



因为努力,所以我们专业。因为专业,所以我们可靠。

因为可靠,所以客户满意。因为满意,我们铸就辉煌。

展望未来,上海水泵制造有限公司将秉承“**老品牌、新机制、高境界**”的发展理念,奋力开启创新发展的新篇章。

Hard working makes us professional Being professional makes us reliable Being reliable makes customer satisfied Customer's satisfaction bring us future Pump manufacturing co.,LTD. Looking forward to the future, shanghai will be adhering to the “old brand, new mechanism and high level” development concept, to open a new chapter of innovation.

百年传承 泵业专家

Century inheritance Pump specialist

始创于1930年
Been Founded in 1930

我们的承诺 Our commitment

客户的利益>本公司的利益
Customers' benefit>ours' benefit
客户的需求=本公司需求
Customers' demand=ours' demand
客户的风险<本公司风险
Customers' risk<ours' risk

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NW型低加疏水泵

NW SERIES LOW PRESSURE HEATER DRAINAGE PUMP



上海水泵制造有限公司(上海水泵厂)

SHANGHAI PUMP MANUFACTURE CO.,LTD (SHANGHAI PUMP WORKS)

公司简介

上海水泵制造有限公司是领先的流体系统供应商。

结合创新技术和优良服务,为用户提供智能化的解决方案。

上海水泵制造有限公司是由上海电气集团下属上海水泵厂改制而组建的股份制公司,始创于1930年,专业生产各类型泵系统输送产品,是中国泵行业协会副理事长单位,已成为产品范围最广,技术水平最高的泵制造商之一,在各领域享有很高的声誉。是上海市高新技术企业,上海市“专精特新”企业,获“上海名牌”称号。

上海水泵制造有限公司为以下行业提供专业服务:能源、城市给排水和污水处理、工业、冶金、石油、化工、大型农田水利建设、楼宇、泵系统相关设备安装、调试、维修、升级改造、更换和技术咨询服务等众多领域。

上海水泵制造有限公司始终坚持“为客户创造最大价值”为宗旨,实施国际化品牌战略,着力提升产品的品质品位,依托不断创新的技术、先进的经营理念和高素质的员工队伍,为海内外用户提供安全、可靠、高效的泵类产品。

Company Profile

Shanghai Pump Manufacture Co.,Ltd. is the leading supplier in fluid industrial.

By combining innovative technology and excellent service, we offer the intelligentized solution for customers.

Shanghai Pump Manufacture Co.,Ltd. is the share-holding company re-organized from Shanghai Pump Works which was established in 1930 and was the subsidiary of Shanghai Electric Group. Shanghai Pump is specialized in manufacturing all kinds of pump products. And as the vice-chairman of China Pump Association, Shanghai Pump has become the most famous manufacturer in all areas with widest pump products line and highest technology level.

Application and service: Energy, Civil water supply and drainage, Sewage treatment, Industrial, Metallurgy, petroleum, chemical, big irrigation construction, high building, related pump system installation, commission, maintenance, improve and update, replacement and technology consultant etc.

Shanghai Pump Manufacture Co.,Ltd. is always adhering to the intent of creation the maximum value to customers, implementing the strategy of international brand, upgrading products quality level, depending on continuous innovated technology, advanced operation principle and high quality talents team, we supply safety, reliable and high efficient pumps to domestic and oversea customers.



概述

NW型低加疏水泵,用于电厂输送低压加热器疏水,介质温度≤120°C。该系列泵汽蚀性能好,适用于低NPSHr工况的工作条件。

General Description

NW series drainage pump for low presser heater is used for conveying the water in low pressure heater for power station. The temperature of liquid conveied is not over 120°C. This kind of pump is of good NPSH performance. It is suitable for the condition of lower NPSHr.

泵型号意义

125 NW – 65 × 2

—— 级数2级
—— 单级扬程65米
—— 卧式疏水泵
—— 进口直径125毫米

Designation

125 NW – 65 × 2

—— Double stages
—— Single stage head is 65 m
—— The horizontal drainage pump
—— The suction diameter is 125mm

结构说明

NW型低加疏水泵主要由定子、转子、滚动轴承和轴封四大部分组成:

定子部分

卧式节段式:壳体部分主要由进水段、中段、出水段、导叶等零件用拉紧螺栓联接成整体,泵吸入口和吐出口均垂直向上。双级中开式:壳体部分由泵体、泵盖组成。

Structure Instruction

This pump consists of stator, rotor, rolling bearing and shaft seal.

Stator

It is horizontal and sectional design. Inlet section, middle section, outlet section, guide vane and other parts are bolt jointed as casing, pump inlet and outlet are vertically upward. Two stages and split casing, casing includes pump body and cover.

转子部分

转子部分主要由轴及装在轴上的叶轮、轴套、平衡毂等零件组成。轴上零件用键和圆螺母紧固,使之与轴成为一体。整个转子由两端轴承支承在泵壳体上。

轴承部分

轴承部分主要由轴承体和轴承组成。泵在运行中,转子部分在泵壳体中应能自由地轴向窜动,窜动量3-5mm。泵的轴承采用稀油润滑,外接水冷却,轴承部件带有温度计和油位计。

泵的密封

壳体部分的进水段、中段、出水段和尾盖的结合面采用O型橡胶圈或模造纸垫密封。

轴的密封有填料密封和机械密封。

填料密封:主要由填料压盖、填料套、填料和填料环组成。密封工作室内的液体起水密封、水冷却和水润滑作用。

机械密封:主要由机械密封、机械密封压盖组成。

泵的旋转方向

节段式结构从电机(进水端)端往泵看为顺时针方向旋转;双级蜗壳式可顺时针旋转也可逆时针旋转。

Rotor

Rotor mainly consists of shaft, impeller, shaft sleeve, balance hub and other parts. Parts are fastened to shaft by key and round nut. The whole rotor is firmly fixed with two bearings at both ends of shaft.

Bearing

Consists of bearing proper and bearing. Rotor could move freely in axial direction and movement distance range 3-5mm. It is thin oil lubrication and external water cooling and has temperature meter and oil level indicator.

Pump Seal

Inlet section, middle section, outlet section and end cover joint surface apply O type rubber ring or die paper pad seal.

Shaft seal includes packing seal and mechanical seal.

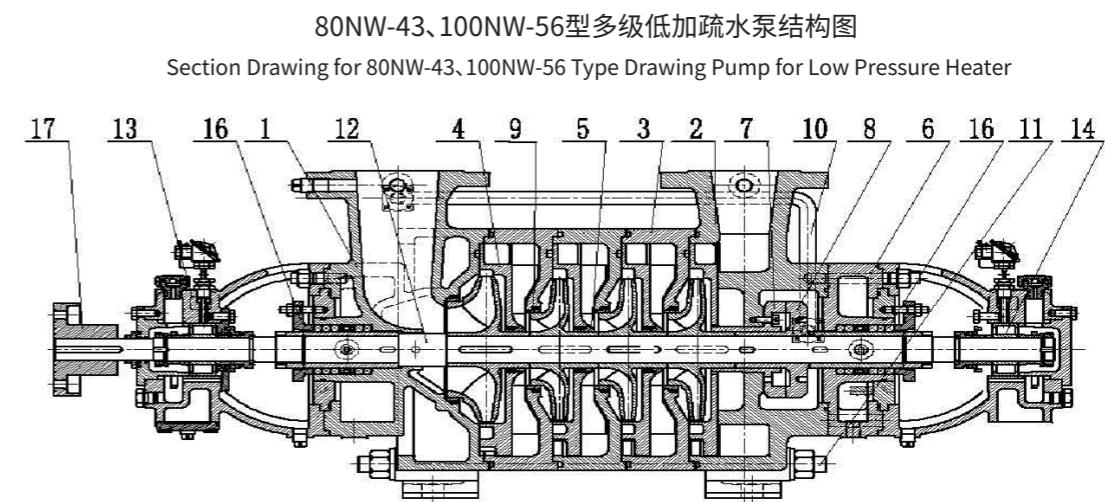
Packing seal consists of packing gland, packing, packing sleeve, and packing ring. The liquid inside of sealing room works as water sealing, cooling and lubricating.

Mechanical seal mainly consists of mechanical seal proper and mechanical seal cover.

Pump rotation direction

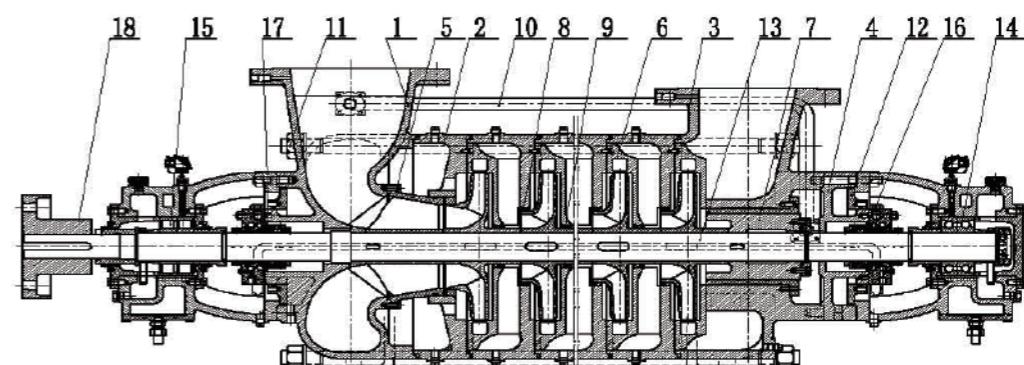
Sectional design: clockwise from motor(inlet end); double stage volute case: both clockwise and counter clockwise are applicable.

NW型泵结构图/Construction Drawing of NW Pumps



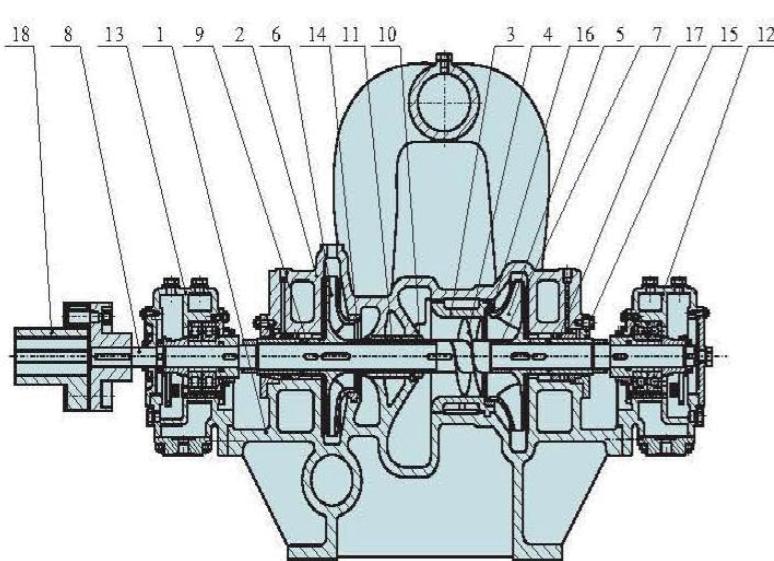
1	进水段	Suction section	10	平衡管	Balance tube
2	中段	Stage section	11	拉紧螺栓	Tighten blot
3	出水段	Discharge section	12	转子部件	Rotor
4	导叶	Guide vane	13	轴承部件甲	Bearing A
5	导叶衬套	Guide vane sleeve	14	轴承部件乙	Bearing B
6	平衡室盖	Balance room cover	15	机械密封部件	Mechanical seal component
7	平衡板	Balance plate	16	填料密封部件	Stuffing sealing component
8	平衡盘	Balance disc	17	联轴器部件	Coupling parts
9	密封环	Seal ring	18		

150NW-28、250NW-44型多级低加疏水泵结构图
Section Drawing for 150NW-28, 250NW-44 Type Drawing Pump for Low Pressure Heater



1	进水段	Suction section	10	平衡管	Balance tube
2	中段	Stage section	11	拉紧螺栓	Tighten blot
3	出水段	Discharge section	12	轴封冷却室盖	Gland seal cavity
4	尾盖	Tail-hood	13	转子部件	Rotor
5	诱导轮室体	Inducer section	14	轴承部件甲	Bearing A
6	导叶	Guide vane	15	轴承部件乙	Bearing B
7	平衡毂	Balance hub	16	机械密封部件	Mechanical seal component
8	密封环	Seal ring	17	填料密封部件	Stuffing sealing component
9	导叶衬套	Guide vane sleeve	18	联轴器部件	Coupling parts

NW型泵结构图/Construction Drawing of NW Pumps

100NW、125NW、150NW、200NW型双级低加疏水泵结构图
Section Drawing for 100NW、125NW、150NW、200NW Type Drawing Pump for Low Pressure Heater

1	泵体	Pump casing
2	泵盖	Casing cover
3	诱导轮室衬套	Sleeve
4	诱导轮	Inducer
5	第一级叶轮	First stage impeller
6	第二级叶轮	Second stage impeller
7	叶轮挡套	Impeller bush
8	轴	Shaft
9	轴套	Shaft sleeve
10	中间轴套	Middle section sleeve
11	级间密封套	Interstage seal sleeve
12	右轴承部件	Right bearing
13	左轴承部件	Left bearing
14	双吸密封环	Double suction seal ring
15	机械密封压盖	Mechanical seal gland
16	密封环	Seal ring
17	机械密封	Mechanical seal
18	弹性联轴套部件	Flexible coupling

NW型泵材料选择表/Material Optional List of NW Pumps

零件名称	Part name	材料	Material Science
泵体	Pump casing	HT250	
泵盖	Casing cover	HT250	
进水段	Suction casing	HT250/QT400-18	
中段	Stage casing	HT250/QT400-18	
出水段	Discharge casing	HT250/QT400-18	
导叶	Guide vane	HT250/QT400-18	
密封环	Seal ring	HT250	
首级叶轮	First stage impeller	ZG1Cr18Ni9/ZG06Cr13Ni4Mo	
次级叶轮	Impeller	HT250/ZG1Cr13	
诱导轮	Inducer	ZCuZn16Si4/ZG06Cr13Ni4Mo	
轴套	Shaft sleeve	45/1Cr18Ni9	
轴	Shaft	45/35CrMo	
平衡鼓	Balance piston	3Cr13	
平衡盘	Balance disc	3Cr13	
轴承体	Bearing body	HT250	

NW型泵性能参数表/Specifications for NW Pumps

型号 Model	流量 Capacity		扬程 Head m	转速 Speed r/min	效率 Efficiency %	必须汽蚀余 NPSHr m	轴功率 Shaft power km	电机功率 Motor power km	重量 Weight kg
	m ³ /h	L/s							
80NW-43×4	28.5	7.92	182	2950	56.5	2.0	25	37	287
	36	10	170		60	2.0	27.8		
	43	11.9	156		61	2.3	29.94		
100NW-56×4	40	11.1	250	2950	58	2.6	46.9	75	425
	53	14.7	220		61	2.6	50.9		
	63	17.5	187		62	3.0	54.8		
150NW-28×8	144	40	248	1450	76	2.0	128.9	185	1295
	180	50	230		78.8	2.7	144.5		
	210	58.3	208		77	3.7	149.9		
250NW-44×5	207	57.5	238	1450	75	1.8	178.9	315	2000
	270	75	231		79	2.5	214.9		
	315	87.5	222		78	3.5	244.1		
100NW-65×2	28	7.8	134	2930	49	1.6	21.3	30	300
	36	10	130		55	1.5	23.2		
	43	11.9	124		59	1.5	24.5		
125NW-65×2	43	11.9	133	2930	58.5	1.6	27	37	333
	57	15.8	130		65	1.5	31		
	67	18.6	125		67	1.5	34		
150NW-78×2	54	15	163	2970	58	1.9	41.3	55	430
	69	19.2	156		61	2.0	48.1		
	82.8	23	145		60.5	3.0	54		
150NW-90×2	104	28.9	190	2980	63.3	2.2	85	110	436
	134	37.2	180		68	2.0	96.5		
	161	44.7	166		68.8	2.5	105.7		
150NW-115×2	78	21.7	245	2980	56	2.2	92.9	132	531
	105	29.2	230		60	2.3	109.6		
	116	32.2	222		59.6	2.5	117.6		
200NW-65×2	150	41.7	139	2950	71.3	2.6	79.6	110	550
	182	50.6	130		74.5	2.5	86.5		
	205	56.9	122		72	2.6	94.6		