

ANSI VALVE LEAKAGE STANDARDS

There are six different seat leakage classifications as defined by ANSI FCI 70-2. The most commonly used by Gemco Valve are CLASS I, CLASS IV and CLASS VI.

CLASS I is also known as dust tight and can refer to metal or resilient seated valves.

CLASS IV is also known as metal to metal. It is the kind of leakage rate you can expect from a valve with a metal shut-off disc and metal seat.

CLASS VI is known as a soft seat classification. Soft Seat Valves are those where the seat or shut-off disc or both are made from some kind of resilient material such as Teflon.

Control Valve Seat Leakage Classifications - ANSI FCI 70-2 superseding ANSI B 16.10-4				
Leakage Class Designation	Maximum Leakage Allowable	Test Medium	Test Pressure	Testing Procedures Required for Establishing Rating
I	XXX	XXX	XXX	No test required provided user and supplier so agree
II	0.5% of rated capacity	Air or water at 50-125 F (10-52C)	45-60 psig or max. operating differential whichever is lower	Pressure applied to valve inlet with outlet open to atmosphere or connected to a low head loss measuring device full normal closing thrust provided by actuator.
III	0.1% of rated capacity	As above	As above	As above
IV	0.01% of rated capacity	As above	As above	As above
V	0.0005 ml per minute of water per inch of port diameter per psi differential	Water at 50to125F (10to52C)	Max service pressure drop across valve plug, not to exceed ANSI body rating.	Pressure applied to valve inlet after filling entire body cavity and connected piping with water and stroking valve plug closed. Use net specified max actuator thrust, but no more, even if available during test. Allow time for leakage flow to stabilize.
VI	Not to exceed amounts shown in following table based on port diameter.	Air or nitrogen at 50 to 125 F (10to52C)	50 psig or max rated differential pressure across valve plug whichever is lower.	Actuator should be adjusted to operating conditions specified with full normal closing thrust applied to valve plug seat. Allow time for leakage flow to stabilize and use suitable measuring device.
Control Valve Seat Leakage Classifications				
NOMINAL PORT DIAMETER	NOMINAL PORT DIAMETER	LEAK RATE	LEAK RATE	
Inches	Millimeters	ml per Minute	Bubbles / minute*	
3	76	0.9	6	
4	102	1.7	11	
6	152	4	27	
8	203	6.75	45	
10	254	9	63	
12	305	11.5	81	

*Bubbles per minute as tabulated are a suggested alternative based on a suitable calibrated measuring device, in this case a 0.25-inch OD X 0.032-inch wall tube submerged in water to a depth of from 1.8 to 1.4 inch. The tube end shall be cut square and smooth with no chamfers or burrs. The tube axis shall be perpendicular to the surface of the water. Other measuring devices may be constructed and the number of bubbles per minute may differ from those shown as long as they correctly indicate the flow in milliliters per minute.

Ansi Valve Leakage Standards

American Nuclear Society



Ansi Valve Leakage Standards:

Management of Hazardous Energy Thomas Neil McManus, 2016-04-19 Hazardous energy present in systems machines and equipment has injured maimed and killed many workers One serious injury can stop the growth of your business in its tracks Management of Hazardous Energy Deactivation De Energization Isolation and Lockout provides the practical tools needed to assess hazardous energy in equipment machines and systems and covers how to manage hazardous energy through elimination or control in order to ensure worker safety and regulatory compliance Written in plain English with a minimum of jargon this book provides safety professionals with the knowledge they need to interact with specialists designers and engineers to ensure that appropriate and necessary protocols and safety practices and tools are put into place for assessing the dangers and steps taken to eliminate or control exposure to hazardous energy when needed Approaching the subject from the bottom up the author starts at the workplace level to ensure that the right actions happen for the right reasons The book explains a protocol for describing the flow of energy including transformation and or storage for capturing the logic of decisions about control including failure analysis and contingency planning and ultimately for creating procedures that are technically sound and defensible Creating simple procedures for ensuring worker safety and regulatory compliance the book offers US and international strategies for hazardous energy management and contains examples to illustrate the application of concepts to specific areas

The Valve Buyer's Guide, 1991 **Code of Federal Regulations**, 2000 **1980 Catalog of American National Standards** American National Standards Institute, 1980 **Valve Handbook** Philip Skousen, 2004-06-22 The valve industry has become increasingly digitized over the past five years This revised second edition reflects those developments by focusing on the latest processing plant applications for smart valve technology Updated information on testing agencies and the latest code changes Contents Introduction to Valves Valve Selection Criteria Manual Valves Control Valves Manual Operators and Actuators New Smart Valve Technology Smart Valve and Positioners Valve Sizing Actuator Sizing Common Valve Problems Abbreviations of Related Organizations and Standards

USA Standards American National Standards Institute, 1983 [Code of Federal Regulations, Title 42, Public Health, PT. 1-399, Revised as of October 1, 2014](#) National Institutes of Health (U S), National Institutes of Health (U S), 2014-12-12 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government This print ISBN represents the official U S Federal Government edition 42 CFR Parts 1 399 primarily features the National Institutes of Health within the U S Department of Health and Human Services In this volume you will find protection of identity research subjects designation of health professionals shortage areas National Library of Medicine senior biomedical research service medical care and examinations hospital and station management personnel other than commissioned officers disaster assistance for crisis counseling and training medical examination of aliens grants for maternal child health preventive services community health

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Valve Selection and Specification Guide Ronald C. Merrick,1991-01-10 Today people who specify or select valves spend over two thirds of their time researching literature for information on valve sizing availability materials and standards This is nonproductive time Unfortunately most companies do not have the luxury of a team of experts with the necessary experience and education in all of the different fields that apply to valves The next best alternative is to understand what valves are and all the things they can do By definition valves are devices that stop start mix or change the direction and or magnitude of the fluid flow pressure or its tempera ture As a specifier or selector you will have to determine whether the valve is going to be used for flow control throttling or for on off service Then you will have to determine the cycle life or frequency of their operation You will discover that valves are classified into three categories on off valves control or regulator valves and fixed valves such as orifice plate nozzle duckbill rupture disk blind valve etc These valves represent approximately thirty different design configurations It has been said that if cost and delivery were no problem anyone of the seven basic valve styles could do the job of any other one But cost and delivery are very important factors in the real world So you have to be able to distinguish among these seven styles ball butterfly gate globe pinch diaphragm plug and poppet valves

Nondestructive Evaluation in the Nuclear Industry, 1980 American Society for Metals,1981

Catalogue and Classification of Technical Safety Standards, Rules and Regulations for Nuclear Power Reactors and Nuclear Fuel Cycle Facilities Norbert Fichtner,K. Becker,M. Bashir,1977

Handbook of Valves and Actuators Brian Nesbitt,2007-08-02 Industries which use pumps seals and pipes will almost certainly also use valves in their systems Someone in each industry needs to be able to design purchase or maintain the right valve for the job in hand and that can amount to a lot of valves world wide Here is a single resource which is aimed at those designers and end users plus their engineering staff Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail found in this volume Its international approach is no accident it will have world wide take up Ideal reference for industry Practical approach compared with competition Buyers guide included

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