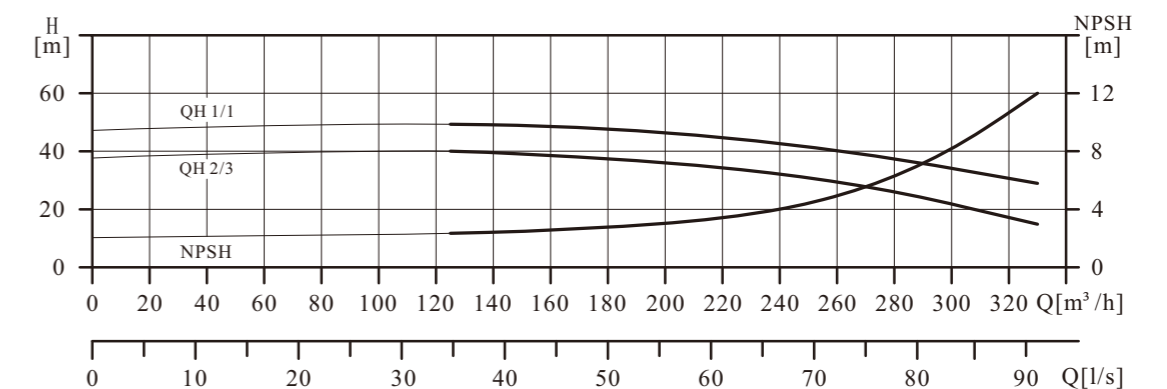
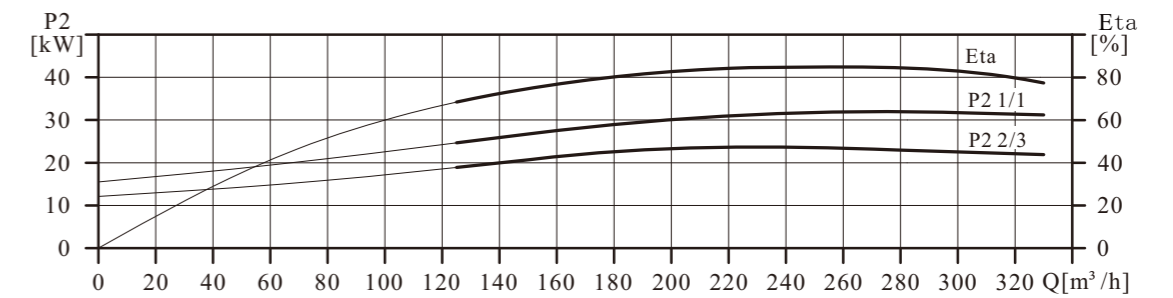
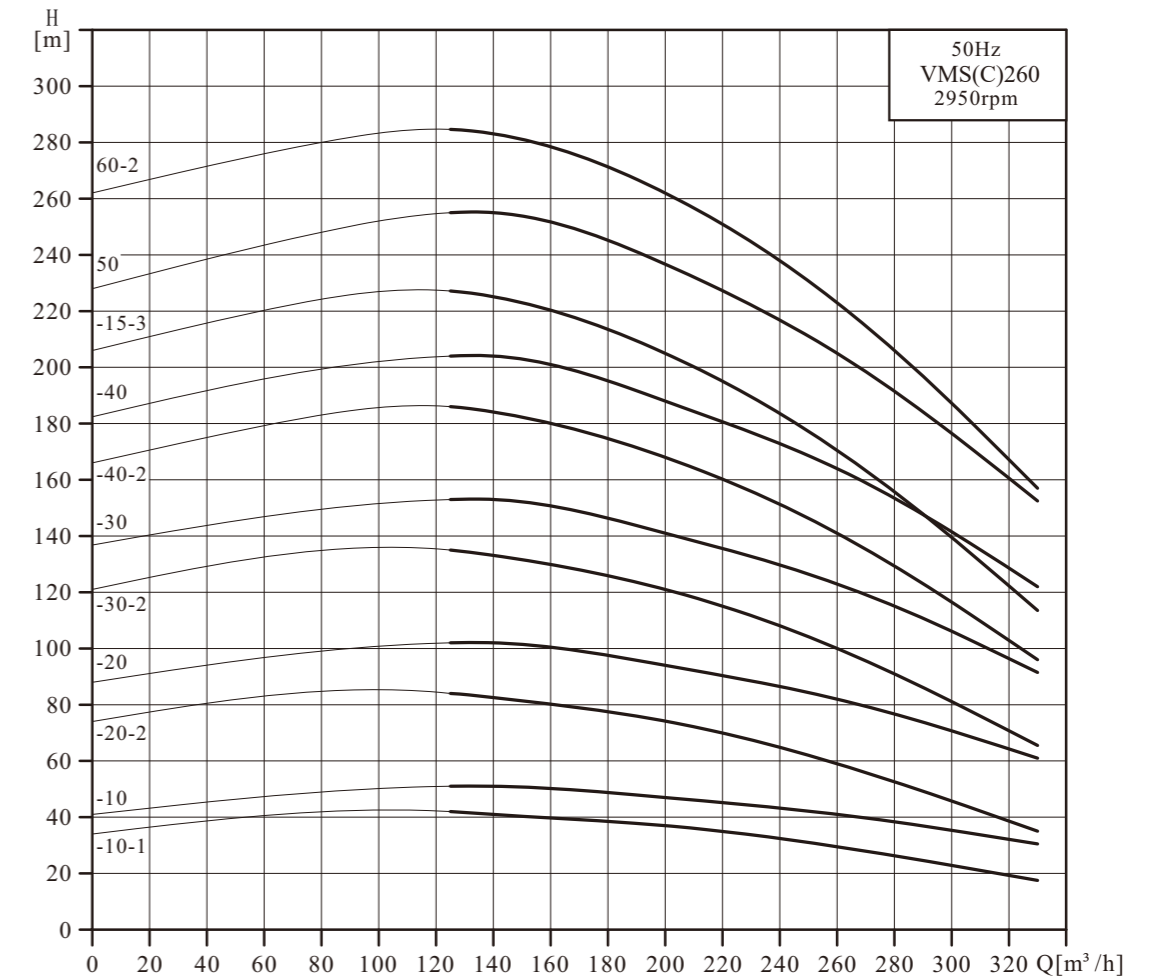


Model	Dimensions (mm)					Wt. (kg)
	B1	B2	B1+B2	D1	D2	
260-10-1	876	715	1591	400	310	433
260-10	876	740	1616	460	340	516
260-20-2	1039	820	1859	550	370	633
260-20	1039	870	1909	580	410	748
260-30-2	1172	920	2092	580	410	823
260-30	1172	1060	2232	660	550	1219
260-40-2	1305	1225	2530	660	550	1272
260-40	1305	1225	2530	660	550	1333
260-50-3	1438	1225	2663	660	550	1351
260-50	1438	1380	2818	660	550	1447
260-60-2	1571	1380	2951	660	550	1465

Performance Range

Model	Motor Power (kW)	Q (m ³ /h)	H (m)												
			125	140	160	180	200	220	240	260	280	300	320	330	
260-10-1	30		42	41	40	38.5	37	34.5	32	29.5	26.5	23	19.5	17.5	
260-10	45		51	51	50	48.5	47	45	43	41	38	35	32	30.5	
260-20-2	55		84	82	80	77	74	69	64	59	53	46	39	35	
260-20	75		102	102	100	97	94	90	86	82	76	70	64	61	
260-30-2	90		135	133	130	125.5	121	114	107	100	91	81	71	65.5	
260-30	110		153	153	150	145.5	141	135	129	123	114	105	96	91.5	
260-40-2	132		186	184	180	174	168	159	150	141	129	116	103	96	
260-40	160		204	204	200	194	188	180	172	164	152	140	128	122	
260-50-3	160		228	225	220	212.5	205	193.5	182	170.5	155.5	139	122.5	113.5	
260-50	200		255	255	250	242.5	235	225	215	205	190	175	160	152.5	
260-60-2	200		285	283	278	271	262	249	236	223	205	186	167	157	

Curves



List of pumped liquids

A number of typical liquids are listed below.

Other pump versions may be applicable, but those stated in the list are considered to be the best choices.

The table is intended as a general guide only, and cannot replace actual testing of the pumped liquids and pump materials under specific working conditions.

Pumped Liquids List	Additional Information	VMC(Cast iron)			VMS(St. St.)		
		EPDM	VITON	NBR	EPDM	VITON	NBR
Acetic Acid, CH ₃ COOH	5%,20°C				√		
Benzoic acid, C ₆ H ₅ COOH	0.5%,20°C					√	
Calcium hydroxide, Ca(OH) ₂	20%,40°C				√		
Chromic acid, H ₂ CrO ₄	1%,20°C						√
Copper sulfate, CuSO ₄	10%,50°C						√
Corn oil	100%,80°C					√	
Ethanol (ethyl alcohol), C ₂ H ₅ OH	100%,20°C		√				
Ethylene glycol, HOCH ₂ CH ₂ OH	50%,50°C				√		
Glycerine (glycerol), OHCH ₂ CH(OH)CH ₂ OH	50%,50°C						√
Isopropyl alcohol CH ₃ CHOHCH ₃	100%,20°C			√			
Lactic acid, CH ₃ CH(OH)COOH	100%,20°C					√	
Methanol (methyl alcohol), CH ₃ OH	100%,20°C			√			
Petrol	80°C						√
Oxalic acid, (COOH) ₂	1%,20°C				√		
Phosphoric acid, H ₃ PO ₄	20%,20°C				√		
Potassium carbonate, K ₂ CO ₃	20%,50°C					√	
Potassium permanganate KMnO ₄	5%,20°C				√		
Sodium bicarbonate, NaHCO ₃	10%,60°C					√	
Sodium nitrate, NaNO ₃	10%,60°C					√	
Sodium phosphate, Na ₃ SO ₄	10%,60°C					√	
Sodium sulfate, Na ₂ SO ₄	10%,60°C					√	
Citric acid, HOC(CH ₂ CO ₂ H) ₂ COOH	20%,50°C				√		
Salicylic acid, C ₆ H ₄ (OH)COOH	0.1%,20°C				√		
Sodium hydroxide, NaOH	20%,50°C	√					
Ammonia	30%,80°C				√		
Calcium acetate, Ca(CH ₃ COO) ₂	30%,50°C					√	