



Basic O Ring Elastomers Summitseal

Leonard J. Martini



Basic O Ring Elastomers Summitseal:

O-ring Installation for Underwater Components and Applications C. J. Sandwith, 1982 Practical Seal Design Leonard J. Martini, 2018-05-04 This compact on the job handbook provides all the practical and theoretical information to design elastomeric O ring seals for the full range of static reciprocating and rotary functions Complete with fully illustrated detailed examples to guide you step by step through virtually every seal design situation Practical Seal Design provides thorough coverage of ring seal geometry material compound capability material performance and design methods detailed design considerations including stretch swell shrinkage and blowout prevention as well as innovations to extend seal life span and minimize system hysteresis unmatched treatment of piston cylinder seal and shaft seal design and clearly elucidated specifications for military aerospace and industrial standards With quick access features to facilitate prompt proper and effective design Practical Seal Design is an essential single source reference for mechanical manufacturing industrial automotive aeronautical and ocean engineers Furthermore this one of a kind work is an excellent reference text for professional seminars on hydrodynamic pneumatic and mechanical engineering systems and undergraduate mechanical design courses

Gland Design, O-ring and Other Elastomeric Seals A-6C2 Seals Committee, 2005 This SAE Aerospace Standard AS provides standardized gland groove design criteria and dimensions for elastomeric seal glands for static and dynamic applications The glands have been specifically designed for applications using SAE AS568 size O rings with related class 2 tolerances at pressures exceeding 1500 psi 10 342 kPa utilizing one or two anti extrusion backup rings and applications at pressures under 1500 psi 10 342 kPa without backup rings The glands have been sized to provide sufficient squeeze for effective sealing while at the same time limiting squeeze to allow satisfactory operation in dynamic applications While this specification covers the basic design criteria and recommendations for use with standard size O rings these glands are also suitable for use with other elastomeric and polytetrafluoroethylene PTFE based seals and packings Design Data for O-rings and Similar Elastic Seals Frank W. Tipton, 1956

Evaluation of Elastomers as O-ring Seals for Liquid Rocket Fuel and Oxidizer Systems Carmen L. Bellanca, Ival O. Salyer, Jay C. Harris, 1963 Elastomeric and plastic O ring seals were exposed to liquid and vapor phases of nitrogen tetroxide chlorine trifluoride 1 1 mixture of hydrazine unsymmetrical dimethylhydrazine and 90% hydrogen peroxide under in use conditions Materials included polyethylene Teflon butyl ethylene propylene Vitons A and B were tested under compression in closed static system in direct contact with text fluid The rate of fluid loss through the seal was determined directly Text method and results are described Polyethylene encapsulated O rings and metal clad elastomeric O rings as seals for nitrogen tetroxide systems are also discussed page iii

ELASTOMER COMPATIBILITY CONSIDERATIONS RELATIVE TO O - RING AND SEALANT SELECTION A-6C Power Generation and Distribution Committee, A-6C2 Seals Committee, 1992 This document contains data relative to the chemical nature of aerospace fluids and relates each to its effect upon elastomeric components Since the compatibilities of

elastomers are determined by the compounding as well as the nature of the base polymer the elastomers considered are limited to finished compounds for which material or performance specifications could be referenced

Elastomer O-ring Seals for Static Applications at Low Temperatures Richard Norman Herring,1962 *O-Ring Groove Design for Packing Preformed, Elastomeric O-Ring Seals, Static, Axial Compression, Metric* A-6C2 Seals Committee,2012 This recommended practice provides the design criteria for static elastomeric O ring seal applications axial compression face type groove dimensions for aerospace metric O ring sizes specified in MA2010 The conditions considered to formulate the design criteria are also described e g seal squeeze and groove volume to accommodate O ring swell MAP3439 has been reaffirmed to comply with the SAE five year review policy *AEROSPACE STANDARD, GLAND DESIGN, O-RING AND OTHER ELASTOMERIC SEALS* A-6C2 Seals Committee,1993 This SAE Aerospace Standard provides standardized gland groove design criteria and dimensions for elastomeric seal glands for static and dynamic applications The glands have been specifically designed for applications using SAE AS568 size O rings at pressures exceeding 1500 psi utilizing one or two anti extrusion backup rings and applications at pressures under 1500 psi without backup rings The glands have been sized to provide sufficient squeeze for effective sealing while at the same time limiting squeeze to allow satisfactory operation in dynamic applications While specifically designed for standard size O rings these glands are also to be used with other elastomeric seals *Gland Design, Elastomeric O-Ring Seals, General Considerations* A-6C2 Seals Committee,2017 This document establishes general gland design criteria for static and dynamic O ring seal applications used in fluid systems and at fluid pressures common to the aerospace industry Detailed discussion of design criteria and tables of recommended gland dimensions are contained in the documents listed in Table 1 SI unit conversions for U S customary units have been provided for reference purposes Figures 1 and 2 redrawn for better clarity Reference to ARP1235 ARP1236 and ARP1237 deleted as documents never produced table 2 redrawn to remove metric dimensions section added to show reference documents and MIL H 5606 corrected to MIL PRF 5606

Gland Design, Elastomeric O-Ring Seals, General Considerations E-25 General Standards for Aerospace and Propulsion Systems,2012 This document establishes general gland design criteria for static and dynamic O ring seal applications used in fluid systems and at fluid pressures common to the aerospace industry Detailed discussion of design criteria and tables of recommended gland dimensions are contained in the documents listed in Table 1 S I unit conversions for U S customary units have been provided for reference purposes ARP1231A has been reaffirmed to comply with the SAE five year review policy

GLAND DESIGN, ELASTOMERIC O-RING SEALS, STATIC RADIAL AND FACE 800 PSI MAXIMUM SERVICE AE-5B Aircraft and Engine Fuel and Lubricant Sys Components,2007 This document establishes standard gland dimensions for low pressure static radial O ring seal applications and provides recommendations for modifying these glands in special applications No provisions are made in this document for anti extrusion devices *Gland Design, Elastomeric O-Ring Seals, Dynamic Radial, 1500 Psi Max* A-6C2 Seals Committee,2012

This document establishes standard gland design criteria and dimensions for dynamic radial O ring seal applications and provides recommendations for modifying these glands in special applications There are no provisions in this document for anti extrusion devices ARP1233A has been reaffirmed to comply with the SAE five year review policy Determination of Spring Modulus for Several Types of Elastomeric Materials (O-rings) and Establishment of an Open Database for Seals ,1995 Seals that provide the containment system interface between the packaging body and closure must function in high and low temperature environments under dynamic and static loading conditions and with different types of contained media It is one of the most critical elements in the container since the container fails to meet regulations if the seal does not function properly A research and testing program for seal materials was initiated at Sandia in 1988 with the goal of characterizing the behavior of seal materials commonly used in packages conditions as specified in the regulations NRC IOCFR Part 71 and American National Standards Institute ANSI 14.5 The performance of elastomeric seals in undeformed closures at both high and low temperatures has been investigated Bronowski 1995 Work has begun with this program to determine the response of elastomeric seals to fast acting dynamic deformations in the closure The response of elastomeric o ring seals during closure movements due to long term deformations has already been characterized What has not been well characterized are short term closure movements with durations of only a few milliseconds that result in the so called burp release Methods for generating this type of response in a repeatable manner had not been developed and standard leak detection equipment does not have a fast enough response time to measure these transient events One factor which affects the length of the burp is the ability of the o ring to quickly close the gap to prevent a significant leak The dynamic characteristics of the elastomeric o ring material including the dynamic spring modulus and internal damping are directly related to its ability to quickly close the gap A set of tests designed to determine the dynamic properties for various material types and durometers hardness of elastomers that were both lubricated and dry at ambient temperature were conducted

Gland Design, O-Ring and Other Elastomeric Seals, Static Applications A-6C2 Seals Committee,2022 This SAE Aerospace Standard AS provides standardized gland groove design criteria and dimensions for elastomeric seal glands for static applications The glands have been specifically designed for applications using SAE AS568 size O rings at pressures exceeding 1500 psi 10.3 MPa utilizing one or two anti extrusion backup rings and applications at pressures under 1500 psi 10.3 MPa without backup rings The glands have been sized to provide increased squeeze as compared to AS4716 for more effective sealing at low temperatures and low seal swell conditions These glands are not recommended for dynamic use Primary usage is for static external sealing The rod dimensions are the same as AS4716 The cylinder bore dimensions are the same as AS4716 except for sizes 001 thru 011 and 104 thru 113 AS5857A has been reaffirmed to comply with the SAE Five Year Review policy

Fracture and Aging of Elastomeric O-ring Seals C. A. Stevens, University of Bath, 1988 **Prediction of the Remanent Life of Elastomer O-ring Seals** Ralph Rizk, 2002

GLAND DESIGN, ELASTOMERIC O-RING SEALS, STATIC RADIAL A-6C2

Seals Committee,1973 This document establishes standard gland dimensions for static radial O ring seal applications and provides recommendations for modifying these glands in special applications No provisions are made in this document for anti extrusion devices SI unit conversions for U S customary units have been provided for reference purposes *Properties of Elastomeric Toroidal Sealing Rings (O Rings) Manufactured from Fluorosilicone Rubber Material Released to Bsf 154. Specification* British Standards Institute Staff,2006-10-31 Aircraft components Toroidal sealing rings Sealing rings Seals Synthetic rubber Elastomers Grades quality Immersion tests corrosion Hardness Density Compression set Dimensional changes Volume Quality assurance **Properties of Elastomeric Toroidal Sealing Rings (O Rings) Manufactured from Ethylene-Propylene Rubber Material Conforming to BS F 156. Specification** British Standards Institute Staff,2006-10-31 Aircraft components Toroidal sealing rings Sealing rings Seals Ethylene propylene rubber Synthetic rubber Elastomers Grades quality Immersion tests corrosion Hardness Density Compression set Dimensional changes Volume Quality assurance

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