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AS28772™

FEDERAL SUPPLY CLASS
5330

RATIONALE

THE TITLE AND SCOPE HAVE CHANGED TO INCLUDE THE MATERIAL DESCRIPTION. THE REFERENCES HAVE BEEN UPDATED AND SOME EDITORIAL IMPROVEMENTS AND CORRECTIONS HAVE BEEN MADE.

1. SCOPE

THIS STANDARD ESTABLISHES THE DIMENSIONAL AND VISUAL QUALITY REQUIREMENTS, LOT REQUIREMENTS, AND PACKAGING AND LABELING REQUIREMENTS FOR D-RINGS MOLDED FROM MIL-P-25732 ACRYLONITRILE BUTADIENE (NBR) RUBBER.

IT SHALL BE USED FOR PROCUREMENT PURPOSES.

1.1 APPLICATION

THESE D-RINGS ARE TYPICALLY USED AS ROD SEALS IN SHOCK STRUTS. THEY SHOULD NOT BE USED IN CONJUNCTION WITH ANY HYDRAULIC FLUID OTHER THAN THAT CONFORMING TO MIL-PRF-5606. THESE D RINGS HAVE A SERVICE TEMPERATURE RANGE OF -65 TO +160 °F (-54 TO +71 °C).

2. APPLICABLE REFERENCES

2.1 SAE PUBLICATIONS

AVAILABLE FROM SAE INTERNATIONAL, 400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096-0001, TEL: 877-606-7323 (INSIDE USA AND CANADA) OR +1 724-776-4970 (OUTSIDE USA), [WWW.SAE.ORG](http://www.sae.org).

AMS2817 PACKAGING AND IDENTIFICATION OF MOLDED ELASTOMERIC SEALS AND SEALING COMPONENTS

AS4716 GLAND DESIGN, O-RING AND OTHER SEALS

AS5316 STORAGE OF ELASTOMER SEALS AND SEAL ASSEMBLIES WHICH INCLUDE AN ELASTOMER ELEMENT PRIOR TO HARDWARE ASSEMBLY

2.2 U.S. GOVERNMENT PUBLICATIONS

COPIES OF THESE DOCUMENTS ARE AVAILABLE ONLINE AT [HTTPS://QUICKSEARCH.DLA.MIL](https://quicksearch.dla.mil).

MIL-G-5514 GLAND DESIGN, PACKINGS, HYDRAULIC, GENERAL REQUIREMENTS FOR (INACTIVE FOR NEW DESIGNS)

MIL-P-25732 PACKING, PREFORMED, PETROLEUM FLUID RESISTANT, LIMITED SERVICE AT 275 DEG. F (135 DEG. C)

MIL-PRF-5606 HYDRAULIC FLUID, PETROLEUM BASE; AIRCRAFT, MISSILE, AND ORDNANCE

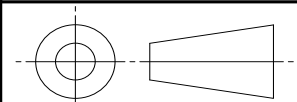
2.3 ASQ PUBLICATIONS

AVAILABLE FROM AMERICAN SOCIETY FOR QUALITY, 600 NORTH PLANKINTON AVENUE, MILWAUKEE, WI 53203, TEL: 800-248-1946 (UNITED STATES OR CANADA), 001-800-514-1564 (MEXICO), OR +1-414-272-8575 (ALL OTHER LOCATIONS), [WWW.ASQ.ORG](http://www.asq.org).

ANSI/ASQ Z1.4 SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

For more information on this standard, visit
<https://www.sae.org/standards/content/AS28772C/>

THIRD ANGLE PROJECTION



CUSTODIAN: A-6/A-6C2



AEROSPACE STANDARD

(R) "D" RING SEAL FOR SHOCK STRUTS MOLDED FROM MIL-P-25732 ACRYLONITRILE BUTADIENE (NBR) MATERIAL

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2.4 ASME AND ISO PUBLICATIONS

COPIES OF THESE DOCUMENTS ARE AVAILABLE ONLINE AT [HTTP://WEBSTORE.ANSI.ORG/](http://webstore.ansi.org/).

ASME Y14.5 2009 DIMENSIONING AND TOLERANCING

ISO 3601-1 FLUID POWER SYSTEMS – O-RINGS – PART 1: INSIDE DIAMETERS, CROSS-SECTIONS, TOLERANCES AND DESIGNATION CODES

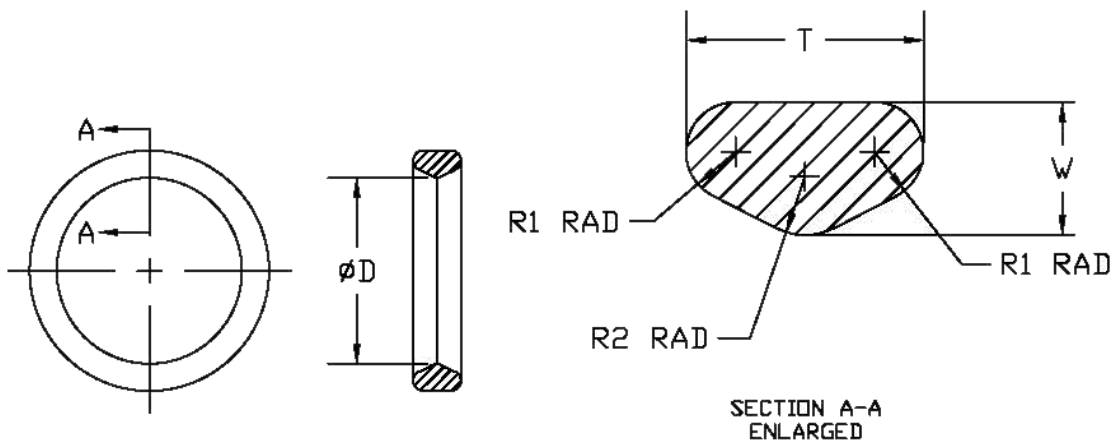
ISO 3601-3 FLUID POWER SYSTEMS – O-RINGS – PART 3: QUALITY ACCEPTANCE CRITERIA

3. D-RING PART NUMBERS, DIMENSIONS, AND MASSES

FIGURE 1 ILLUSTRATES THE D-RING DIMENSIONS THAT ARE USED IN THIS STANDARD.

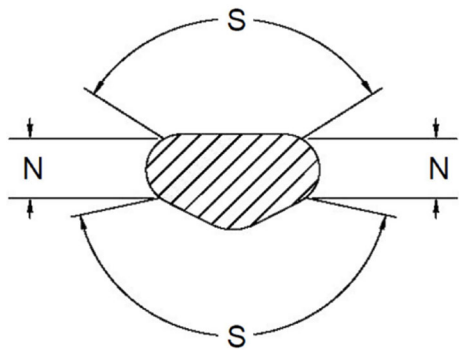
FIGURE 2 ILLUSTRATES THE SURFACE REQUIREMENTS OF THE FINISHED D-RINGS.

TABLE 1 PROVIDES THE PART NUMBERS, DIMENSIONS, AND APPROXIMATE MASSES.



NOTE: DIMENSIONS AND TOLERANCES AS PER ASME Y14.5-2009

FIGURE 1 - D-RING CONTROLLED DIMENSIONS



KEY:
S = CRITICAL SURFACES
N = SECONDARY SURFACES
(APPROXIMATE LOCATIONS SHOWN)

FIGURE 2 - D-RING CONTROLLED SURFACES

	AEROSPACE STANDARD	AS28772™ SHEET 2 OF 4	REV. C
	(R) "D" RING SEAL FOR SHOCK STRUTS MOLDED FROM MIL-P-25732 ACRYLONITRILE BUTADIENE (NBR) MATERIAL		