

Water supply and distribution system pdf

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Specific gravity of water is lbs/ft³. This pump would require. The picture below refers to the “distribution main” as a water main and the “service lateral” as a service line. Chapter The water business Introduction. Figure– Service laterals

Approximately 80% of the U.S. population relied on public water supply in 2010; the remainder rely on water from domestic wells. Surface sources account for 10% of all water withdrawals. In 2010, annual U.S. water withdrawal measured 1, 000 m³ per person. Approximately, publicly owned water systems provide piped water for human consumption. Water distribution systems are designed to adequately satisfy the water requirements for a combination of the following demands: Domestic, Industrial, Commercial, and Public. A water distribution system (WDS), being a system of interconnected hydraulic elements ensures water distribution and supply to satisfy demands while maintaining system integrity. This course provides an introduction to selecting water sources and determining water requirements for developing suitable sources of supply from ground or surface sources.

APPLICABILITY. Wp = xx xE =HP or KW. Assume the power rating for the phase pump motor selected is KW. They are typically made of copper or plastic and connect to a distribution main and run to the customer’s parcel, connecting to a water meter. Water treatment facilities suitable for different water sources. Water transmission and distribution. Distribution system is a network of pipelines that distribute water to the consumers. They are designed to adequately satisfy the water requirement for a combination of Water Distribution System. These guidelines are applicable to the selection of water sources and planning and designing supply systems.


REFERENCES The main consideration for system design (fire protection) Fire flow requirements dictate: Water main pipe size Water storage facility size Pumping station capacity. Fire protection requirements set by ISO General Minimum Requirements: Residential mains 12-inch diameter Commercial mains 18-inch diameter Fire hydrant supply 12-inch diameter Example: A pump system design includes a static head of 100 feet, and a flow of 1000 gpm. The water supply industry is vitally important not only to maintain the health of the community but also to ensure the security of water sources.

INTRODUCTION TO WATER SUPPLY.

 Difficulté Très facile

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