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泵系统应用工程项目

产品概述

APV 泵为非自吸立式多级离心泵，其电机为标准结构型式，通过夹壳式联轴器和泵相联接。泵由进出水段、泵头、流道腔组件和耐压筒等组成，通过位于进出水段和泵头间的拉杆紧固。进出水段上的泵进出口在同一水平线上，且管径相同，便于现场安装。

APV 泵具有不同的规格和级数，从而满足用户所需的流量和压力。

APV 泵是一种多功能产品，用途十分广泛，可以输送从饮用水到工业液体的多种介质。

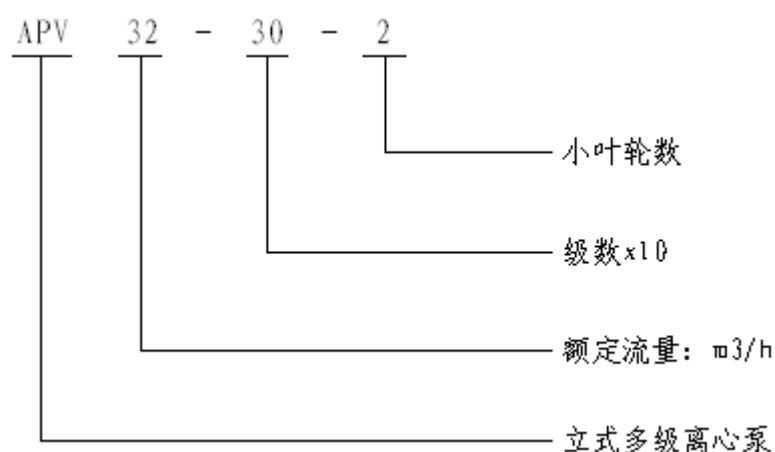
Product introduction

APV are non-self priming vertical multistage centrifugal pumps, and motors which connected to pump by shell clamped couplings are standard motors. Pump is composed of inlet-and outlet section, pump head, flow assemblies and pressure-resistant cylinder and is fixed by tie rods between inlet-and outlet section and pump head. The inlet and outlet are located at the pump bottom at the same plane and the diameter is the same which makes easy for field installation.

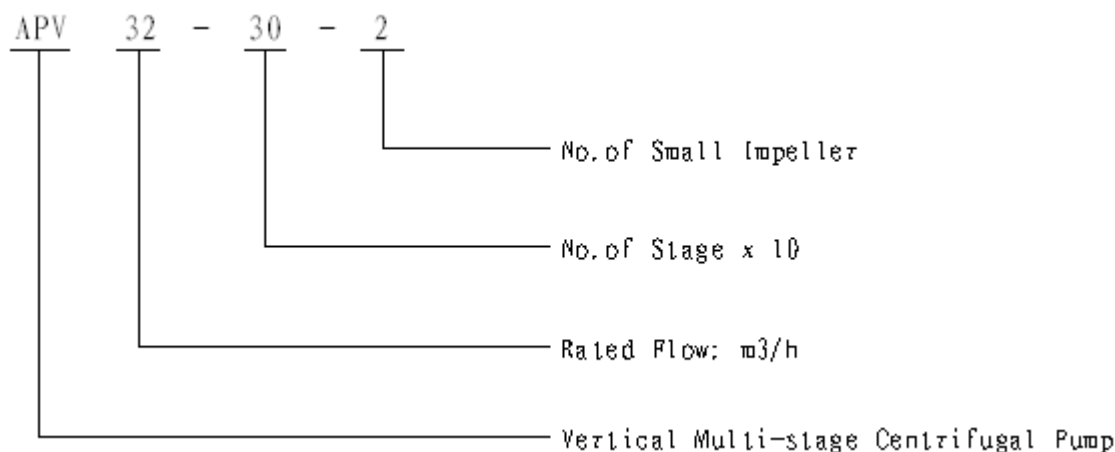
APV have different range and stages, so can meet flow and head performance of different user.

APV is a kind of multifunctional products, and has a wide range of application. It can be used to convey various medium from clean water to industrial liquid at different temperature and with different flow and pressure.

型号说明/Model Explanation



Model Explanation



应用

- 供水：水厂水过滤与输送、水厂分区送水、主管网增压、高层建筑增压
- 工业增压：流程水系统、清洗系统、高压冲洗系统、消防系统
- 工业液体输送：冷却和空调系统、锅炉给水和冷凝系统、酸、碱和盐
- 水处理：超滤系统、反渗透系统、蒸馏系统、分离器、游泳池
- 灌溉：农田灌溉、喷灌、滴灌

Application

- Water supply: Water filter and transport in Waterworks, boosting of main pipeline, boosting in high-rise buildings.
- Industrial boosting: Process flow water system, cleaning system, high-pressure washing system, fire fighting system.
- Industrial liquid conveying: Cooling and air-condition system, boiler water supply and condensing system, acids, alkali and salts.
- Water treatment: Ultra filtration system, reverse osmosis system, distillation system, separator, swimming pool.
- Irrigation: Farmland irrigation, spray irrigation, dripping irrigation.

运行条件

流量：0.4~110m³/h

扬程：5~300m

液体温度：常温型：-15℃至+70℃

热水型：+70℃至+120℃

环境温度：最高+40℃

海拔：最高 1000m

Operating Limits

Flow range: 0.4~110m³/h

Head range: 5~300m

Liquid temperature: Normal temperature type: -15℃~+70℃

Hot water type: +70℃~+120℃

Ambient temperature: up to +40℃

Attitude: up to 1000m

产品特点

- 立式管道结构设计，占地面积小且便于现场安装；
- 法兰连接、管螺纹连接、卡套式连接等多种连接方式可供选择；
- 集装式机械密封，多种密封材质可供用户选择；
- 加长联轴器设计，无须移动电机即可更换机械密封；
- 优异的水力性能；
- 泵轴材料为 304 或 316 不锈钢；
进出水段多种材料可供选择（铸铁、304 不锈钢、316 不锈钢）；
- 根据需要可配置智能保护器，对泵干转、缺相、过载等进行有效保护；
- 电机为全封闭、风冷式 2 极标准高效电机：

防护等级：IP55

绝缘等级：F

标准电压：50Hz

1×220-230/240V

3×200-220/346-380V

3×200-240/380-415V

3×380-415V

Product Character

- Vertical piping structure design, lower space and easy for field installation;
- Various connection types to select for user, such as Flange connection, Pipe thread connection, Cutting ferrule joint connection etc.;
- Cartridge mechanical seal, various material available on request;
- Extra-long coupling design, change mechanical seal no need to remove motor;
- Excellent hydraulic performance;
- Material of pump shaft is AISI304 or AISI316 stainless steel;
Supply various materials for selection for inlet and outlet section, such as cast iron, AISI304 stainless steel, AISI316 stainless steel etc.;
- Intelligent protection available on request, prevent effectively pump from dry-running, out-of-phase and overload;
- Standard high efficiency two-pole asynchronous electric motor with enclosed stator and external ventilation:

Protection level: IP55

Insulation class: F

Standard voltage: 50Hz

1×220-230/240V

3×200-220/346-380V

3×200-240/380-415V

3×380-415V

最大进口压力

下表为最大进口压力，但是实际的进口压力+泵闭阀压力必须低于最大允许工作压力。

Max. Suction pressure

The maximum suction pressure is shown in the table below. But the actual suction pressure plus the valve-closed pressure of pump shall be lower than the max. allowable operating pressure.

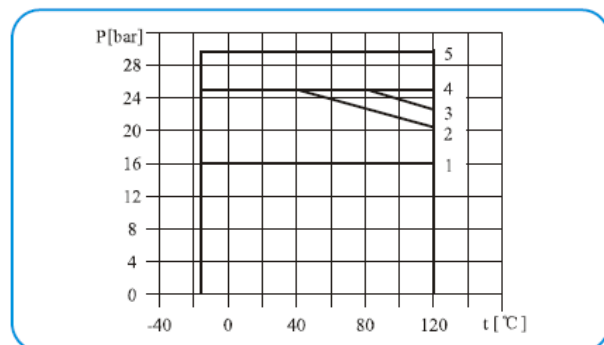
型号 Model	最大进口压力 (Bar) Max. suction pressure
APV1	
1-20~1-80	6
1-90~1-360	10
APV2	
2-20	6
2-30~2-110	10
2-130~2-260	15
APV3	
3-20~3-50	6
3-60~3-290	10
3-310~3-360	15
APV4	
4-20	6
4-30~4-100	10
4-120~4-220	15
APV8	
8-20/1~8-60	6
8-80~8-200	10
APV16	
16-20~16-30	6
16-40~16-160	10
APV20	
20-10~20-30	6
20-40~20-170	10
APV32	
32-10-1~32-20-2	3
32-20~32-40	4
32-50-2~32-100	10
32-110-2~32-140	15
APV42	
42-10-1	3
42-10~42-20	4
42-30-2~42-50	10
42-60-2~42-130-2	15
APV65	
65-10-1~65-20-2	4
65-20-1~65-30	10
65-40-2~65-80-1	15
APV85	
85-10-1~85-10	4
85-20-2~85-30-2	40
85-30-1~85-60	15

最大工作压力/Max. Operating pressure

型号 Model	曲线号 Curve number
APV1	
1-20~1-230	1
1-250~1-360	2
APV2	
2-20~2-150	1
2-180~2-260	2
APV3	
3-20~3-230	1
3-250~3-360	2
APV4	
4-20~4-160	1
4-190~4-220	2
APV8	
8-20/1~8-120	1
8-140~8-200	3
APV16	
16-20~16-80	1
16-100~16-160	3
APV20	
20-10~20-80	1
20-100~20-170	3
APV32	
32-10-1~32-70	1
32-80-2~32-120	4
32-130~32-140	5
APV42	
42-10-1~42-60	1
42-70-2~42-90	4
42-100-2~42-130-2	5
APV65	
65-10-1~65-50	1
65-60-2~65-80-1	4
APV85	
85-10-1~85-50-2	1
85-50~85-60	4

下图表示压力和温度的极限，压力和温度须在所示范围内。

The following figure shows the limitation of pressure and temperature, which shall be kept within the range as shown in the figure.



最大吸上高度

如果泵的进口压力低于输送液体的汽化压力，可能发生气蚀，为避免气蚀，确保泵进口侧有一最小压力，最大吸上高度 H (m) 应低于下面的计算值（负值为倒灌），否则，泵将不能正常工作。

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

其中：

P_b =大气压力 (bar) (大气压力可设定为 1bar)

闭式系统中， P_b 为系统压力 (bar)

$NPSH$ =净正吸头 (m) (可从 $NPSH$ 曲线上泵可能的最大流量处读取)

H_f =入口的管路损失 (m)

H_v =蒸汽压力 (m)

H_s =安全余量=最小 0.5m 水头

Maximum suction up height

If the pump inlet pressure is lower than the steam pressure pumped liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the side of pump must be guaranteed. The maximum suction head

H should be lower than the following calculated value. If not, pump should not work normally.

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

Here:

P_b =atmosphere pressure (bar) (can be set as 1bar)

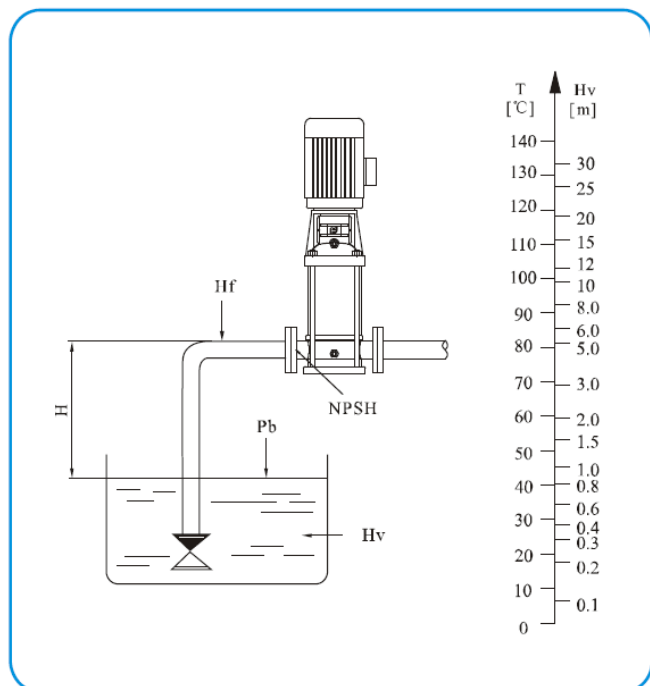
In a closed system, P_b means system pressure (bar).

$NPSH$ =Net positive suction head (m) (It can be read out from the point of possible max. flow shown on $NPSH$ curve)

H_f =Pipeline loss at he inlet (m)

H_v =Liquid saturated steam pressure (m)

H_s =Safety margin=Minimum 0.5m



订货须知

- 提供所需工况点的流量、扬程参数;
- 提供输送介质的种类、温度 (若为非水介质, 还须提供介质密度、浓度、粘度等);
- 提供泵的进口压力;
- 用户有特殊要求, 请在订货时提出。

Notice of ordering

- Offer the parameters point of use, such as flow rate and head;
- Offer pumping medium, temperature(if not clean water, should offer density, thickness and viscosity of pumping medium);
- Offer pump suction pressure;
- If having some special requirements, please mention when ordering。

供货范围

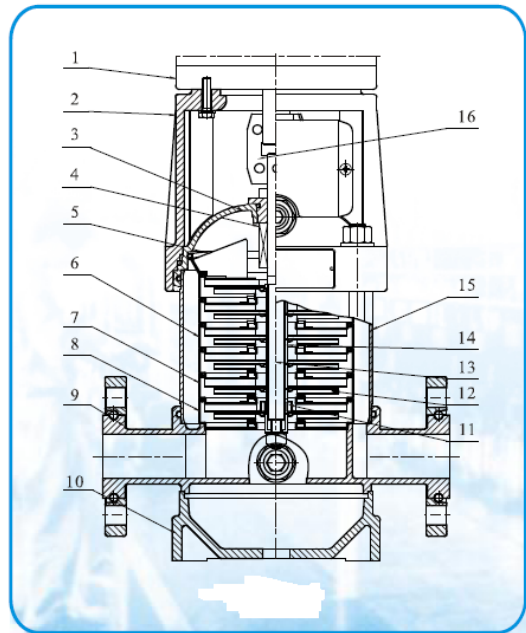
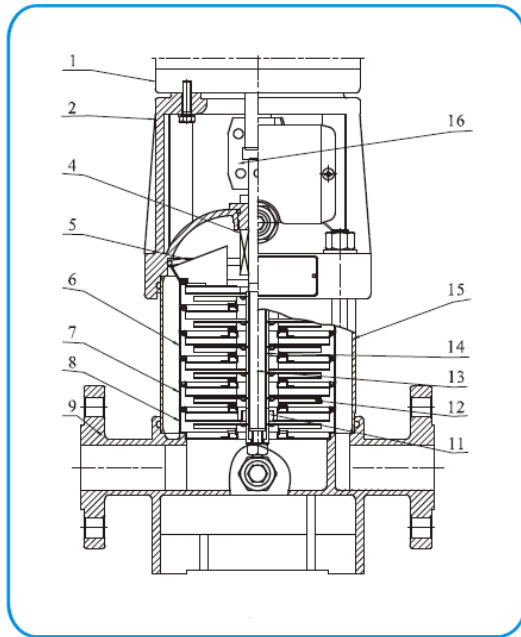
- 泵和电动机;
- 联轴器和联轴器罩;
- 安装使用说明书。

Scope of supply

- Pump and electric motor;
- Coupling and coupling guard;
- Instruction of pump installation and maintenance。

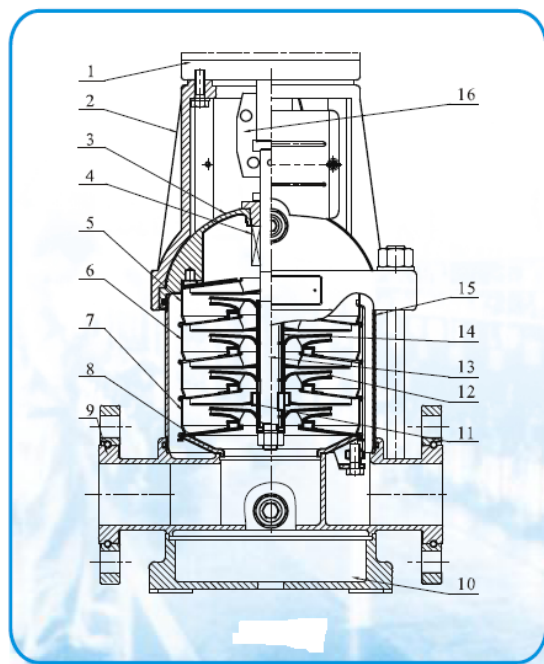
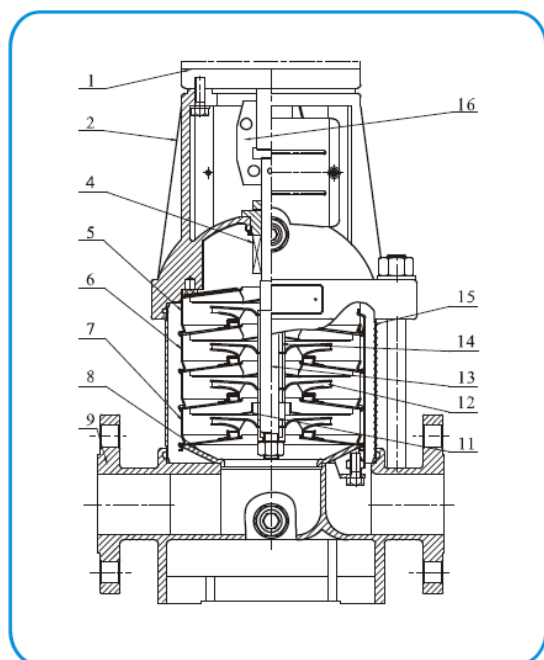
结构与材料/ Structures and materials

截面图/Section drawing APV1,2,3,4 材料/Material APV1,2,3,4



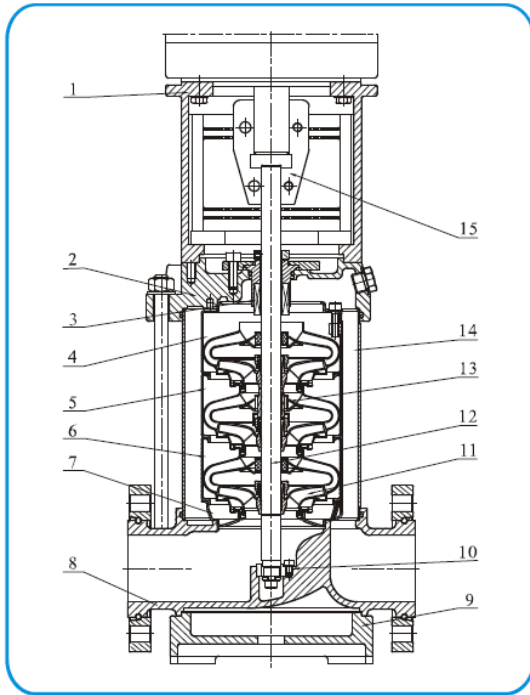
序号 NO.	名称/Name	材料/Material	AISI/ASTM
1	电机 Electric motor		
2	泵头 Pump head	铸铁 Cast iron	ASTM25B
3	泵头衬里 Seal base	不锈钢 Stainless steel	AISI 304
4	机械密封 Mechanical seal		
5	出水导叶 Water-out guide vane	不锈钢 Stainless steel	AISI 304
6	导叶 Guide vane	不锈钢 Stainless steel	AISI 304
7	支撑导叶 Support guide vane	不锈钢 Stainless steel	AISI 304
8	导流器 Inducer	不锈钢 Stainless steel	AISI 304
9	进出水段 Inlet and outlet section	不锈钢 Stainless steel	AISI 304
10	底座 Base frame	铸铁 Cast iron	ASTM25B
11	轴承 Bearing	碳化钨 Tungsten carbide	
12	叶轮 Impeller	不锈钢 Stainless steel	AISI 304
13	轴 Shaft	不锈钢 Stainless steel	AISI 304 AISI 316
14	叶轮隔套 Spacer	不锈钢 Stainless steel	AISI 304
15	耐压筒 Pressure-resistant cylinder	不锈钢 Stainless steel	AISI 304
16	联轴器 Coupling	碳钢 Carbon steel	

截面图/Section drawing APV8,16,20 材料/Material APV8,16,20



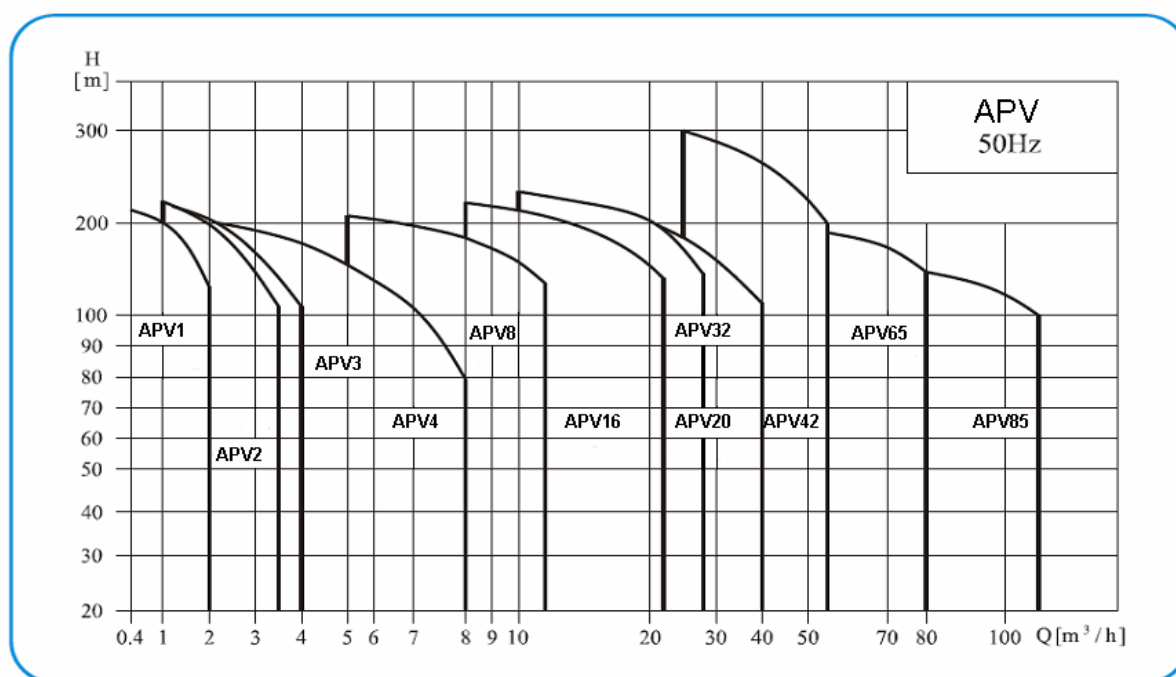
序号 NO.	名称/Name	材料/Material	AISI/ASTM
1	电机 Electric motor		
2	泵头 Pump head	铸铁 Cast iron	ASTM25B
3	泵头衬里 Seal base	不锈钢 Stainless steel	AISI 304
4	机械密封 Mechanical seal		
5	出水导叶 Water-out guide vane	不锈钢 Stainless steel	AISI 304
6	导叶 Guide vane	不锈钢 Stainless steel	AISI 304
7	支撑导叶 Support guide vane	不锈钢 Stainless steel	AISI 304
8	导流器 Inducer	不锈钢 Stainless steel	AISI 304
9	进出水段 Inlet and outlet section	不锈钢 Stainless steel	AISI 304
10	底座 Base frame	铸铁 Cast iron	ASTM25B
11	轴承 Bearing	碳化钨 Tungsten carbide	
12	叶轮 Impeller	不锈钢 Stainless steel	AISI 304
13	轴 Shaft	不锈钢 Stainless steel	AISI 304 AISI 316
14	叶轮隔套 Spacer	不锈钢 Stainless steel	AISI 304
15	耐压筒 Pressure-resistant cylinder	不锈钢 Stainless steel	AISI 304
16	联轴器 Coupling	碳钢 Carbon steel	

截面图/Section drawing APV32,42 材料/Material APV32,42,65,85

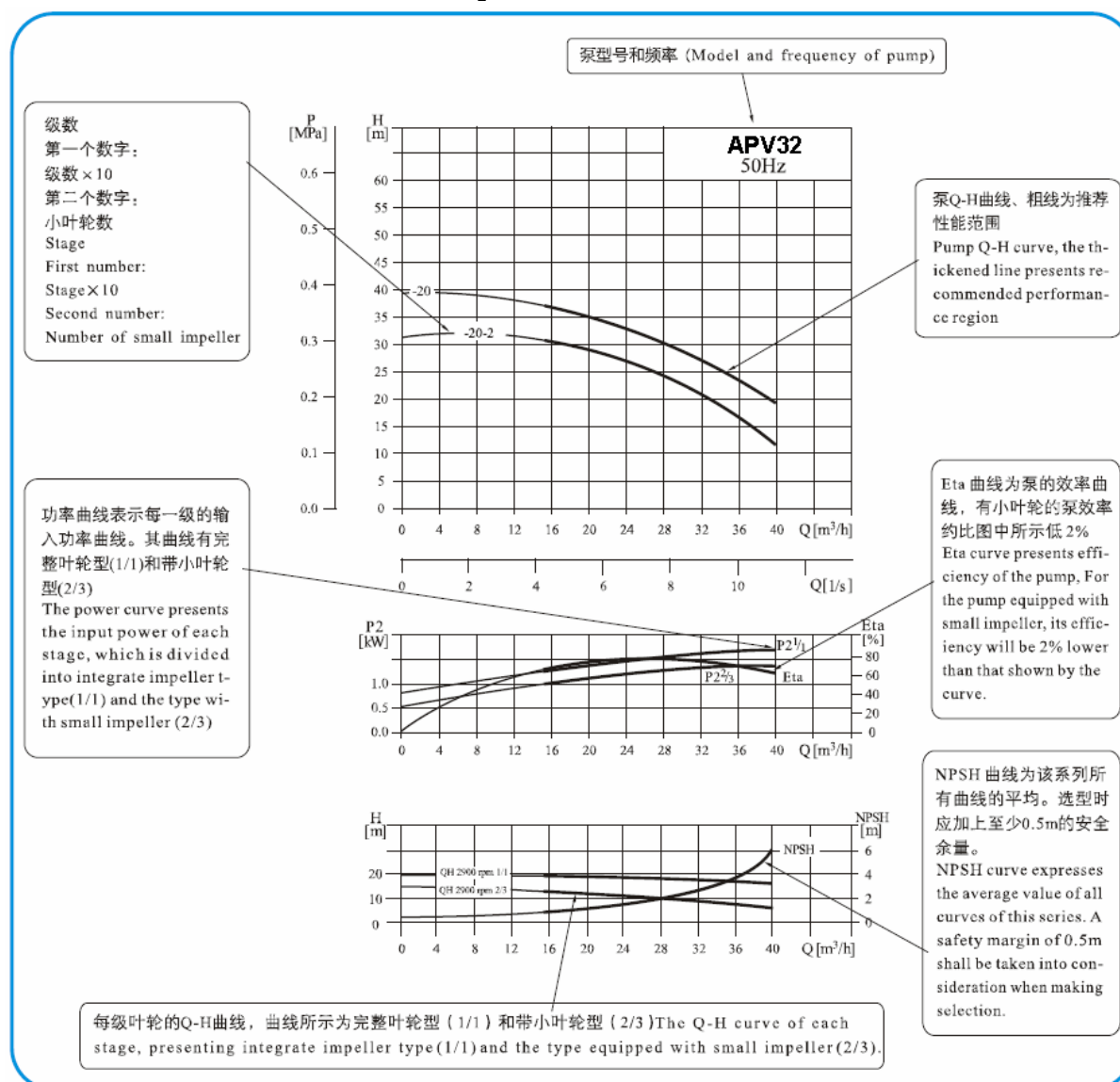


序号 NO.	名称/Name	材料/Material	AISI/ASTM
1	电机 Electric motor		
2	泵头 Pump head	铸铁 Cast iron	ASTM25B
3	泵头衬里 Seal base	不锈钢 Stainless steel	AISI 304
4	机械密封 Mechanical seal		
5	出水导叶 Water-out guide vane	不锈钢 Stainless steel	AISI 304
6	导叶 Guide vane	不锈钢 Stainless steel	AISI 304
7	支撑导叶 Support guide vane	不锈钢 Stainless steel	AISI 304
8	导流器 Inducer	不锈钢 Stainless steel	AISI 304
9	进出水段 Inlet and outlet section	不锈钢 Stainless steel	AISI 304
10	底座 Base frame	铸铁 Cast iron	ASTM25B
11	轴承 Bearing	碳化钨 Tungsten carbide	
12	叶轮 Impeller	不锈钢 Stainless steel	AISI 304
13	轴 Shaft	不锈钢 Stainless steel	AISI 304 AISI 316
14	叶轮隔套 Spacer	不锈钢 Stainless steel	AISI 304
15	耐压筒 Pressure-resistant cylinder	不锈钢 Stainless steel	AISI 304
16	联轴器 Coupling	碳钢 Carbon steel	

型谱图/Performance Range



性能曲线说明/Performance curve explanation



性能曲线

下列说明适用于后面表示的曲线:

- 1、所有曲线都基于电机在恒速 2900rpm 的测量值。
- 2、曲线容差符合 ISO9906 标准。
- 3、测试采用 20℃ 不含空气的水, 运动粘度为 1mm²/s。
- 4、泵的使用参照加粗曲线的性能范围, 以防流量过小产生过热和流量过大使电机过载等。

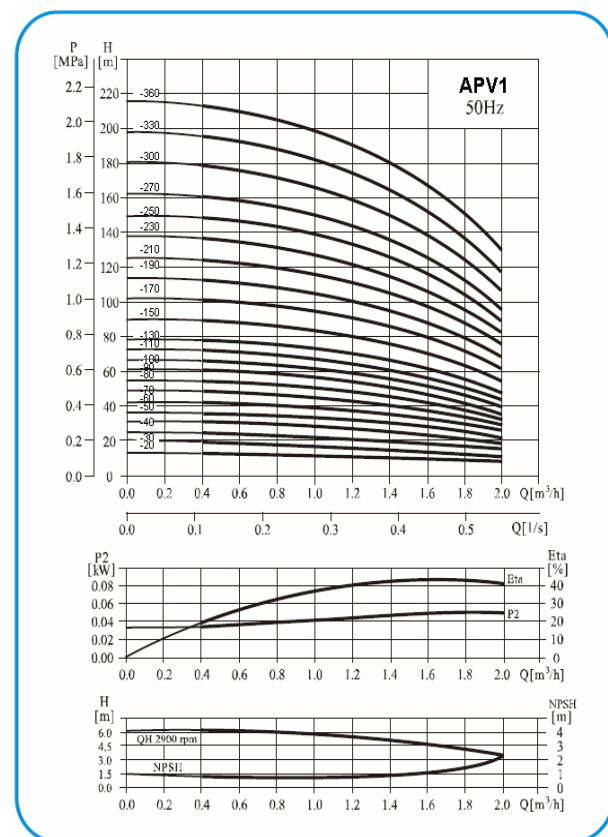
Performance curve

Following descriptions are suitable for performance curves shown below:

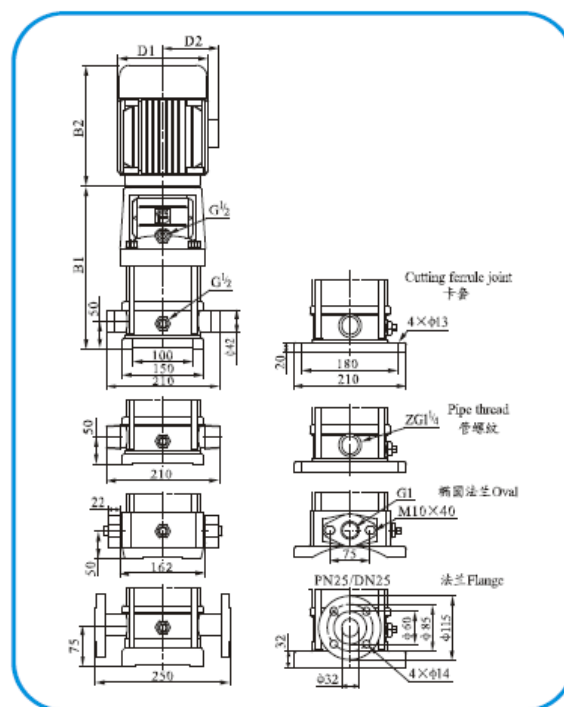
- 1、All the performance curves are based on the measured values of a motor at a constant speed of 2900rpm.
- 2、Curve tolerance in accordance with ISO9906 standard.
- 3、Test is done with 20℃ air-free water, which kinematic viscosity is 1mm²/s.
- 4、The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

技术数据/Technical Data

性能曲线/Performance curve



安装图/Installation sketch



性能表/Performance table

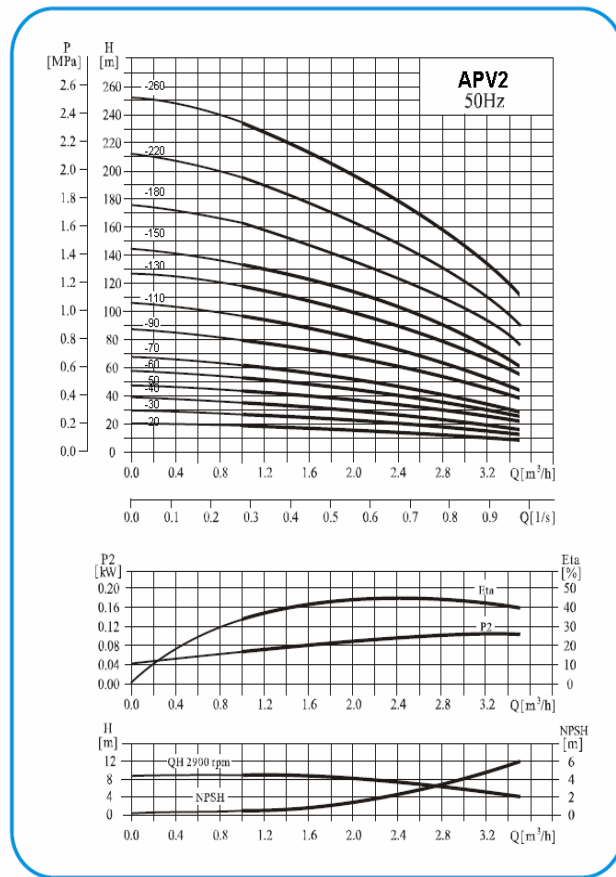
型号 Model	配用电机 (kW)	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
APV1-20	0.37	H (m)	13	12.5	12	11.5	11	10.5	10	9.5	9
APV1-30	0.37		19	18	17.5	17	16.5	16	15	14	12
APV1-40	0.37		24	23.5	23	22.5	21.5	21	19	18	16
APV1-50	0.37		30	29.6	29	28	27	26	24	22	20
APV1-60	0.37		36	35.5	35	33.5	33	31	28	26	23
APV1-70	0.37		42	41	40.5	39	38	36	33	30	27
APV1-80	0.55		48	47	46	45	43	41	38	34	30
APV1-90	0.55		54	53	52	51	49	46	43	39	33
APV1-100	0.55		60	59	58	57	54	51	48	43	36
APV1-110	0.55		66	65	63	61	59	56	52	47	40
APV1-120	0.75		72	71	69	67	64	61	57	51	44
APV1-130	0.75		78	77	75	73	69	66	62	55	47
APV1-150	0.75		89	88	86	84	79	76	71	63	55
APV1-170	1.1		101	99	97	95	89	86	80	71	62
APV1-190	1.1		113	110	108	106	99	96	89	79	69
APV1-210	1.1		124	122	120	117	110	106	98	87	75
APV1-230	1.1		137	133	131	128	121	116	107	96	82
APV1-250	1.5		149	145	143	139	131	126	116	104	89
APV1-270	1.5		161	157	155	150	141	136	125	112	95
APV1-300	1.5		178	175	171	166	157	150	139	124	106
APV1-330	2.2		196	192	188	183	173	165	154	137	118
APV1-360	2.2		214	210	205	200	190	181	169	151	130

尺寸和重量/Size and weight

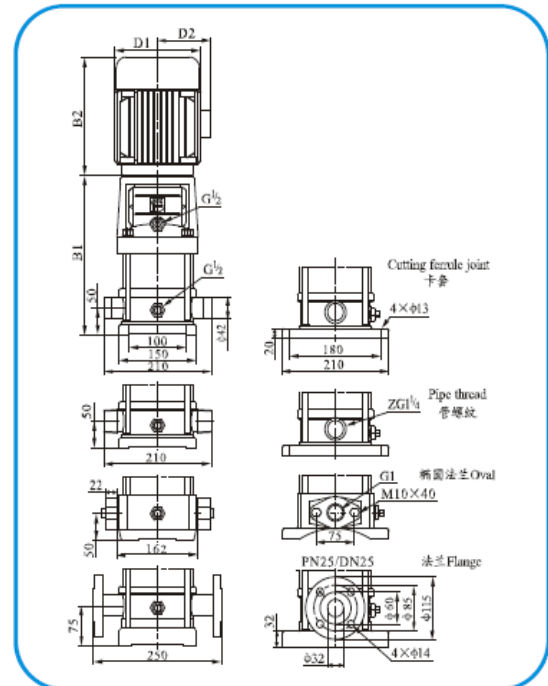
型号 Model	尺寸 (mm) / Size					重量 (kg) Weight
	B1	B2	B1+B2	D1	D2	
APV1-20	233	210	443	148	117	20
APV1-30	251	210	461	148	117	20
APV1-40	269	210	479	148	117	20
APV1-50	287	210	497	148	117	20
APV1-60	305	210	515	148	117	20
APV1-70	323	210	533	148	117	20
APV1-80	341	210	551	148	117	22
APV1-90	359	210	569	148	117	22
APV1-100	377	210	587	148	117	22
APV1-110	395	210	605	148	117	22
APV1-120	423	245	668	170	142	25
APV1-130	441	245	686	170	142	25
APV1-150	477	245	722	170	142	25
APV1-170	513	245	758	170	142	28
APV1-190	549	245	794	170	142	28
APV1-210	585	245	830	170	142	30
APV1-230	621	245	866	170	142	33
APV1-250	667	290	957	190	155	40
APV1-270	703	290	993	190	155	40
APV1-300	757	290	1047	190	155	40
APV1-330	811	290	1101	190	155	45
APV1-360	865	290	1155	190	155	45

注：APV1-250~1-360 无椭圆法兰型管路联接/ Sub-connection of pipeline without oval flange

性能曲线/Performance curve



安装图/Installation sketch



性能表/Performance table

型号 Model	配用电机 (kW)	Q (m³/h)	1	1.2	1.6	2.0	2.4	2.8	3.2	3.5
APV2-20	0.37	H (m)	18	17	16	15	13	12	10	8
APV2-30	0.37		27	26	24	22	20	18	15	12
APV2-40	0.55		36	35	33	30	26	24	20	16
APV2-50	0.55		45	43	40	37	33	30	24	20
APV2-60	0.75		53	52	50	45	40	36	30	24
APV2-70	0.75		63	61	57	52	47	41	35	28
APV2-90	1.1		80	78	73	67	61	54	45	37
APV2-110	1.1		98	95	89	82	73	64	54	44
APV2-130	1.5		116	114	106	98	89	78	65	52
APV2-150	1.5		134	130	123	112	100	90	73	60
APV2-180	2.2		161	157	148	136	121	108	91	76
APV2-220	2.2		197	192	180	165	148	130	110	90
APV2-260	3.0		232	228	214	198	179	158	130	110

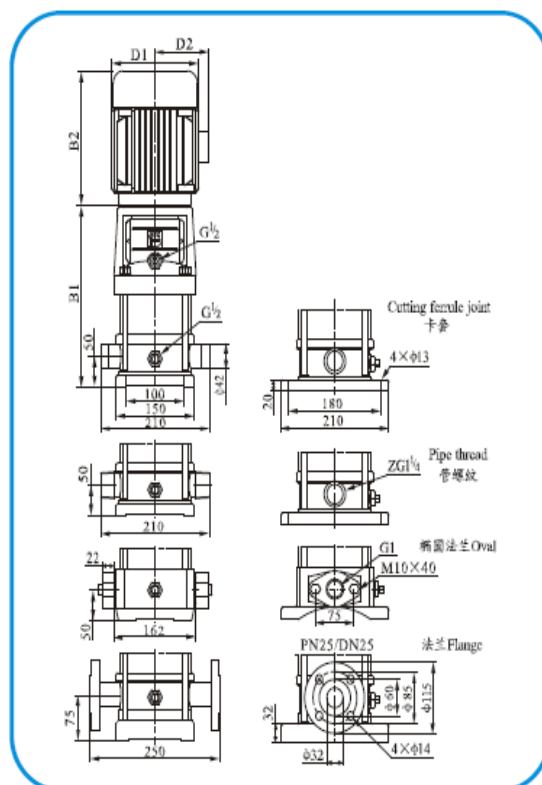
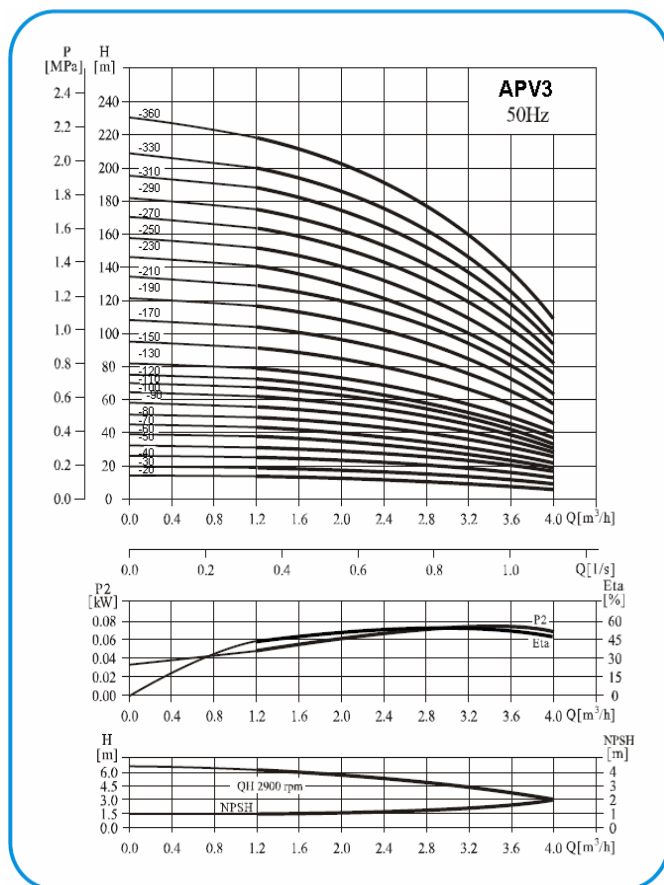
尺寸和重量/Size and weight

型号 Model	尺寸 (mm) / Size					重量 (kg) Weight
	B1	B2	B1+B2	D1	D2	
APV2-20	233	210	443	148	117	20
APV2-30	251	210	461	148	117	20
APV2-40	269	210	479	148	117	20
APV2-50	287	210	497	148	117	20
APV2-60	315	245	560	170	142	25
APV2-70	333	245	578	170	142	25
APV2-90	369	245	614	170	142	30
APV2-110	405	245	650	170	142	30
APV2-130	451	290	741	190	155	35
APV2-150	487	290	777	190	155	35
APV2-180	541	290	831	190	155	40
APV2-220	613	290	903	190	155	45
APV2-260	695	315	1010	197	165	50

注：APV2-180~2-260 无椭圆法兰型管路联接/ Sub-connection of pipeline without oval flange

性能曲线/Performance curve

安装图/Installation sketch



性能表/Performance table

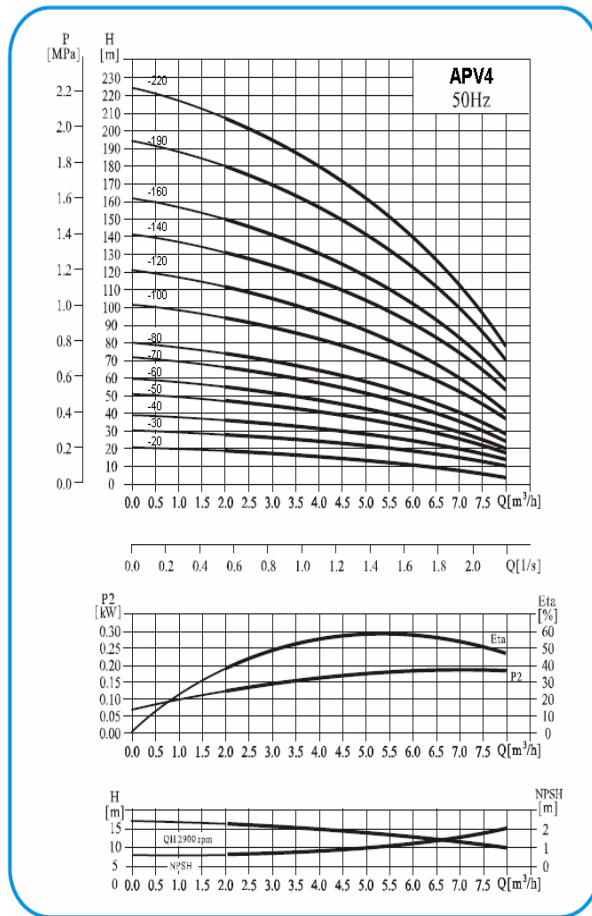
尺寸和重量/Size and weight

型号 Model	配用电机 (kW)	Q (m³/h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
APV3-20	0.37	H (m)	12.5	11.5	11	10.5	10	9	8	7	6
APV3-30	0.37		19	18.5	17.5	16.5	15	14	13	11	9
APV3-40	0.37		25	24	23	21.5	20	19	18	15	12
APV3-50	0.37		31	30	29	27	25	23	22	19	16
APV3-60	0.55		36	35	34	32	30	28	27	23	19
APV3-70	0.55		43	41	39	37	34	32	31	27	22
APV3-80	0.75		49	47	45	43	39	37	35	31	25
APV3-90	0.75		55	53	51	48	45	42	40	35	28
APV3-100	0.75		61	59	57	54	50	47	45	39	31
APV3-110	1.1		67	64	61	58	54	51	49	42	34
APV3-120	1.1		73	70	67	63	58	55	52	45	37
APV3-130	1.1		78	76	73	69	64	60	57	49	40
APV3-150	1.1		90	88	84	79	73	69	66	57	46
APV3-170	1.5		103	100	96	90	83	79	75	64	52
APV3-190	1.5		115	112	107	100	92	88	83	72	58
APV3-210	2.2		128	124	119	112	102	98	91	79	64
APV3-230	2.2		140	135	130	122	112	107	100	86	70
APV3-250	2.2		151	147	141	131	122	116	109	94	76
APV3-270	2.2		164	159	152	143	132	124	117	101	82
APV3-290	2.2		175	170	163	153	142	133	126	109	88
APV3-310	3.0		187	182	175	165	153	142	135	116	94
APV3-330	3.0		199	194	187	176	163	151	145	125	100
APV3-360	3.0		218	212	204	192	178	168	159	137	109

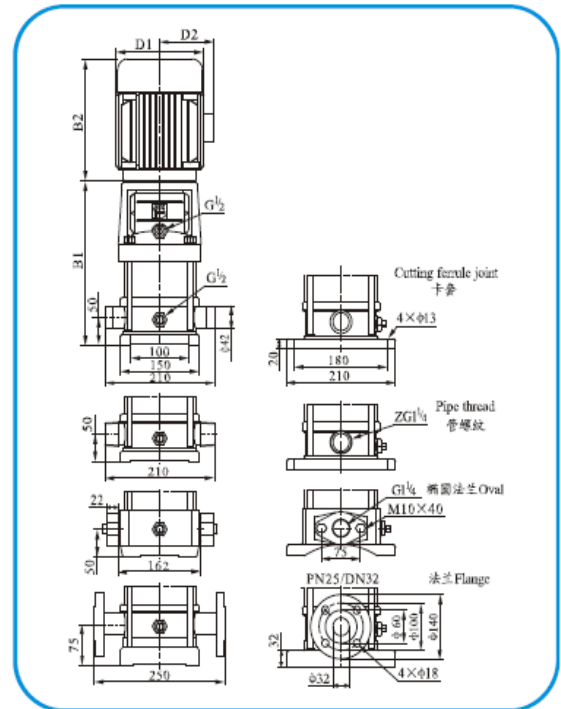
型号 Model	尺寸 (mm) / Size					重量 (kg) Weight
	B1	B2	B1+B2	D1	D2	
APV3-20	233	210	443	148	117	20
APV3-30	251	210	461	148	117	20
APV3-40	269	210	479	148	117	20
APV3-50	287	210	497	148	117	20
APV3-60	305	210	515	148	117	22
APV3-70	323	210	533	148	117	22
APV3-80	351	245	596	170	142	22
APV3-90	369	245	614	170	142	22
APV3-100	387	245	632	170	142	22
APV3-110	405	245	650	170	142	25
APV3-120	423	245	668	170	142	25
APV3-130	441	245	686	170	142	25
APV3-150	477	245	722	170	142	25
APV3-170	523	290	813	190	155	30
APV3-190	559	290	849	190	155	35
APV3-210	595	290	885	190	155	35
APV3-230	631	290	921	190	155	40
APV3-250	667	290	957	190	155	40
APV3-270	703	290	993	190	155	40
APV3-290	739	290	1029	190	155	40
APV3-310	785	315	1100	197	165	45
APV3-330	821	315	1136	197	165	50
APV3-360	875	315	1190	197	165	50

注：APV3-250~3-360 无椭圆法兰型管路联接/ Sub-connection of pipeline without oval flange

性能曲线/Performance curve



安装图/Installation sketch



性能表/Performance table

型号 Model	配用电机 (kW)	Q (m³/h)	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
APV4-20	0.37	H (m)	19	18	17	15	13	10	8	6
APV4-30	0.55		28	27	26	24	20	18	13	10
APV4-40	0.75		38	36	34	32	27	24	19	13
APV4-50	1.1		47	45	43	40	34	31	23	17
APV4-60	1.1		56	54	52	48	41	37	28	20
APV4-70	1.5		66	63	61	56	48	43	33	24
APV4-80	1.5		74	72	70	64	55	50	38	27
APV4-100	2.2		96	90	87	81	71	62	48	34
APV4-120	2.2		114	108	104	95	85	75	58	41
APV4-140	3.0		136	126	122	112	101	89	68	48
APV4-160	3.0		152	144	140	129	115	101	78	55
APV4-190	4.0		183	171	168	153	137	122	93	67
APV4-220	4.0		211	200	192	178	160	138	108	79

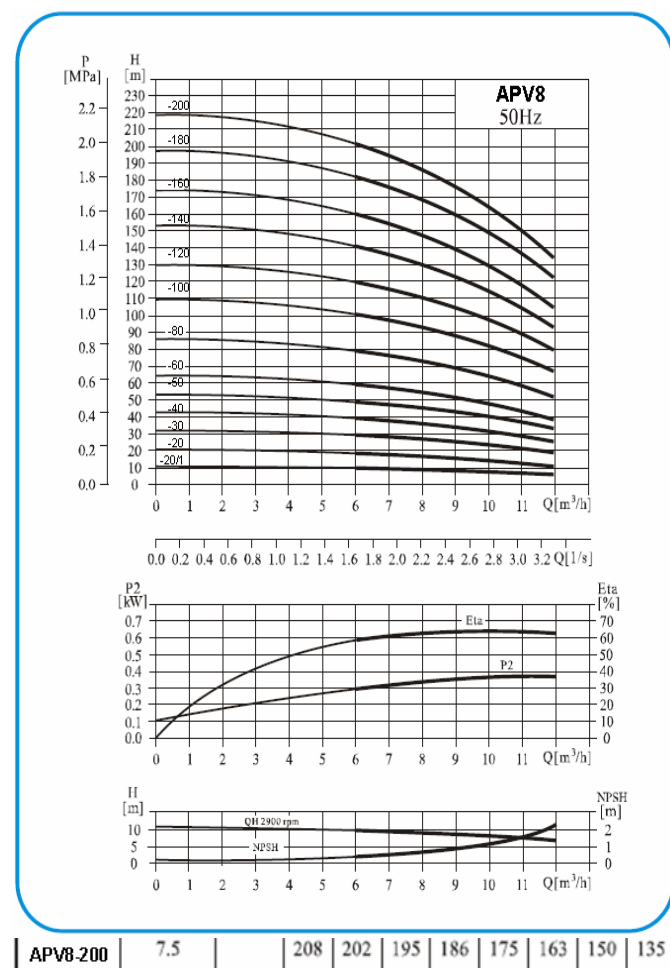
尺寸和重量/Size and weight

型号 Model	尺寸 (mm) / Size					重量 (kg) Weight
	B1	B2	B1+B2	D1	D2	
APV4-20	251	210	461	148	117	20
APV4-30	278	210	488	148	117	20
APV4-40	315	245	560	170	142	20
APV4-50	342	245	587	170	142	25
APV4-60	369	245	614	170	142	25
APV4-70	406	290	696	190	155	30
APV4-80	433	290	723	190	155	30
APV4-100	487	290	777	190	155	30
APV4-120	541	290	831	190	155	35
APV4-140	605	315	920	197	165	35
APV4-160	659	315	974	197	165	40
APV4-190	740	335	1075	230	188	45
APV4-220	821	335	1156	230	188	50

注：APV4-190~4-220 无椭圆法兰型管路联接/ Sub-connection of pipeline without oval flange

性能曲线/Performance curve

安装图/Installation sketch



性能表/Performance table

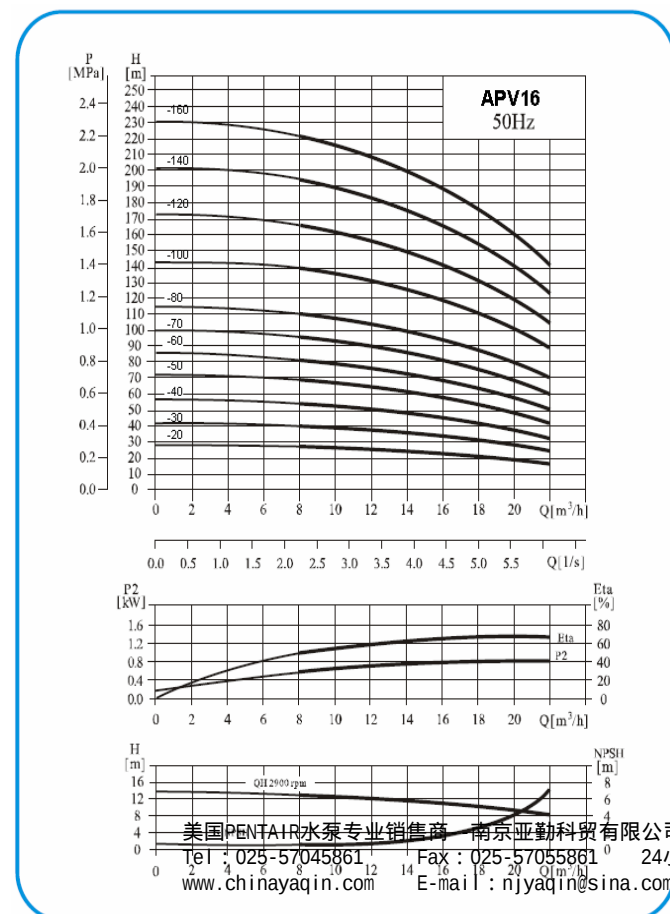
注：APV8-140~8-200 无椭圆法兰型管路联接/ Sub-connection of pipeline without oval flange

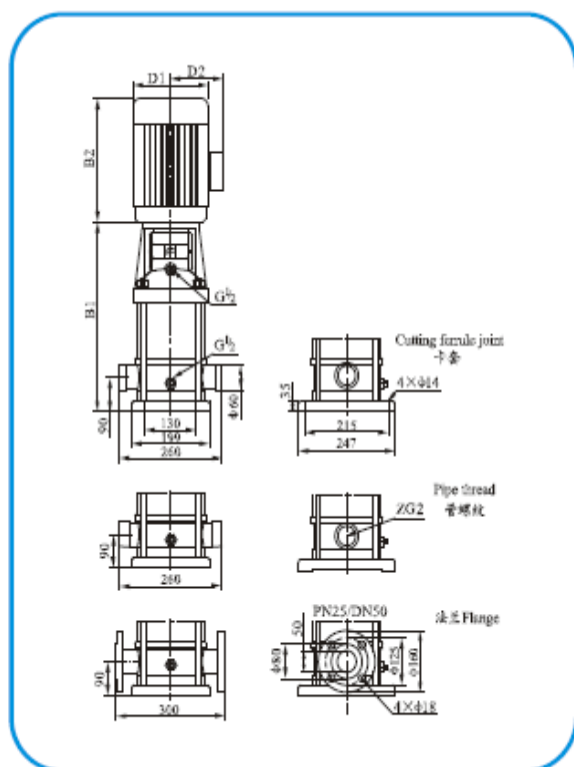
型号 Model	尺寸(mm) / Size					重量(kg) Weight
	B1	B2	B1+B2	D1	D2	
APV8-20/1	347	245	592	170	142	22
APV8-20	347	245	592	170	142	22
APV8-30	377	245	622	170	142	32
APV8-40	417	290	707	190	155	32
APV8-50	447	290	737	190	155	42
APV8-60	477	290	767	190	155	42
APV8-80	547	315	862	197	165	47
APV8-100	607	335	942	230	188	57
APV8-120	667	335	1002	230	188	57
APV8-140	747	430	1177	260	208	82
APV8-160	807	430	1237	260	208	82
APV8-180	867	430	1297	260	208	92
APV8-200	927	430	1357	260	208	92

尺寸和重量/Size and weight

性能曲线 /Performance curve

安装图/Installation sketch



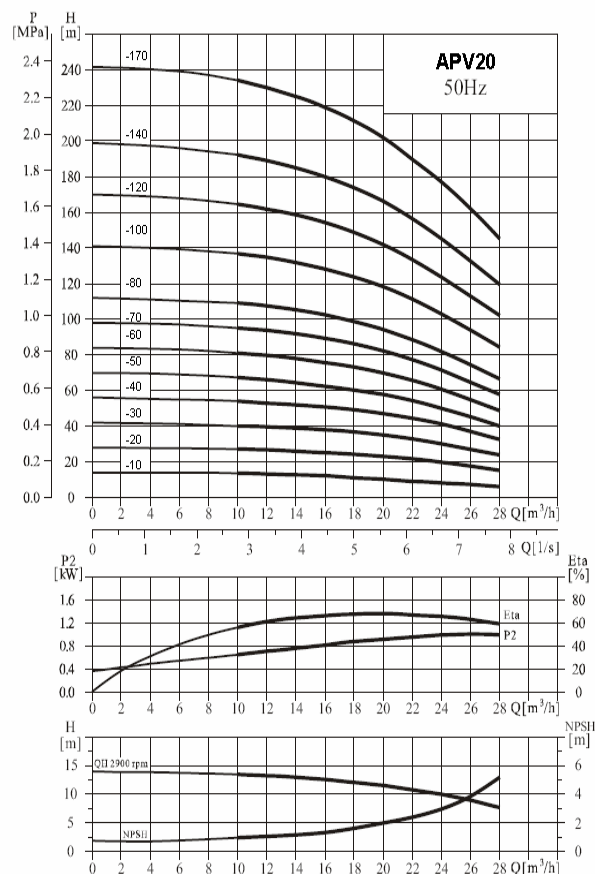


尺寸和重量/Size and weight

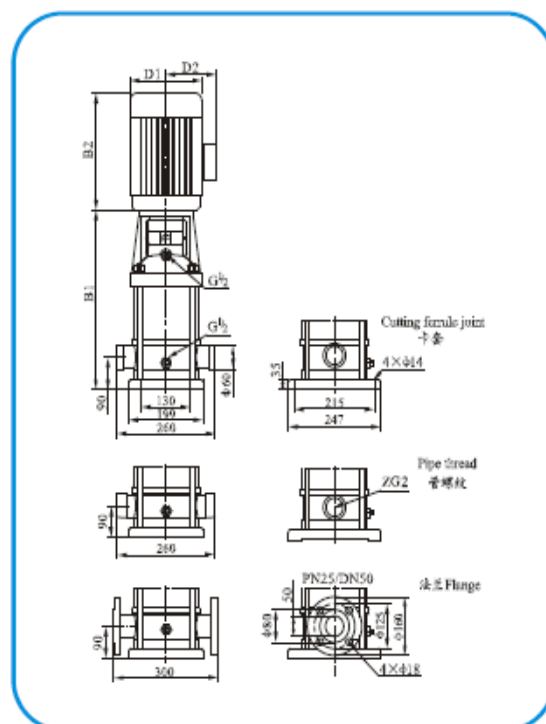
性能曲线 /Performance curve

性能表 /Performance table

型号 Model	配用功率 (kW)	型号 Model	尺寸(mm) / Size					重量(kg) Weight
			B1	B2	B1+B2	D1	D2	
APV16-20	2.2	APV16-20	397	290	687	190	155	42
APV16-30	3.0	APV16-30	452	315	767	197	165	52
APV16-40	4.0	APV16-40	497	335	832	230	188	57
APV16-50	5.5	APV16-50	562	430	992	260	208	72
APV16-60	5.5	APV16-60	607	430	1037	260	208	77
APV16-70	7.5	APV16-70	652	430	1082	260	208	82
APV16-80	7.5	APV16-80	697	430	1127	260	208	82
APV16-100	11	APV16-100	875	490	1365	330	255	142
APV16-120	11	APV16-120	965	490	1455	330	255	147
APV16-140	15	APV16-140	1055	490	1545	330	255	162
APV16-160	15	APV16-160	1145	490	1635	330	255	167



安装图/Installation sketch

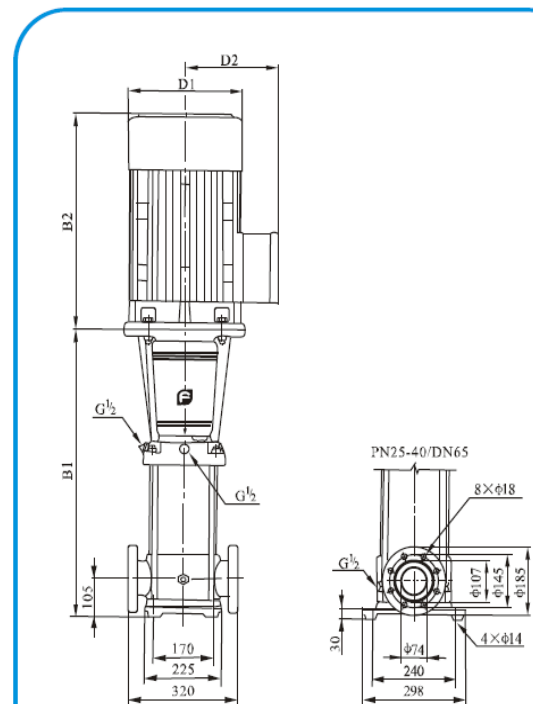
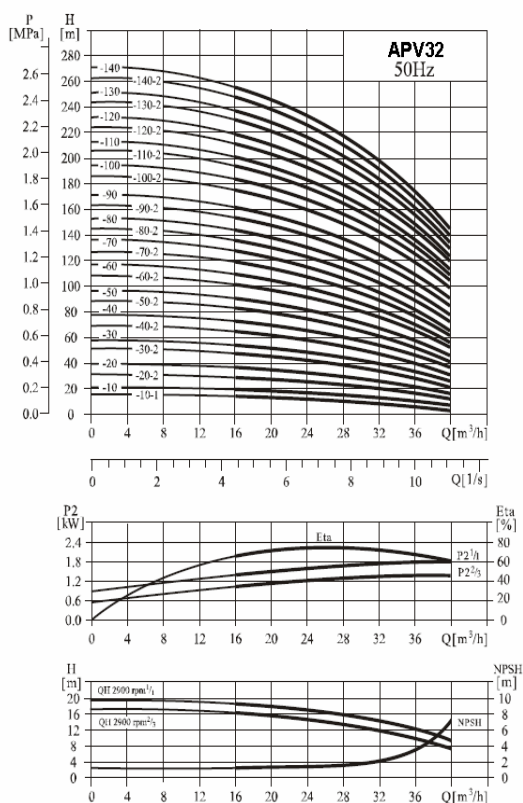


性能表/Performance table

型号 Model	配用电机 (kW)	Q (m ³ /h)	10	12	14	16	18	20	22	24	26	28
APV20-10	1.1	H (m)	13.5	13	12.5	12	11	10	9	8	7	6
APV20-20	2.2		27	26.5	26	25	24	23	22	20	18	15
APV20-30	4.0		40	39.5	39	38	37	35	33	30	27	24
APV20-40	5.5		54	53	52	51	49	47	44	41	37	33
APV20-50	5.5		67	66	64	62	60	58	55	50	45	40
APV20-60	7.5		81	79	77	75	73	70	66	61	55	49
APV20-70	7.5		95	93	91	89	86	82	77	71	65	58
APV20-80	11		109	107	105	102	99	94	89	82	75	67
APV20-100	11		136	134	131	128	124	118	111	103	95	85
APV20-120	15		164	162	158	154	149	142	133	124	114	102
APV20-140	15		192	189	185	180	174	166	156	145	133	119
APV20-170	18.5		234	230	225	219	212	202	190	177	162	145

尺寸和重量/Size and weight

型号 Model	尺寸(mm) / Size					重量(kg) Weight
	B1	B2	B1+B2	D1	D2	
APV20-10	387	245	632	170	142	32
APV20-20	397	290	687	190	155	43
APV20-30	452	335	787	230	188	57
APV20-40	517	430	947	260	208	72
APV20-50	562	430	992	260	208	74
APV20-60	607	430	1037	260	208	82
APV20-70	652	430	1082	260	208	84
APV20-80	785	490	1275	330	255	140
APV20-100	875	490	1365	330	255	145
APV20-120	965	490	1455	330	255	160
APV20-140	1055	490	1545	330	255	165
APV20-170	1190	550	1740	330	255	190

性能曲线 /Performance curve
安装图/Installation sketch


性能表/Performance table

型号 Model	配用电机 (kW)	Q (m ³ /h)	16	20	24	28	32	36	40
APV32-10-1	1.5	H (m)	14	13	12	11	9	7	4
APV32-10	2.2		18	17	15	14	13	11	8
APV32-20-2	3.0		29	28	26	23	20	16	11
APV32-20	4.0		36	34	32	29	27	23	18
APV32-30-2	5.5		47	44	41	38	33	28	21
APV32-30	5.5		54	51	48	44	40	35	27
APV32-40-2	7.5		65	62	58	53	46	40	30
APV32-40	7.5		72	69	65	59	53	47	37
APV32-50-2	11		83	79	74	68	60	52	41
APV32-50	11		90	86	81	74	67	59	47
APV32-60-2	11		101	97	90	83	74	65	51
APV32-60	11		108	104	97	90	81	72	57
APV32-70-2	15		119	114	107	98	88	78	60
APV32-70	15		126	121	113	105	95	85	67
APV32-80-2	15		136	131	123	114	102	90	71
APV32-80	15		144	138	130	120	109	97	77
APV32-90-2	18.5		154	148	140	129	117	102	82
APV32-90	18.5		162	156	147	136	124	109	88
APV32-100-2	18.5		175	166	157	146	131	115	91
APV32-100	18.5		182	173	164	152	138	122	98
APV32-110-2	22		193	184	173	164	146	128	102
APV32-110	22		200	191	180	168	153	135	109
APV32-120-2	22		211	201	189	178	160	140	113

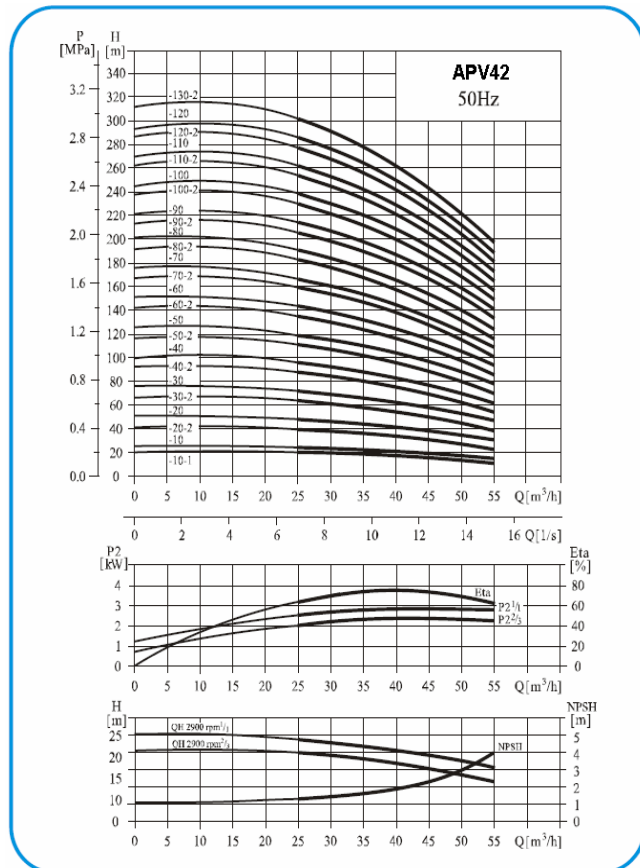
尺寸和重量/Size and weight

型号 Model	尺寸 (mm) / Size					重量 (kg) Weight
	B1	B2	B1+B2	D1	D2	
APV32-10-1/APV32-10	505	290	795	190	155	68/71
APV32-20-2/APV32-20	575	315/335	890/910	197/230	165/180	78/84
APV32-30-2/APV32-30	645	430	1075	260	208	93
APV32-40-2/APV32-40	715	430	1145	260	208	102
APV32-50-2/APV32-50	890	490	1380	330	255	172
APV32-60-2/APV32-60	960	490	1450	330	255	176
APV32-70-2/APV32-70	1030	490	1520	330	255	188
APV32-80-2/APV32-80	1100	490	1590	330	255	192
APV32-90-2/APV32-90	1170	550	1720	330	255	218
APV32-100-2/APV32-100	1240	550	1790	330	255	222
APV32-110-2/APV32-110	1310	590	1900	360	285	259
APV32-120-2/APV32-120	1380	590	1970	360	285	263
APV32-130-2/APV32-130	1450	660	2110	400	310	327
APV32-140-2/APV32-140	1520	660	2180	400	310	331

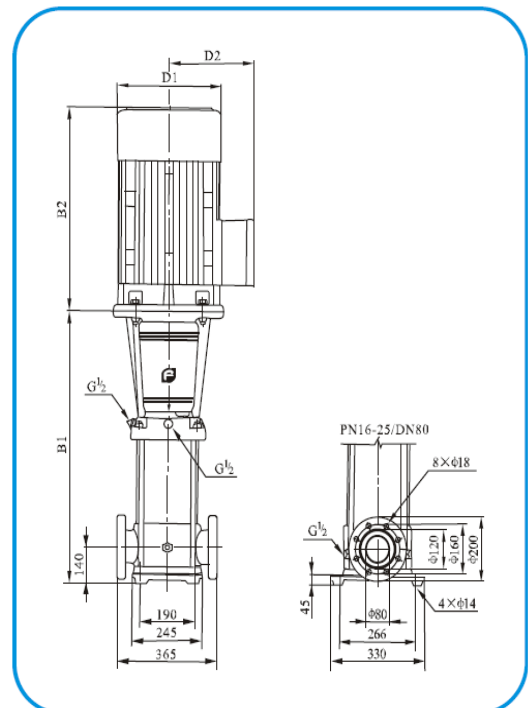
性能表/Performance table

型号 Model	配用电机 (kW)	Q (m ³ /h)	16	20	24	28	32	36	40
APV32-120	22	H (m)	218	208	196	184	167	147	120
APV32-130-2	30		230	218	206	193	174	153	124
APV32-130	30		237	225	213	200	181	160	131
APV32-140-2	30		247	235	222	210	189	165	135
APV32-140	30		255	242	229	216	196	172	142

性能曲线/Performance curve



安装图/Installation sketch



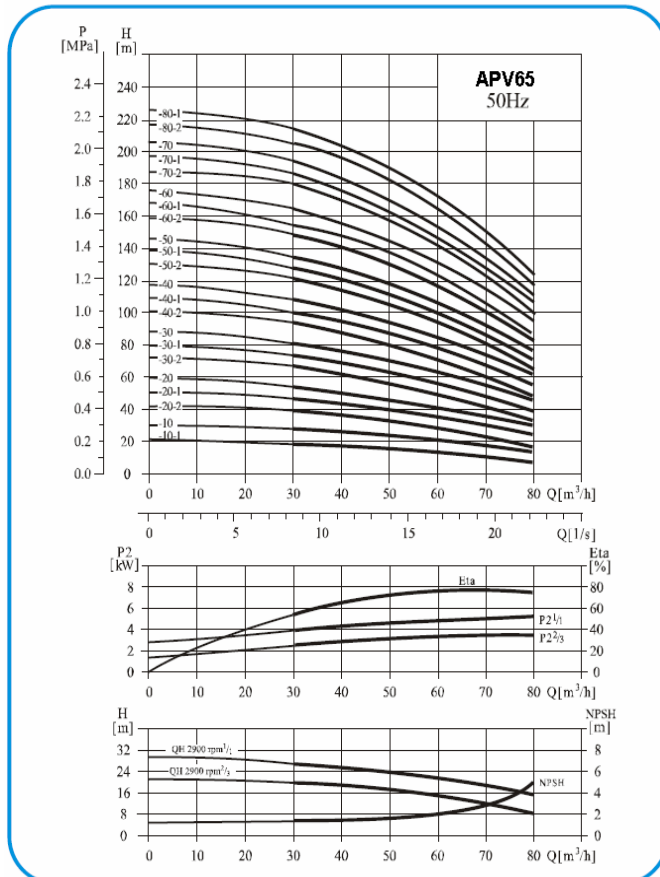
性能表/Performance table

型号 Model	配用电机 (kW)	Q (m ³ /h)	25	30	35	40	42	45	50	55
APV42-10-1	3.0	H (m)	20	19	18	17	16	15	13	11
APV42-10	4.0		24	23	22	21	20	19	18	16
APV42-20-2	5.5		40	38	36	33	32	30	27	23
APV42-20	7.5		48	46	44	42	41	39	35	31
APV42-30-2	11		63	61	58	54	52	50	44	38
APV42-30	11		71	69	66	63	61	58	53	47
APV42-40-2	15		87	84	80	75	73	69	62	54
APV42-40	15		95	92	88	84	81	78	71	62
APV42-50-2	18.5		111	107	102	96	93	88	80	69
APV42-50	18.5		119	115	110	105	101	97	88	78
APV42-60-2	22		135	130	124	117	113	108	97	85
APV42-60	22		143	138	132	125	122	116	106	93
APV42-70-2	30		158	152	146	138	134	127	115	100
APV42-70	30		166	161	154	146	142	135	124	109
APV42-80-2	30		182	175	168	159	154	146	133	116
APV42-80	30		190	184	176	167	162	154	141	124
APV42-90-2	30		205	198	190	180	174	166	150	132
APV42-90	37		214	207	198	188	183	174	159	140
APV42-100-2	37		230	221	212	200	194	185	168	147
APV42-100	37		238	230	220	209	203	193	177	155
APV42-110-2	45		255	246	236	223	217	206	188	165
APV42-110	45		263	255	244	232	225	214	196	173
APV42-120-2	45		280	270	259	245	238	226	206	181
APV42-120	45		289	280	268	255	247	236	216	190
APV42-130-2	45		305	294	282	267	259	247	225	198

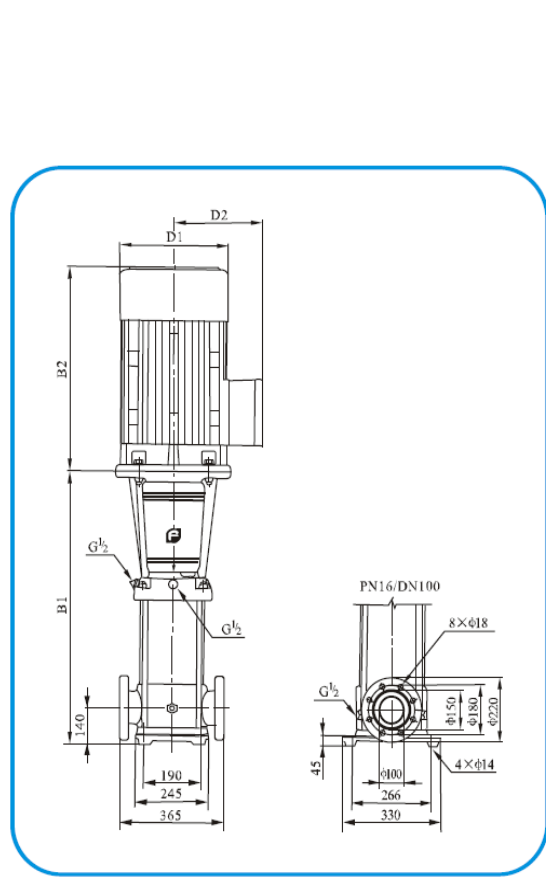
尺寸和重量/Size and weight

型号 Model	尺寸(mm) / Size					重量(kg) Weight
	B1	B2	B1+B2	D1	D2	
APV42-10-1	561	315/335	876/896	197/230	165/188	86/92
APV42-10						
APV42-20-2	641	430	1071	260	208	102/107
APV42-20						
APV42-30-2	826	490	1316	330	255	175
APV42-30						
APV42-40-2	906	490	1396	330	255	187
APV42-40						
APV42-50-2	986	550	1536	330	255	208
APV42-50						
APV42-60-2	1066	590	1656	360	285	251
APV42-60						
APV42-70-2	1146	660	1806	400	310	315
APV42-70						
APV42-80-2	1226	660	1886	400	310	319
APV42-80						
APV42-90-2	1306	660	1966	400	310	323/343
APV42-90						
APV42-100-2	1386	660	2046	400	310	347
APV42-100						
APV42-110-2	1466	700	2166	450	345	413
APV42-110						
APV42-120-2	1546	700	2246	450	345	417
APV42-120						
APV42-130-2	1626	700	2326	450	345	421

性能曲线/Performance curve



安装图/Installation sketch



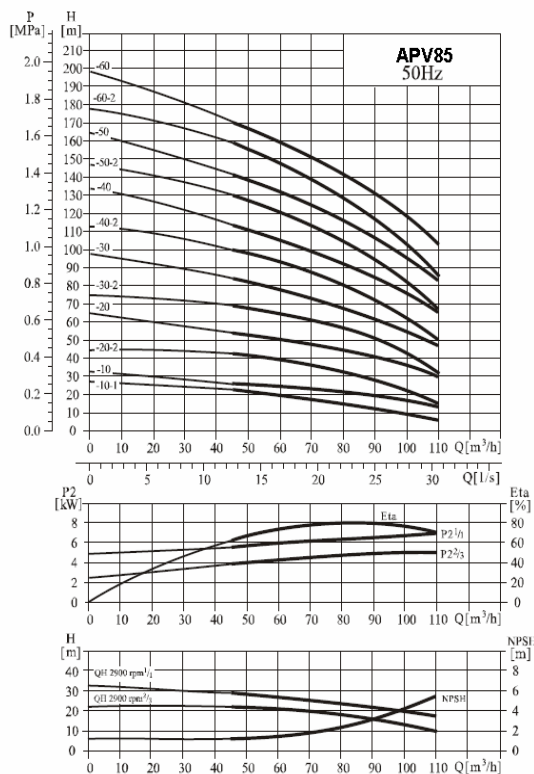
性能表/Performance table

型号 Model	配用电机 (kW)	Q (m ³ /h)	30	40	50	60	65	70	80
APV65-10-1	4.0	H (m)	19	18	16	14	13	11	8
APV65-10	5.5		27	25	23	21	20	18	15
APV65-20-2	7.5		39	36	33	29	26	23	17
APV65-20-1	11		46	44	40	36	33	30	24
APV65-20	11		53	51	47	43	40	37	30
APV65-30-2	15		66	62	56	50	46	41	32
APV65-30-1	15		73	69	63	57	53	48	39
APV65-30	18.5		80	76	70	64	60	55	46
APV65-40-2	18.5		92	87	80	71	66	60	47
APV65-40-1	22		100	94	87	78	73	67	54
APV65-40	22		107	101	94	85	80	74	61
APV65-50-2	30		121	114	105	95	88	80	64
APV65-50-1	30		128	121	112	102	95	87	71
APV65-50	30		136	129	119	109	102	94	78
APV65-60-2	30		150	142	131	118	110	101	81
APV65-60-1	37		157	149	138	125	117	108	88
APV65-60	37		164	156	145	132	124	115	95
APV65-70-2	37		179	169	156	141	132	121	99
APV65-70-1	37		186	176	163	148	139	128	106
APV65-70	45		193	183	170	155	146	135	112
APV65-80-2	45		207	196	182	164	154	142	116
APV65-80-1	45		215	203	189	171	161	149	123

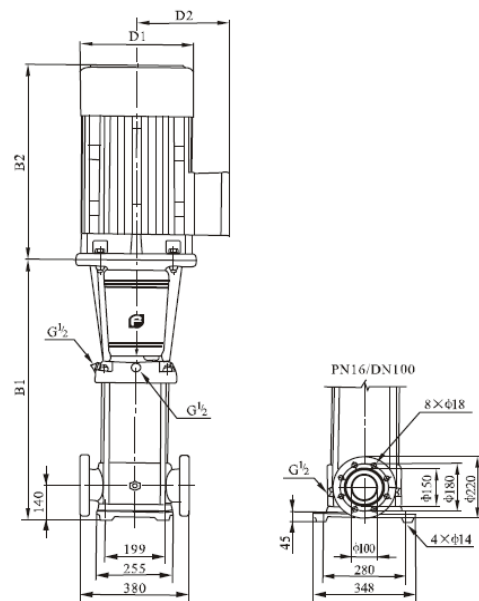
尺寸和重量/Size and weight

型号 Model	尺寸(mm) / Size					重量(kg) Weight
	B1	B2	B1+B2	D1	D2	
APV65-10-1	561	335	896	230	188	105
APV65-10	561	430	991	260	208	110
APV65-20-2	644	430	1074	260	208	120
APV65-20-1	754	490	1244	330	255	155
APV65-20	754	490	1244	330	255	155
APV65-30-2	836	490	1326	330	255	195
APV65-30-1	836	490	1326	330	255	195
APV65-30	836	550	1386	330	255	205
APV65-40-2	919	550	1469	330	255	208
APV65-40-1	919	590	1509	360	285	260
APV65-40	919	590	1509	360	285	260
APV65-50-2	1001	660	1661	400	310	345
APV65-50-1	1001	660	1661	400	310	345
APV65-50	1001	660	1661	400	310	345
APV65-60-2	1084	660	1744	400	310	350
APV65-60-1	1084	660	1744	400	310	370
APV65-60	1084	660	1744	400	310	370
APV65-70-2	1166	660	1826	400	310	375
APV65-70-1	1166	660	1826	400	310	375
APV65-70	1166	700	1866	400	310	435
APV65-80-2	1248	700	1948	460	340	440
APV65-80-1	1248	700	1948	460	340	440

性能曲线/Performance curve



安装图/Installation sketch



性能表/Performance table

型号 Model	配用电机 (kW)	Q (m ³ /h)	50	60	70	80	85	90	100	110
APV85-10-1	5.5	H (m)	22	19	17	16	14	13	10	6
APV85-10	7.5		25	24	22	21	20	19	16	12
APV85-20-2	11		41	39	36	32	30	28	22	15
APV85-20	15		53	50	47	44	41	40	36	30
APV85-30-2	18.5		68	65	60	55	52	49	41	32
APV85-30	22		81	77	72	67	64	62	55	48
APV85-40-2	30		98	93	87	80	75	72	62	50
APV85-40	30		110	105	100	92	86	84	76	66
APV85-50-2	37		126	120	113	104	98	93	81	68
APV85-50	37		139	131	124	115	110	106	94	83
APV85-60-2	45		155	148	139	129	122	117	102	86
APV85-60	45		168	160	150	141	134	130	117	103

尺寸和重量/Size and weight

型号 Model	尺寸(mm) / Size					重量(kg) Weight
	B1	B2	B1+B2	D1	D2	
APV85-10-1	571	430	1001	260	208	120
APV85-10	571	430	1001	260	208	122
APV85-20-2	773	490	1263	330	255	165
APV85-20	773	490	1263	330	255	198
APV85-30-2	865	550	1415	330	255	212
APV85-30	865	590	1455	360	285	265
APV85-40-2	957	660	1617	400	310	348
APV85-40	957	660	1617	400	310	348
APV85-50-2	1049	660	1709	400	310	375
APV85-50	1049	660	1709	400	310	375
APV85-60-2	1141	700	1841	460	340	438
APV85-60	1141	700	1841	460	340	438

泵系统应用工程项目（部分）/Pump Systems Reference Applications