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Operators, technicians, and engineers will find the information in this manual useful for gaining a basic understanding of the use and application of air valves. A valuable guide for selecting, sizing, locating, and installing air valves in water applications, M51 provides information on air valve types listed in AWWA Standard C512, latest edition, including the following: air-release valve; air/vacuum valve; and combination air valve.

This manual provides technical information to aid utility managers and engineers in making informed decisions, along with practical information about how methods can be deployed.

Low or negative pressure transients (also called surge or water hammer) create temporary opportunities for external chemical and microbial contaminants at higher pressure to enter the water distribution system, creating potential health hazard and potential weakening of distribution pipes, leading to failure. This study investigates how such events as power outages, pump shutdowns, valve operations, main flushing, firefighting, and main breaks can create significant rapid, temporary drops in system pressure. The report offers useful recommendations for using surge models to optimally locate pressure monitors and to minimize the occurrence and impact from low- and negative-pressure transients.

P. 16.

This manual explains the design, installation, and maintenance of steel water pipe and fittings for potable water service.

This operations manual explains the basic principles of electrical power distribution, automation, and instrumentation in water distribution, treatment, and storage systems. Chapters cover hydraulic and electrical principles, electric motor controls, measurement instruments and displays, pumps and valves, and automatic and digital controls.

An ideal reference for design engineers and operators in water treatment, this manual of water supply practices describes ductile-iron pipe manufacturing, design, hydraulics, pipe wall thickness, corrosion control, installation, supports, fittings and appurtenances, joining, and installation.

Now updated, this manual discusses design, operation, and maintenance of water distribution systems that supply water for fire protection and suppression. Emphasis is placed on public water systems and includes methods of fire protection.

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