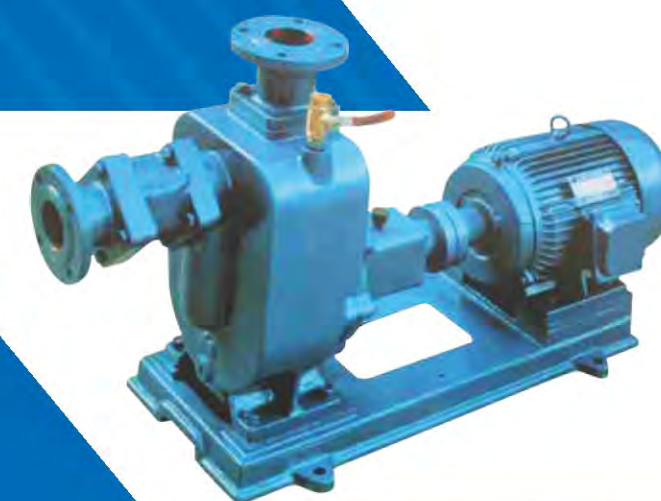




ZW Type Self - Suction Non Clogging Sewage Pump

ZW 型自吸无堵塞排污泵



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AIDSUN® 南京艾德森水务有限公司
爱德森 Nanjing Aidesen Water Service Co., Ltd

地址：南京市六合区雄州街道后潘路1号

邮编：211500

电话：025-57507911

传真：025-57750693

网址：www.adswater.cn

Address: No.1 Houpan Road, Xiongzhou Street, Liuhe District, Nanjing City

Zip: 211500

Tel: 025-57507911

Fax: 025-57750693

Http: www.adswater.cn

南京艾德森水务有限公司
Nanjing Aidesen Water Service Co., Ltd



INTRODCTION

企业简介

南京艾德森水务有限公司，坐落于美丽的茉莉花故乡南京六合，这里区位优势、交通便捷，自然环境与人文底蕴相得益彰，为公司的发展提供了得天独厚的条件。

南京艾德森水务有限公司是蓝深集团控股企业，同时也是高新技术企业、科技型中小企业以及创新型中小企业。依托蓝深集团先进的管理模式、前沿技术及精良工艺装备，南京艾德森水务有限公司得以在发展中不断创新突破，迅速成长。

公司业务广泛，涵盖水资源专用机械设备、环境保护专用设备、泵及真空设备等的制造与销售，在市政公用工程、环保工程、水利工程施工领域也有着丰富经验，能够承接各类工程项目，为客户提供全方位的水务解决方案。同时，公司还提供环保技术咨询、水利相关咨询等专业服务，助力客户解决各类水务难题。

南京艾德森水务有限公司始终将技术创新作为发展的核心驱动力，公司目前已拥有多项专利及条软件著作权，这些成果见证了公司在技术研发上的不懈努力与卓越成就。公司连

续入选南京市瞪羚企业，在创新发展的道路上一路高歌猛进；公司荣获南京市知识产权示范企业和江苏省知识产权管理贯标绩效评价合格单位，进一步彰显了公司在知识产权管理和创新能力方面的突出表现。

公司产品多元化，潜水排污泵、潜水搅拌机、潜水轴流泵、污水处理设备，一体化预制泵站等产品凭借可靠的质量和稳定的性能，在市场上赢得了良好口碑，广泛应用于污水处理、水利工程、工业制造等多个行业领域，为保障水资源合理利用和生态环境改善发挥了重要作用。

秉持“以质量求生存，以诚信求发展，以服务创效益”的经营理念，南京艾德森水务有限公司将客户需求放在首位，注重产品质量与服务细节，致力于为客户提供优质、高效、专业的水务产品和服务。未来，南京艾德森水务有限公司将继续扎根水务领域，不断开拓创新，努力为推动行业发展和生态环境保护贡献更大的力量。

Nanjing Adison Water Co., Ltd. is located in Liuhe, Nanjing, the beautiful hometown of the folk song "Jasmine". With its superior location, convenient transportation, and the harmonious integration of natural environment and cultural heritage, it enjoys unique advantages for development.

Nanjing Adison Water Co., Ltd. is a holding company of Lanshen Group. It is also a high - tech enterprise, a technology - based small and medium - sized enterprise, and an innovative small and medium - sized enterprise. Relying on Lanshen Group's advanced management mode, cutting - edge technology, and sophisticated process equipment, Nanjing Adison Water Co., Ltd. has been able to innovate and break through continuously in its development and grow rapidly.

The company has a wide range of businesses, covering the manufacturing and sales of special machinery and equipment for water resources, special equipment for environmental protection, pumps and vacuum equipment, etc. It also has rich experience in the construction of municipal public works, environmental protection projects, and water conservancy projects. It can undertake various engineering projects and provide customers with comprehensive water - related solutions. At the same time, the company provides professional services such as environmental protection technical consultation and water - conservancy - related consultation to help customers solve various water - related problems.

Nanjing Adison Water Co., Ltd. always regards technological innovation as the core driving force for development. The company currently owns a number of patents and software copyrights, which are a testament to its unremitting efforts and outstanding achievements in technology research and development. The company has been continuously selected as a Gazelle Enterprise in Nanjing, making great progress on the path of innovative development. It has won the title of Nanjing Intellectual Property Demonstration Enterprise and has passed the performance evaluation of the Intellectual Property Management Standardization in Jiangsu Province, further demonstrating its outstanding performance in intellectual property management and innovation capabilities.

The company's products are diversified. Products such as submersible sewage pumps, submersible agitators , submersible axial - flow pumps, sewage treatment equipment, and integrated prefabricated pumping stations have won a good reputation in the market for their reliable quality and stable performance. They are widely used in many industries such as sewage treatment, water conservancy projects, and industrial manufacturing, playing an important role in ensuring the rational use of water resources and the improvement of the ecological environment.

Upholding the business philosophy of "Survive by Quality, Develop by Integrity, and Create Benefits through Service", Nanjing Adison Water Co., Ltd. puts customer needs first, pays attention to product quality and service details, and is committed to providing customers with high - quality, efficient, and professional water - related products and services. In the future, Nanjing Adison Water Co., Ltd. will continue to be rooted in the water - related field, keep exploring and innovating, and strive to make greater contributions to promoting the development of the industry and ecological environmental protection.

Profile of Aidesen pumps



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概 述

Overview

ZW系列自吸式无堵塞排污泵是在反复研究国内外同类技术的基础上开发成功的一种结构新颖的产品。

该泵集自吸和无堵塞排污于一体，采用轴向回流外混式，并通过泵体、叶轮流道的独特设计，即可像一般自吸清水泵那样不需要安装底阀和灌引水，又可吸排含有大颗粒固体和长纤维杂质液体，可广泛适用于市政排污工程、河塘养殖、轻工、造纸、纺织、食品。化工、电业、纤维、浆料和混合悬浮等化工介质最理想的杂质泵。

该泵与国内同类产品相比，具有结构简单、自吸性能好、排污能力强、高效节能，使用维修方便等特点。在排污泵系列产品中属国内首创。各项技术性能指标居国内领先，达到国际先进水平，具有广阔的应用市场和发展前景。

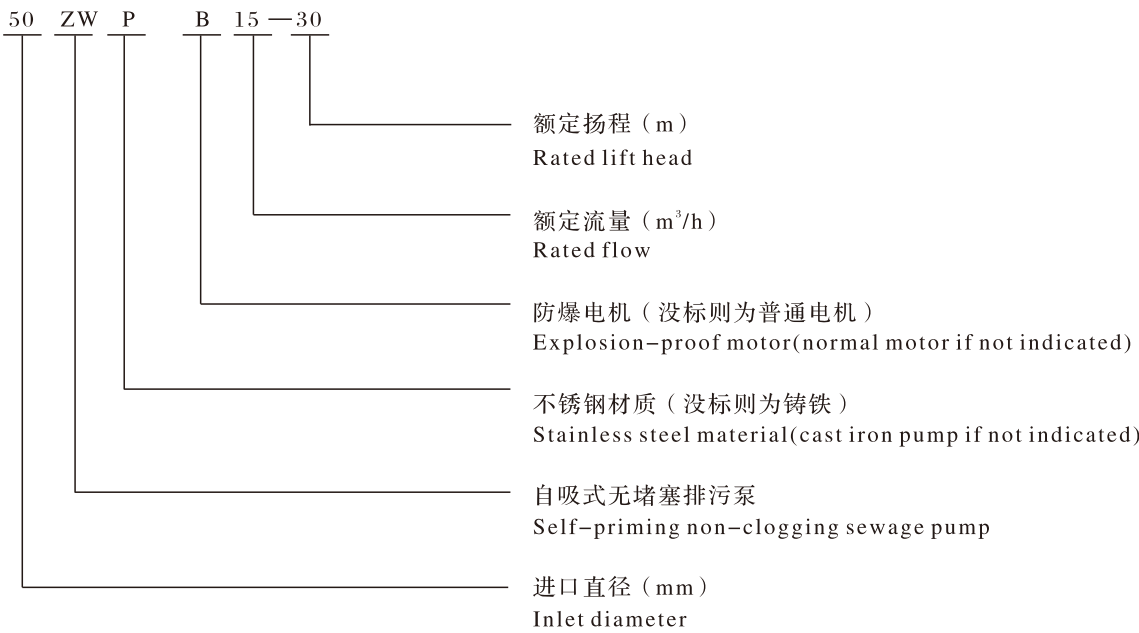
ZW series self-priming non-clogging sewage pump is a novel product by repeated studying the same basic of the successful development on domestic and oversea technology.

This pump integrates self-priming and non-jamming blowdown, it adopts axial return of mixed , and through the special design of the pump body and impeller flow path , which is unnecessary for mounting the bottom valve and fill the water like the general self-priming clear water pump and also can pump the filth containing big solid blocks and long fibres impurity liquid. It can widely applicable for municipal sewage discharge ,aquiculture, light industry, paper making, textile, food stuff, chemical, electric power, fibre, to handle paste, mixed suspended matters and other chemical mediums.

Compared with domestic product , it has a simple structure, well self-priming performance, strong ability of sewage, energy-saving and efficient use of convenience features such as maintenance. This is a pioneer in this series pump in china. All technical performance target is keeping ahead in China and reached international advanced level. It has a widely applied market and development foreground.

型号说明

Model Description



结构材料及使用范围

名称	泵体	叶轮	密封盖	气液分离管	进出接管	轴承座	联轴器	轴	机械密封	电机
材质	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200	HT200	45 ZG1Cr18Mo9Ti	碳化钨	Y Y2 YB YB2

Model description

Name	Pump body	Impeller	Sealed lid	Gas and liquid separation tube	Inlet and outlet pipeline	Bearing block	Coupling	Shaft	Mechanical seal	Motor
Material	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200 ZG1Cr18Ni9Ti	HT200	HT200	45 ZG1Cr18Mo9Ti	碳化钨	Y Y2 YB YB2

使用范围

Working Conditions:

- 1、环境温度 <50℃，介质温度 <80℃，特殊要求可达200℃。

2、介质PH值铸铁材质为6-9，不锈钢为2-13。

3、介质重量不超过1240千克/m³。

4、自吸高度不能超过规定值4.5-5.5米，吸入管总长度为≤10米为宜。

5、通过能力悬浮颗粒直径为泵口径的60%，纤维长度为泵口径的5倍。
- 1、Ambient temperature <50℃, medium temperature <80℃, if special requirement it can reached to 200℃.

2、Medium PH :6-9 for cast iron pump and 2-13for stainless steel pump .

3、Medium weight should not exceed 1240 kg/m³.

4、Self-height can not exceed regulated value 4.5-5.5 m, suction pipeline height ≤10m

5、The maximum diameter of passing grain is 60% of the pump diameter while the fiber length is 5 times of the pump diameter.

型号与性能参数

Type and preformance data

型 号 Type	进口口径 (m)	出口口径 (m)	流 量 (m³/h)	扬 程 (m)	功 率 (kw)	转 速 (r/min)	自吸高度 (m)
ZW25-8-15	25	25	8	15	1.5	2900	4.5
ZW32-5-20	32	32	5	20	2.2	2900	4.5
ZW32-10-20	32	32	10	20	2.2	2900	4.5
ZW32-9-30	32	32	9	30	3	2900	4.5
ZW32-20-12	32	32	20	12	2.2	2900	4.5
ZW40-10-20	40	32	10	20	2.2	2900	4.5
ZW40-20-15	40	32	20	15	2.2	2900	4.5
ZW40-15-30	40	32	15	30	3	2900	4.5
ZW50-10-20	50	40	10	20	2.2	2900	4.5
ZW50-20-12	50	40	20	12	2.2	2900	4.5
ZW50-15-30	50	40	15	30	3	2900	4.5
ZW65-15-30	65	65	15	30	3	2900	4.5
ZW65-20-14	65	65	20	14	2.2	2900	4.5
ZW65-30-18	65	65	30	18	4	2900	4.5
ZW65-25-30	65	65	25	30	5.5	2900	4.5
ZW65-25-40	65	65	25	40	7.5	2900	4.5
ZW65-40-25	65	65	40	25	7.5	2900	4.5
ZW65-65-25	65	65	65	25	7.5	2900	4.5
ZW65-30-50	65	65	30	50	11	2900	4.5
ZW80-40-16	80	65	40	16	4	2900	4.5
ZW80-40-25	80	65	40	25	7.5	2900	4.5
ZW80-25-40	80	65	25	40	7.5	2900	4.5
ZW80-65-25	80	65	65	25	7.5	2900	4.5
ZW80-80-35	80	65	80	35	15	2900	4.5
ZW80-40-50	80	65	40	50	18.5	2900	4.5
ZW80-50-60	80	65	50	60	22	2900	4.5
ZW80-80-45	80	65	80	45	22	2900	4.5
ZW100-100-15	100	80	100	15	7.5	2900	4.5
ZW100-80-20	100	80	80	20	7.5	2900	4.5
ZW100-100-20	100	80	100	20	11	2900	4.5
ZW100-100-30	100	80	100	30	22	2900	4.5
ZW100-80-45	100	80	80	45	30	2900	4.5
ZW100-80-60	100	80	80	60	37	2900	4.5
ZW125-120-20	125	125	120	20	15	1450	4.5
ZW125-200-15	125	125	200	15	15	1450	4.5
ZW150-200-15	150	125	200	15	15	1450	4.5
ZW150-180-20	150	125	180	20	22	1450	4.5
ZW150-180-30	150	125	180	30	30	1450	4.5
ZW150-180-38	150	125	180	45	55	1450	4.5
ZW150-250-25	150	125	250	37	45	1450	4.5
ZW200-280-14	200	150	280	14	22	1450	4.5
ZW200-280-20	200	150	280	20	37	1450	4.5
ZW200-300-25	200	150	300	25	45	1450	4.5
ZW200-280-28	200	150	280	28	55	1450	4.5
ZW250-420-20	250	200	420	20	55	1450	4.5
ZW300-800-14	300	250	800	14	55	1450	4.5

ZW 型自吸无堵塞排污泵

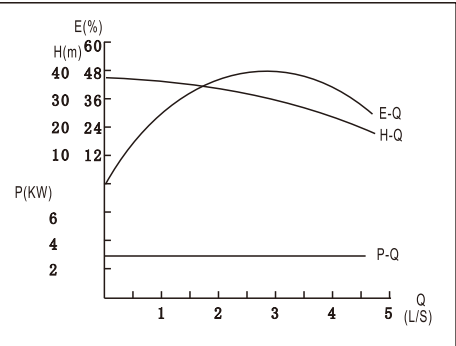
ZW TYPE SELF - SUCTION NON CLOGGING SEWAGE PUMP

AIDASEN WATER

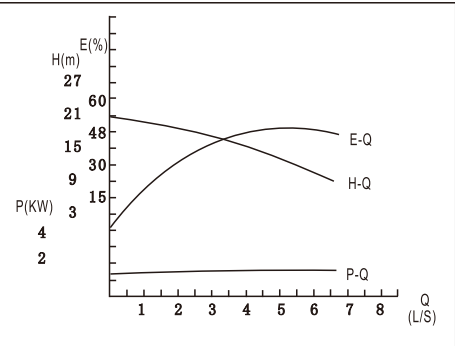
性能曲线

Performance curve

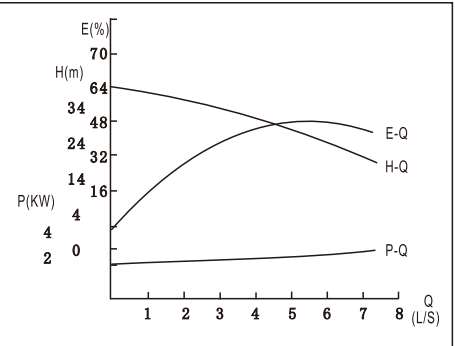
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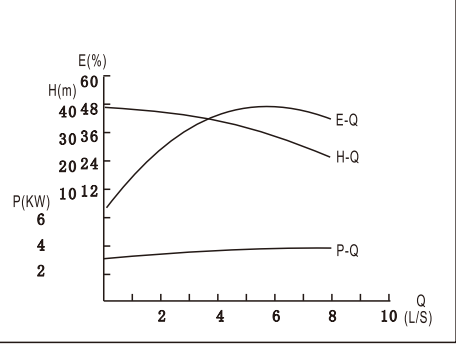
ZW50-20-12



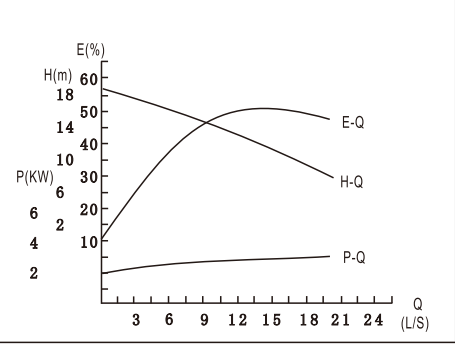
ZW40-15-30
ZW50-15-30



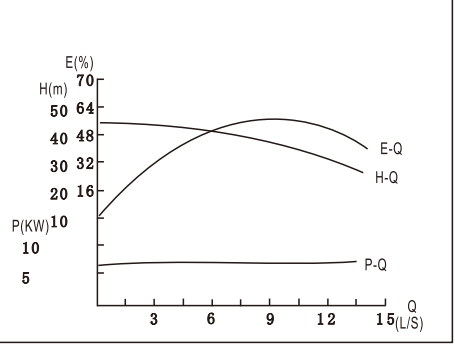
ZW50-20-35



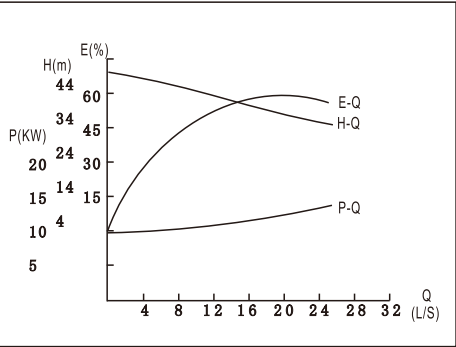
ZW65-30-18
ZW80-40-16



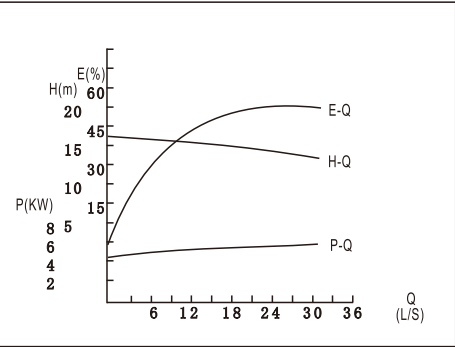
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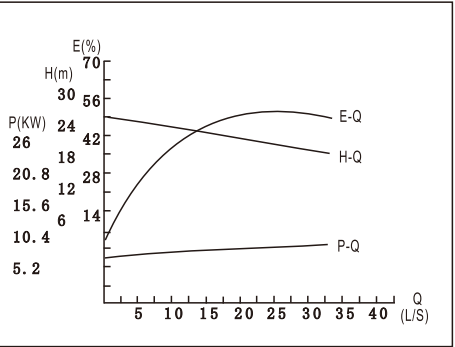
ZW80-80-35



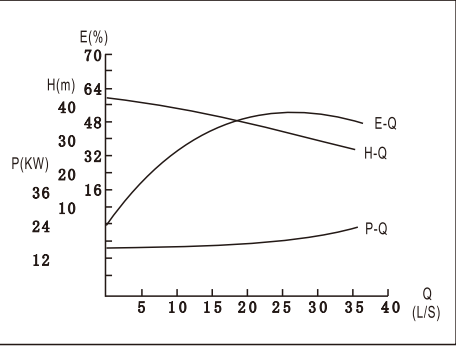
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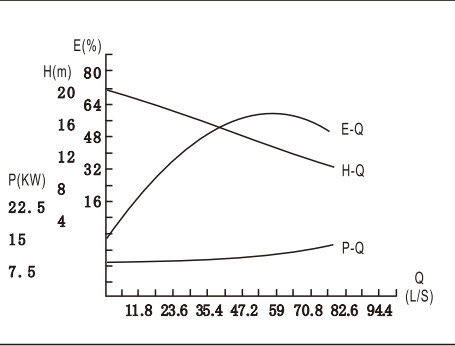
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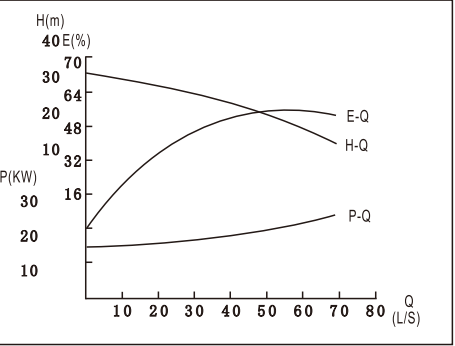
ZW100-100-30



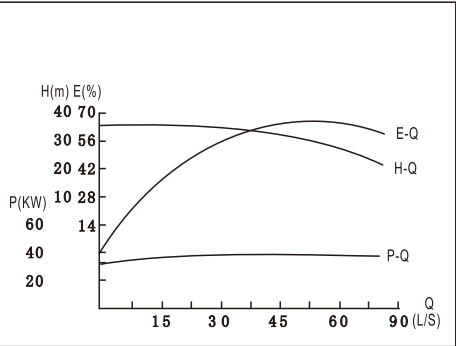
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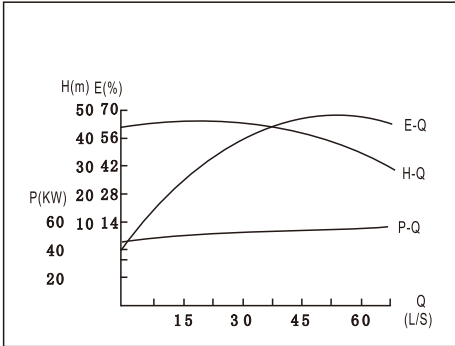
ZW150-180-20



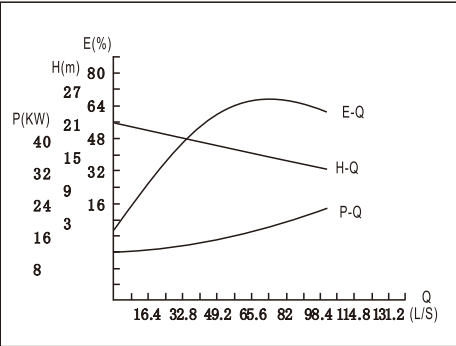
ZW150-180-30



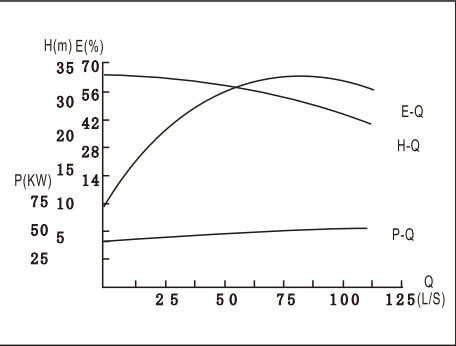
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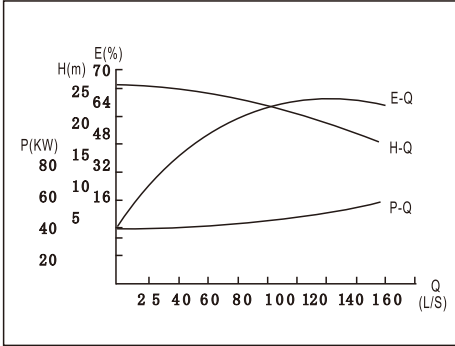
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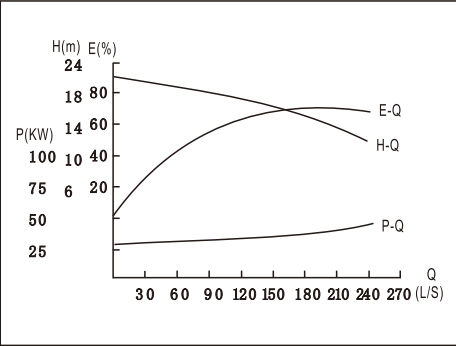
ZW200-280-28



ZW250-420-20



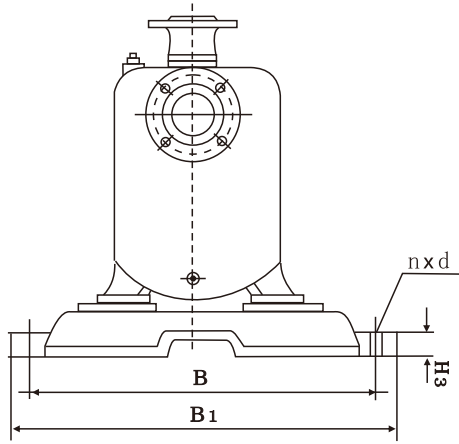
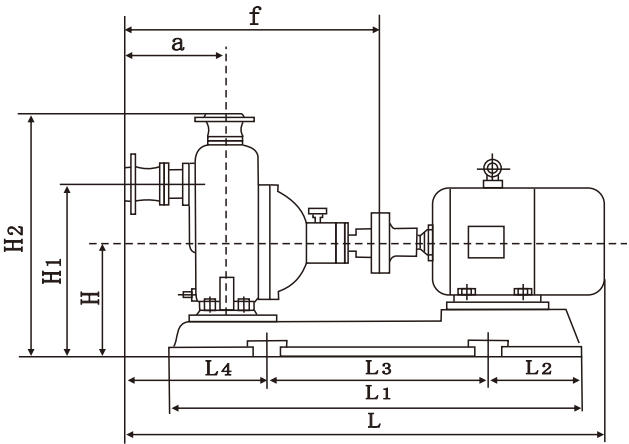
ZW300-800-14



泵机组的安装及外形尺寸图

Pump installation and size chart

- 1、安装前检查基础是否水平？
- 1、 Check whether the basis kept a level head before being installed
- 2、检查各部件在运输中有否被损坏？
- 2、 Check whether the parts were damaed in transit
- 3、泵本身不允许作为管路支承？
- 3、 Pump is not allowed to be pipeline support
- 4、泵与管路应保持良好的密封。
- 4、 Pumps and pipes should be sealed well
- 5、泵出水管路必须保持垂直朝上1米。
- 5、 Pump outlet pipeline should be vertical 1 meter under the ground



ZW 型自吸无堵塞排污泵
ZW TYPE SELF – SUCTION NON CLOGGING SEWAGE PUMP

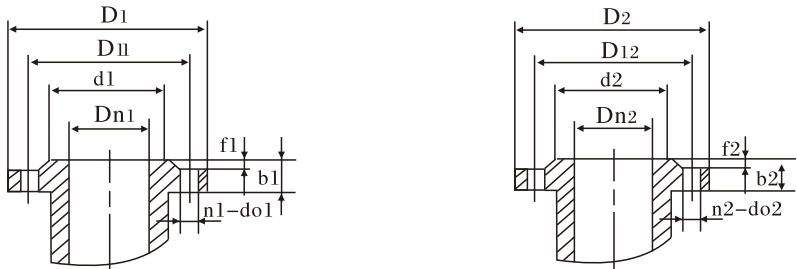
外形及安装尺寸表
Dimensions and installation dimension sheet

型 号 Type	L	L ₁	L ₂	L ₃	L ₄	A	F	B	B ₁	H	H ₁	H ₂	H ₃	nx _d
ZW25-8-15	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW32-5-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW32-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW32-9-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4×18
ZW32-20-12	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW40-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW40-20-15	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW40-15-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4×18
ZW50-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW50-20-12	850	680	115	450	240	255	510	310	370	228	410	625	24	4×18
ZW50-15-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4×18
ZW65-15-30	1140	850	135	580	340	350	700	370	520	270	480	720	25	4×18
ZW65-20-14	1140	850	135	580	340	350	700	370	520	270	480	720	25	4×18
ZW65-30-18	1040	760	135	500	340	350	650	380	450	265	485	760	25	4×18
ZW65-25-30	1230	850	135	580	340	350	700	370	520	270	480	720	25	4×18
ZW65-25-40	1230	850	135	580	340	350	700	370	520	270	480	720	25	4×18
ZW65-40-25	1165	850	135	580	340	350	650	370	430	265	485	760	25	4×18
ZW65-65-25	1300	940	150	640	350	350	700	430	485	270	480	720	25	4×18
ZW65-30-50	1310	980	150	640	370	350	720	430	485	265	455	680	25	4×18
ZW80-40-16	1040	760	135	500	340	350	650	380	450	265	485	760	25	4×18
ZW80-40-25	1165	850	135	580	340	350	650	370	430	265	485	760	25	4×18
ZW80-25-40	1230	850	135	580	340	350	700	370	520	270	480	720	25	4×18
ZW80-65-25	1300	940	150	640	350	350	700	430	485	270	480	720	25	4×18
ZW80-80-35	1300	1020	190	640	360	350	700	450	520	270	480	720	25	4×23
ZW80-40-50	1350	1000	190	640	400	350	650	450	520	280	495	770	25	4×23
ZW80-50-60	1360	1020	190	640	400	350	650	450	520	280	495	770	25	4×23
ZW80-80-45	1360	1020	190	640	400	350	650	450	520	280	495	770	25	4×23
ZW100-100-15	1230	920	140	630	375	400	730	450	510	330	630	920	28	4×23
ZW100-80-20	1230	920	140	630	375	400	730	450	510	330	630	920	28	4×23
ZW100-100-20	1320	1020	200	625	420	400	730	450	510	330	630	920	28	4×23
ZW100-100-30	1650	1300	320	730	480	460	900	480	550	330	570	870	30	4×23
ZW100-80-45	1620	1180	175	820	450	430	825	500	550	325	600	840	30	4×23
ZW100-80-60	1620	1180	175	820	450	430	825	500	550	325	600	840	30	4×23
ZW125-120-20	600	1170	175	820	450	510	880	480	540	330	665	990	30	4×23
ZW125-200-15	1500	1200	390	700	500	390	810	520	450	330	630	880	30	4×23
ZW150-200-15	1500	1200	390	700	500	390	810	520	450	330	630	880	30	4×23
ZW150-180-20	1580	1300	200	730	500	490	870	480	550	350	700	1030	30	4×23
ZW150-180-30	1690	1370	235	800	500	490	870	520	600	350	700	1030	30	4×23
ZW150-180-38	1920	1570	245	1080	400	490	870	580	660	350	700	1020	30	4×23
ZW150-250-25	2020	1570	245	1080	400	490	880	580	660	350	700	1010	30	4×23
ZW200-280-14	1920	1470	270	970	520	650	1090	520	565	350	700	1090	30	4×23
ZW200-280-20	1980	1470	270	970	520	650	1090	520	565	350	700	1090	30	4×23
ZW200-300-25	2020	1570	245	1080	500	650	1090	580	660	350	700	1090	30	4×23
ZW200-280-28	2020	1570	245	1080	500	650	1090	580	660	350	700	1090	30	4×23
ZW250-420-20	2180	1600	325	950	720	800	1330	610	670	430	800	1200	30	4×23
ZW300-800-14	2580	1880	300	1280	800	1030	1500	610	655	530	900	1350	30	4×23



吸入口、排出口法兰尺寸
Inlet and outlet flange size

泵吸入口、排出口法兰尺寸均按0.6MPA国家标准尺寸制造。吸入口如用橡胶联接，则用相同口径的橡胶管即可。
Pump inlet,outletflange size accord to national standards 0.6MPA,ifinlet is connected with rubber,use the samediameter rubber pipeline.



型 号 Type	吸入口法兰尺寸 Inlet flange size							排出口法兰尺寸 Outlet flange size						
	DN1	D1	D11	d1	b1	f1	n1-d01	DN2	D2	D12	d2	b2	f2	n2-d02
ZW25-8-15	25	100	75	60	14	2	4-Φ14	25	100	75	60	14	2	4-Φ14
ZW32-5-20	32	120	90	70	14	2	4-Φ14	32	120	90	70	14	2	4-Φ14
ZW32-10-20	32	120	90	70	14	2	4-Φ14	32	120	90	70	14	2	4-Φ14
ZW32-9-30	32	120	90	70	14	2	4-Φ14	32	120	90	70	14	2	4-Φ14
ZW32-20-12	32	120	90	70	14	2	4-Φ14	32	120	90	70	14	2	4-Φ14
ZW40-10-20	40	130	100	80	14	2	4-Φ14	32	120	90	70	14	2	4-Φ14
ZW40-20-15	40	130	100	80	14	2	4-Φ14	32	120	90	70	14	2	4-Φ14
ZW40-15-30	40	130	100	80	14	2	4-Φ14	32	120	90	70	14	2	4-Φ14
ZW50-10-20	50	140	110	90	14	2	4-Φ14	40	130	100	80	14	2	4-Φ14
ZW50-20-12	50	140	110	90	14	2	4-Φ14	40	130	100	80	14	2	4-Φ14
ZW50-15-30	50	140	110	90	14	2	4-Φ14	40	130	100	80	14	2	4-Φ14
ZW65-15-30	65	160	130	110	14	2	4-Φ14	65	160	130	110	14	2	4-Φ14
ZW65-20-14	65	160	130	110	14	2	4-Φ14	65	160	130	110	14	2	4-Φ14
ZW65-30-18	65	160	130	110	14	2	4-Φ14	65	160	130	110	14	2	4-Φ14
ZW65-25-30	65	160	130	110	14	2	4-Φ14	65	160	130	110	14	2	4-Φ14
ZW65-25-40	65	160	130	110	14	2	4-Φ14	65	160	130	110	14	2	4-Φ14
ZW65-40-25	65	160	130	110	14	2	4-Φ14	65	160	130	110	14	2	4-Φ14
ZW65-65-25	65	160	130	110	14	2	4-Φ18	65	160	130	110	14	2	4-Φ14
ZW65-30-50	65	185	145	122	20	3	4-Φ17.5	65	185	145	122	20	3	4-Φ17.5
ZW80-40-16	80	190	150	125	15	2	4- Φ18	65	160	130	110	14	2	4-Φ14
ZW80-40-25	80	190	150	125	15	2	4-Φ18	65	160	130	110	14	2	4-Φ14
ZW80-25-40	80	190	150	125	15	2	4-Φ18	65	160	130	110	14	2	4-Φ14
ZW80-65-25	80	190	150	125	15	2	4- Φ18	65	160	130	110	14	2	4-Φ14
ZW80-80-35	80	190	150	125	15	2	4- Φ18	65	160	130	110	14	2	4-Φ14
ZW80-40-50	80	200	160	133	22	3	4-Φ17.5	65	185	145	122	50	3	4-Φ17.5
ZW80-50-60	80	200	160	133	22	3	4-Φ17.5	65	185	145	122	50	3	4-Φ17.5
ZW80-80-45	80	200	160	133	22	3	4-Φ17.5	65	185	145	122	50	3	4-Φ17.5
ZW100-100-15	100	210	170	145	15	2	4- Φ18	80	190	150	125	15	2	4-Φ18
ZW100-80-20	100	210	170	145	15	3	4-Φ18	80	190	150	125	15	2	4-Φ18
ZW100-100-20	100	210	170	145	15	3	4- Φ18	80	190	150	125	15	2	4-Φ18
ZW100-100-30	100	210	170	145	15	3	4- Φ18	80	190	150	125	15	2	8-Φ18
ZW100-80-45	100	220	180	158	24	3	8-Φ18	80	200	160	133	22	3	8-Φ17.5
ZW100-80-60	100	220	180	158	24	3	8-Φ18	80	200	160	133	22	3	8-Φ17.5
ZW125-120-20	125	240	200	175	20	3	4-Φ18	125	240	200	175	20	3	8-Φ18
ZW125-200-15	125	240	200	175	20	3	4-Φ18	125	240	200	175	20	3	8-Φ18
ZW150-200-15	150	240	200	175	20	3	4- Φ18	125	240	200	175	20	3	8-Φ18
ZW150-180-20	150	265	225	200	20	3	4-Φ18	125	240	200	175	20	3	8-Φ18
ZW150-180-30	150	265	225	200	20	3	4-Φ18	125	240	200	175	20	3	8-Φ18
ZW150-180-38	150	265	225	200	20	3	4-Φ18	125	240	200	175	20	3	8-Φ18
ZW150-250-25	150	265	225	200	20	3	4-Φ18	125	240	200	175	20	3	8-Φ18
ZW200-280-14	200	320	280	255	22	3	4-Φ18	150	265	225	200	20	3	8-Φ18
ZW200-280-20	200	320	280	255	22	3	4- Φ18	150	265	225	200	20	3	8-Φ18
ZW200-300-25	200	320	280	255	22	3	4-Φ18	150	265	225	200	20	3	8-Φ18
ZW200-280-28	200	320	280	255	22	3	4-Φ18	150	265	225	200	20	3	8-Φ18
ZW250-420-20	250	375	335	310	24	3	12-Φ18	200	320	280	255	22	3	8-Φ18
ZW300-800-14	300	435	395	362	24	4	12-Φ23	250	375	335	310	24	3	12-Φ18

结构及工作原理
Structure and working principle:

ZW系列自吸式无堵塞排污泵，主要由泵体、叶轮、密封盖、机械密封、泵轴、轴承座、进口阀、气液分离管、加水阀门、排接管等组成。泵的结构见图。

泵的工作原理：泵体内设有储液腔，并通过上方的回流孔和下方的循环孔与泵工作腔相通，构成泵的轴向回流外混式系统。泵停止工作后，泵内腔已储有一定容积的液体。当泵起动时，泵内的储液在叶轮的作用下，夹带着空气被向上抛出，液体通过气液分离管的网格回流到工作腔，气体被排出泵外，使泵内形成一不定期的真空度，达到自吸的作用。

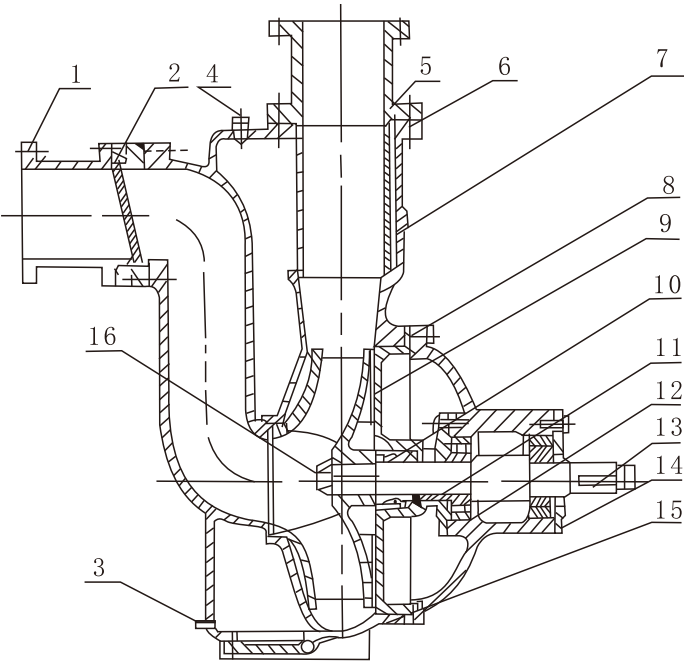
第二次工作时泵吸入口处装有单向逆止阀，因此不需要再加储水即可起动。

ZW series self-priming non-clogging sewage pump is made up of pump body, impeller, back cover, mechanical seal, pump shaft, bearing base, inlet valve, gas-liquid separation tube, adding water valves, outlet and inlet pipelines etc. For the pump structure you can see the chart.

The pump working principle: the pump reservoir with fluid in the body cavity ,and connect with pump working body through the top regurgitant bore and the bottom circular bore ,and constitute a return of axial mixing outside system. After stop working , the pump lumen contains a certain volume of liquid . When start the pump, the liquids in pump was thrown up with the air in the role of the impeller. Liquid reflunce to working lumen through the grid of gas-liquid separation tube. The gas have been discharged , so that the pump come into a certain vacuum, and reach the role of self-priming.

When the second start pump equipped with a one-way check valve at the entrance, so there is no need to add water to start.

泵的结构
Pump structure



1	进口接管 Inlet linked tube	9	叶轮 Impeller
2	进口单向阀 Inlet flange	10	机械密封 Mechanical seal
3	放水孔螺栓 Inlet valve base	11	挡水圈 Water retaining ring
4	加水阀门 Add water valve	12	轴承座 Bearing base
5	出口接管 Outlet linked tube	13	泵 轴 Shaft
6	泵 体 Pump body	14	轴承盖 Bearing cover
7	气液分离管 Gas-liquid Separated tube	15	底盖板 Bottom coverboard
8	密封盖 Closures	16	叶轮螺母螺栓 Impeller nut

安装说明
Installation instructions

- 1、泵在安装前应检查机组紧固件有无松动现象，泵体流道有无异物堵塞，以免水泵运行时损坏叶轮和泵体。
- 2、安装时管道重量不应加在水泵上，以免使泵变形。
- 3、安装时必须拧紧地脚螺栓，以免起动时振动对泵性能的影响。
- 4、为了维修方便和使用安全，在泵的进出口管路上各安装一只调节阀及在泵的出口附近安装一只压力表，保证在额定扬程和流量范围内运行，确保泵正常运行，增长自吸泵的使用寿命。
- 5、吸入管路中的阀门、法兰等应严防漏气或渗液体，即吸入管路绝对不能有漏气现象，否则无法自吸。
- 6、安装后拨动泵轴，叶轮应无磨擦声或卡死现象，否则应将水泵拆开检查原因。

- 1、 Before installing ,pump should be checked whether the fasteners is loose, whether there is plug in the pump body,so as to avoid damage to the impeller and pump body when operating.
- 2、 When installing ,pipeline weight should not be added to the pump body , avoid the pump deformation.
- 3、 When installing must tighten the feet bolt,in order to avoid shaking affect the pump when starting.
- 4、 For easy maintenance and saft using,collocate a control valve both in the inlet and outlet ,near the outlet collocate a pressure gauge, Guarantee the pump running in the range of rated head and rated flow,ensure the pump normal operation, growth in the life of self-priming pump.
- 5、 Prevent the air or liquid leakage of the inlet valve and flange,that is there can not be the phenomenon of leakage in the inlet pipeline,if not ,it can not be self-priming.
- 6、 After installation touch the pump blade,impeller should not have the phenomenon of friction or block.if not ,should take apart the pump to check the reason.

起动前的准备与运行
Preparation and working

- 1、检查泵底座、联轴器、轴承座等连接部位的紧固件有否松动？如有松动应固紧。
 - 2、用手转动联轴器是否有卡滞或异声等现象。
 - 3、打开泵上方的加水阀门，加放储液水不少于泵体容积容积的三分之二，关闭阀门。以后开机不需再灌引水。
 - 4、接上电源试转一下，从电机端看，为顺时针转向。（严禁反转）
 - 5、开机工作，观察泵运行是否正常，若有异常现象，应找出原因，加以排除。
- 1、 Check whether those connected position like base plate, elastic coupling, bearing plate etc is loosen connected. If yes , please fix it.
- 2、 Turn elastic coupling by hand to check whether there is cassette , abnormal noise and other phenomena
- 3、 Open the added water valve in front of the pump, add water more than 2/3 of the pump containing, and then shut the valve. We do not need add water again when start it in the future.
- 4、 Try to turn it after connect electricity, it is for turning clockwise from the electrical sides.(forbidden- reversing)
- 5、 Start working to observe whether pump work normally . If not, please find the reason and get rid of it.

故障与排除

故 障	原 因	排除方法
泵不出水	1、泵体内未加储液或储液不足 2、吸入管路漏气 3、电压过低 4、吸程太高或吸入管路太长 5、机械密封泄漏过大	1、加足 2、消除管路漏气现象 3、调整电压 4、降低吸程或缩短管路 5、修理或更换
泵出水不足	1、因使用不当，叶轮流道或吸入管路被堵塞 2、叶轮磨损严重 3、功率不足转速太低	1、消除堵塞物 2、更换叶轮 3、调整至额定转速
泵噪音、振动过大	1、底脚不稳 2、轴承磨损严重 3、泵与电机主轴不同轴	1、加固 2、更换轴承 3、调整同轴度
轴承温度过高	1、润滑脂变质或干燥 2、轴承损坏	1、更换润滑脂 2、更换
泵泄漏	1、联接螺栓松动 2、密封件磨损	1、固紧 2、更换

Failure and Troubleshooting

Failure	Reason	Troubleshooting
No water out of pump	1、Not add water to pump body or insufficient contained liquid 2、Air leak occurs with suction pipeline 3、Too low voltage 4、Too high suction head or too long suction pipeline 5、Too big leakage mechanical seal	1、Dd sufficient liquid 2、Clear the air leakage phenomenon 3、Adjust voltage 4、Reduce suction head and shorten pipeline 5、Repair or replace
Insufficient water out of pump	1、mpeller or suction pipeline blocked up 2、Too much wearable with impeller 3、O enough power or too low rotary	1、et rid of stem 2、replace impeller 3、Djust to rated rotation speed
Big noise and vibration	1、O steady the bottom 2、Too much wearable with bearing 3、Both pump and motor main axles not on the same axle	1、Pin up it 2、Replace bearing 3、Adjust the in–line height
Bearing over heated	1、Rease lubricant deteriorates or dry 2、Bearing damaged	1、Replace it 2、Replace bearing
Pump leakage	1、Connected bolts loosen 2、Seal damaged	1、Pin up it 2、Replace it

特别提醒
Special remarks

- 1、严禁泵腔内无液空转；

2、检查电机转向是否正确，严禁长时间倒转；

3、禁止泵在汽蚀状态下长期运行；

4、进水管必须严格密封不得漏水、漏气；

5、严禁在低扬程、大流量工况下电机长时间超负荷运行。
- 1,Prohibit the pump operation when there is no liquid in the pump cavity.

2,Check the shift of motor is correct, prohibit long time of reversel.

3,Prohibit the pump long–running in gas cloud state

4,Inlet shall be strictly sealed,prohibition of leakage of gas or liquid.

5,Prohibition of the motor overload running for long in the state of low head and large flow.

装箱附件单
Packing list

本单位产品出厂前均按国家《GB3214–82》《GB3216–82》中的C级精度进行检测合格后方可出厂。

The factory unit products are in accordance with the grade C precision of national《GB3214–82》《GB3216–82》standards andthen the products can be out of factory.

随机携带如下配件：
Carry the following accessories:

- 1、设备文件1份；

2、合格证1份；

3、单向阀1片；

4、出口接管密封圈2条；

5、出口接管1只；

6、加水阀门及接头1套。
- 1、One device file

2、One certification

3、One one–way valve

4、Two outlet tube sealed rings

5、One outlet tube

6、One set of adding water valves and joints