

溧阳镇给水工程设计

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摘 要: 这次的设计是为溧阳镇给水工程做的一次给水工艺设计，设计的用水规模为 $90000\text{m}^3/d$ 。随着当今世界新形式的发展以及经济水平的日益提升，由于水源的水质受到轻微的污染，饮用水需求随着居民物质生活的提高而不断增加。为了能够更好地解决这些问题，供水工程必须进行合理设计，经过处理后的水质必须完全符合饮用水卫生标准（GB 5749-2006），确保居民的饮用水安全。

这次设计主要是依据设计规模及相应数据，选择供水设施的位置和水的整个的净化过程。经过一系列的考虑，确定净水流程：取水泵房、往复式隔板絮凝池、平流沉淀池、臭氧接触池、活性炭过滤器（V型过滤器、净化池、吸入井、二次泵）等。完成城市供水系统的设计，主要的组成成分是城市供水管网的设计；为了确保以及满足各个点的供水需求，在这种情况下，完成该水厂的平面布置及高程计算，建筑物和管道网络的平面图，运用CAD软件进行绘制。保证居民日常生活用水的正常，确保居民身体健康。

关键词: 平流沉淀；隔板絮凝；市政管网

Water Supply Engineering Design in Liyang Town

Abstract: This design is a primary water supply process design for Liyang Town water supply project. The designed water consumption scale is. With the development of new forms and the improvement of economic level in the world, the demand for drinking water is increasing with the improvement of people's material life, because the water quality of water source is slightly polluted. In order to better solve these problems, the water supply project must be designed reasonably, and the treated water quality must fully meet the drinking water health standard (GB 5749-2006), so as to ensure the safety of drinking water for residents.

This design is mainly based on the design scale and corresponding data, choose the location of water supply facilities and the whole water purification process. After a series of consideration, the water purification process is determined: water intake pump house, reciprocating diaphragm flocculation tank, horizontal flow sedimentation tank, ozone contact tank, activated carbon filter (V-type filter, purification tank, suction well, secondary pump), etc. To complete the design of urban water supply system, the main component is the design of urban water supply pipe network; in order to ensure and meet the water supply demand of each point, in this case, complete the plane layout and elevation calculation of the water plant, the plan of the building and pipeline network, and use CAD software to draw. To ensure the normal use of water for daily life and the health of residents.

Keywords: Advection sedimentation; Partition flocculation; Municipal pipe network

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