Distribution Valves Selection Installation Field Testing And Maintenance M44 Awwa Manual Of Water Supply Practice Manual Of Water Supply Practices

The report of multi-disciplinary team of engineers and practitioners from a research project commissioned by the Association to create a resource to help water utilities operate and maintain water distributions systems to prevent water quality from deteriorating. They look at prevention programs, qu

The American Water Works Association had this guide written to assist those who will choose, locate and/or install air valves for water use (it doesn't contain the AWWA standard, which is a separate publication). The use and principles of air valves are discussed in an introduction, the remainder of

Updated from the 2001 edition, this new manual has expanded equations for eccentricity torque, added torque sign conventions and double offset disc design variables. Water operators receive complete information about the versatile butterfly valve in drinking water service. Engineers and technicians will gain a basic understanding of calculations for operating torque, head loss, and cavitation. Coverage includes valve design, torque, head loss, cavitation, testing, noise, and vibration. (

Effectively managing valves as an asset can have a significant impact both for the water utility and the customer. This revised manual covers valve selection and installation as well as the importance of location, condition, and frequency of operation. The updated figures show commonly used valves and their components, including: globe; butterfly; plug; ball; cone; and gate. Special-use valves are also discussed, but the intent here is only to introduce their availability and applications. The authors incorporate the latest methodologies and technologies for handling, inspecting, shipping, and storing valves and their associated parts. A brief history of valves and an overview of the theory and flow characteristics of valves provides context. Valves are an indispensable component of the water distribution system; they can regulate, modulate or isolate. This manual provides essential information for water operators, technicians, and engineers on this powerful appurtenance.

This AWWA manual of practice provides water professionals with solutions to algae-related problems. Topics covered include identification of algal species, monitoring programs, and best management and treatment strategies.

Annotation A guide to selecting, installing, testing, and maintaining water meters. Coverage includes selecting meter types, impacts on service adequacy, meter installation, testing of meters, and maintenance and repair of displacement meters. Also discusses shop layout and equipment, records, and remote registration. Includes a list of AWWA manuals. This manual discusses recommended practices; it is not an AWWA standard calling for compliance with certain specifications. Can be used by new and existing utilities of all sizes, and by design engineers and consultants. Member price $40.00. Annotation copyrighted by Book News, Inc., Portland, OR.

Providing a reliable supply of water requires being prepared for water shortages of varying degree and duration. What can a municipal water supplier do to mitigate water shortages caused by drought? Preparing for drought and water shortages before they occur is the best defense. This manual will help water managers facing water shortages by illustrating how to employ tried-and-true strategies and tactics of drought mitigation, as well as new tools and methods. Managing water shortages involves temporarily reducing demand and finding alternate water to temporarily increase supply. There are options available to water managers to accomplish this. The manual provides a proven, seven-step process to anticipate and respond to water shortages through a structured planning process.

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.

The revised manual contains new material reflective of isses and changes in this evolving water industry. The manual provides guidance and recommendations on choosing rate structures and setting water rates, fees, and charges which will cover utility costs and future needs. The manual covers all types of rate structures, such as block rates, uniform rates, conservation rates, surcharges, and many others.

Updated from the 1996 edition, this manual provides water supply engineers and operators a single source for information about fiberglass pipe and fittings. New in this edition are the addition of metric equivalents; an expanded discussion of pipe mechanical properties with stress vs. strain curves; Buried Pipe Design chapter has expanded discussion of deflections caused by live loads and soil properties, a second method of determining pipe stiffness, and a new equation for pipe buckling; Guidelines for Underground Installation has additional information on soil backfill considerations and minimum trench width, new information on angularly deflected pipe joints, pressure testing, and a new section on trenching on slopes. (Replaces ISBN: 0-89867-889-7)

Annotation Covering both general and technical information related to PVC use, this illustrated manual discusses the properties of the material, its testing and inspection, hydraulics, design factors, pressure capacity, receiving and storage, installation, testing and maintenance, and service connections. Although intended as an aid to the design, procurement, installation, and maintenance of PVC pipe and fittings, its technical information is not directly correlated to AWAA standards. Appendices feature chemical resistance tables and flow friction loss tables. Annotation copyrighted by Book News, Inc., Portland, OR.

Reliable water quality testing forms the basis for regulatory compliance and ensures the best possible quality drinking water for the community. This manual provides 30 common lab tests for process control in drinking water production. Each test includes purpose of test, equipment list, reagents, simplified methods and procedures, and warnings and cautions.

The manual identifies most of the problem organisms found in water supplies and provides recommendations for removing or inactivating them. Chapters describe and illustrate each organism, explain the types of problems it can cause, and offers suggestions for treatment or control. Nonpathogenic organisms covered include actinomycetes, iron bacteria, sulfur bacteria, nitrifying bacteria, nematodes, bloodworms or midges, crustacea, rotifers, zebra mussels, algae, and protozoa.

Recommended practices, calculations, and data for correctly specifying and using butterfly valves in any water piping system. Second edition.

This Manual of Water Supply Practices provides utility guidance on how to develop an integrated resource plan for ensuring adequate water supplies to accommodate projected future water demands. Covers all topics of water resources planning: demand forecasting, evaluation of potential new source waters, hydrologic modeling, regulatory issues, environmental impact analysis, public involvement, and economic analysis. Includes sample Integrated Resources Plans developed by water utilities.

Specially designed for in-the-field use, this book will pay for itself over and over in the time you save looking for chemical and mathematic formulas, chemical feed rates, US/metric conversions, pipe and equipment data, operational parameters, construction and installation information, OSHA and USEPA regulations, and much more.

Updated from the 1999 edition, this manual provides critical information regarding waterborne viral, bacterial and parasitic pathogens. Each pathogen is described along with its health effects, and water treatment techniques for destroying the pathogens. Also covered are cross-connection control, dead-end flushing, and hydrant flushing. This manual is intended for water operators, engineers, water quality personnel

and students to learn how to monitor, sample and test waters for pathogens, optimize treatment plant performance and maintain high water quality standards. Updated from the 1999 edition, this manual provides critical information regarding waterborne viral, bacterial and parasitic pathogens. Each pathogen is described along with its health effects, and water treatment techniques for destroying the pathogens. Also covered are cross-connection control, dead-end flushing, and hydrant flushing. This manual is intended for water operators, engineers, water quality personnel and students to learn how to monitor, sample and test waters for pathogens, optimize treatment plant performance and maintain high water quality standards.

This manual provides operators, engineers, and other professionals with a basic understanding of groundwater that will help them make decisions on water-well design and operation. The manual covers geology, groundwater movement, groundwater quality, regulatory issues, water-well types and construction, pumps, water treatment, water-well problems, and groundwater recharge and storage.

Provides practical information about the design and installation of ductile iron pressure piping systems for water utilities. The 12 chapters outlines the procedure for calculating pipe wall thickness and class, and describes the types of joints, fittings, valves, linings, and corrosion protection a

Introductory technical guidance for civil and mechanical engineers and water system managers interested in operation and maintenance of water distribution systems. Here is what is discussed: 1. OVERVIEW 2. REFERENCES 3. DISTRIBUTION 4. STORAGE 5. VALVES AND HYDRANTS 6. APPLICABLE PUBLICATIONS.

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.

This manual provides supplemental information to assist engineers and designers in achieving optimum field performance of concrete pressure pipelines. Information and guidelines are provided covering hydraulics, surge pressure, external loads, bedding, and backfilling; designing reinforced concrete pressure pipe, fittings and appurtenances, thrust restraints, pipe on piers, and subaqueous installations; design considerations for corrosive environments; transportation of pipe; trench and tunnel installation; and other pertinent subjects.

Reports on a project that identifies pathogen routes of entry into water distribution systems and develops monitoring and control strategies for protecting the system. Contains chapters on pathogens and pathways, existing control strategies, transient surge modeling, pressure monitoring, field monitoring, recommended control strategies, and recommendations to utilities. The project was completed by a multi-disciplinary team of engineers and practitioners with funding from the American Water Works Association Research Foundation and the Environmental Protection Agency. The book is not indexed. Annotation c. Book News, Inc., Portland, OR (booknews.com)

Water distribution and treatment operators, supervisors, and managers are required to pass certification exams. The most useful way to prepare for these exams is by solving calculations and knowledge problems and by completing practice exams. Solving a problem and immediately finding out the correct answer helps to determine if you worked out the p

Water distribution systems are made up of pipe, valves and pumps through which treated water is moved from the treament plant to homes, offices, industries, and other consumers. The types of materials and equipment used by each water system are usually governed by local conditions, past practices, and economics. Consequently, drinking water professionals must be knowledgeable about common types of equipment and operating methods that are available. Completely revised and updated, Water transmission and distribution includes information on the following: distribution system design and operation and maintenance ; piping materials ; valves, pumps, and water meters ; water main installation ; backfilling, main testing, and installation safety ; fire hyfrants ; water storage ; water services ; cross-connection control ; motors and engines ; instrumentation and control ; information management and public relations.--Cover page [4].

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CD-ROM contains chapter 4 and appendices A & B.

The manual is a complete and current technical guide to designing, installing, operating, and maintaining flexible-membrane covers and linings for potable water reservoirs. It also provides comparative information about different types of membranes to help you evaluate them and choose the right type for your use. The manual is a complete and current technical guide to designing, installing, operating, and maintaining flexible-membrane covers and linings for potable water reservoirs. It also provides comparative information about different types of membranes to help you evaluate them and choose the right type for your use.

AWWA Manual of Water Supply Practice M57 provides all the information required by water treatment professionals to understand and mitigate problems caused by algae in source waters, such as tastes and odors, biofouling, and toxin production. With more than 450 pages and hundreds of photos and illustrations, the manual is a comprehensive reference for identifying and treating algae from drinking water sources.

This study collected information on valves, valve maintenance, and management, and developed a software modeling program for water utilities to develop cost-effective valve management plans. The model can find weaknesses in valve systems, identify critical valves and locations for the addition of new valves, and assess the impacts of the reliability of valves on customer outage. Using this model, it is possible to improve the performance of valve systems cost effectively by adding more valves in the system and improving the maintenance program, and thus, the reliability of valves. Includes CD-ROM with the Strategic Valve Management Model.