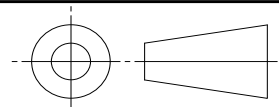


REV. A	RATIONALE		FEDERAL SUPPLY CLASS 5331																		
	THIS STANDARD WAS TRANSFERRED FROM E-25 TO A-6 AND HAS BEEN REVISED TO MAKE ITS FORMAT CONSISTENT WITH OTHER A-6 O-RING PART STANDARDS.																				
AS3569™	1. SCOPE THIS STANDARD ESTABLISHES THE DIMENSIONAL AND VISUAL QUALITY REQUIREMENTS, LOT REQUIREMENTS, AND PACKAGING AND LABELING REQUIREMENTS FOR O-RINGS MOLDED FROM AMS7270 (MATERIAL NAME) RUBBER. IT SHALL BE USED FOR PROCUREMENT PURPOSES.																				
	1.1 APPLICATION THESE O- RINGS HAVE BEEN USED TYPICALLY FOR SEALING AT TEMPERATURES AS LOW AS -67 °F (-55 °C) WHERE RESISTANCE TO FUEL IS REQUIRED, BUT USAGE IS NOT LIMITED TO SUCH APPLICATIONS. EACH APPLICATION SHOULD BE CONSIDERED SEPARATELY.																				
2. APPLICABLE REFERENCES THE FOLLOWING PUBLICATIONS FORM A PART OF THIS DOCUMENT TO THE EXTENT SPECIFIED HEREIN. THE LATEST ISSUE OF SAE PUBLICATIONS SHALL APPLY. THE APPLICABLE ISSUE OF OTHER PUBLICATIONS SHALL BE THE ISSUE IN EFFECT ON THE DATE OF THE PURCHASE ORDER. IN THE EVENT OF CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND REFERENCES CITED HEREIN, THE TEXT OF THIS DOCUMENT TAKES PRECEDENCE. NOTHING IN THIS DOCUMENT, HOWEVER, SUPERSEDES APPLICABLE LAWS AND REGULATIONS UNLESS A SPECIFIC EXEMPTION HAS BEEN OBTAINED.																					
2.1 SAE PUBLICATIONS AVAILABLE FROM SAE INTERNATIONAL, 400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096-0001, TEL: 877-606-7323 (INSIDE USA AND CANADA) OR 724-776-4970 (OUTSIDE USA), WWW.SAE.ORG. <table border="0"> <tr> <td>AMS2817</td> <td>PACKAGING AND IDENTIFICATION OF MOLDED ELASTOMERIC SEALS AND SEALING COMPONENTS</td> </tr> <tr> <td>AMS7270</td> <td>RINGS, SEALINGS, BUTADIENE-ACRYLONITRILE (NBR) RUBBER FUEL RESISTANT 65 - 75</td> </tr> <tr> <td>AS1299</td> <td>ADAPTER - PORT CONNECTION RING LOCKED TO FLARELESS TUBE END</td> </tr> <tr> <td>AS1300</td> <td>PORT - RING LOCKED FLUID CONNECTION TYPE STANDARD DIMENSIONS FOR</td> </tr> <tr> <td>AS1985</td> <td>FITTING, ASSEMBLY, ADAPTER RING LOCKED PORT CONNECTION TO FLARED TUBE END</td> </tr> <tr> <td>AS1986</td> <td>FITTING ASSEMBLY, ADAPTER RING LOCKED PORT CONNECTION TO BEAM SEAL 4000 PSI AND 5000 PSI /9/</td> </tr> <tr> <td>AS4099</td> <td>ADAPTER, ASSEMBLY - PORT CONNECTION RING LOCKED TO FLARELESS TUBE END</td> </tr> <tr> <td>AS4383</td> <td>FITTING ASSEMBLY, REDUCER RING LOCKED PORT CONNECTION TO BEAM SEAL 5000 PSI /8/</td> </tr> <tr> <td>AS5316</td> <td>STORAGE OF ELASTOMER SEALS AND SEAL ASSEMBLIES WHICH INCLUDE AN ELASTOMER ELEMENT PRIOR TO HARDWARE ASSEMBLY</td> </tr> </table>				AMS2817	PACKAGING AND IDENTIFICATION OF MOLDED ELASTOMERIC SEALS AND SEALING COMPONENTS	AMS7270	RINGS, SEALINGS, BUTADIENE-ACRYLONITRILE (NBR) RUBBER FUEL RESISTANT 65 - 75	AS1299	ADAPTER - PORT CONNECTION RING LOCKED TO FLARELESS TUBE END	AS1300	PORT - RING LOCKED FLUID CONNECTION TYPE STANDARD DIMENSIONS FOR	AS1985	FITTING, ASSEMBLY, ADAPTER RING LOCKED PORT CONNECTION TO FLARED TUBE END	AS1986	FITTING ASSEMBLY, ADAPTER RING LOCKED PORT CONNECTION TO BEAM SEAL 4000 PSI AND 5000 PSI /9/	AS4099	ADAPTER, ASSEMBLY - PORT CONNECTION RING LOCKED TO FLARELESS TUBE END	AS4383	FITTING ASSEMBLY, REDUCER RING LOCKED PORT CONNECTION TO BEAM SEAL 5000 PSI /8/	AS5316	STORAGE OF ELASTOMER SEALS AND SEAL ASSEMBLIES WHICH INCLUDE AN ELASTOMER ELEMENT PRIOR TO HARDWARE ASSEMBLY
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2.2 ASQ PUBLICATIONS AVAILABLE FROM AMERICAN SOCIETY FOR QUALITY, 600 NORTH PLANKINTON AVENUE, MILWAUKEE, WI 53203 OR 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/AS3569A/		THIRD ANGLE PROJECTION 																			
CUSTODIAN: SAE A-6C2 SEALS PANEL		PROCUREMENT SPECIFICATION																			
		AEROSPACE STANDARD (R) O-RING MOLDED FROM AMS7270 BUTADIENE-ACRYLONITRILE (NBR) RUBBER MATERIAL																			
		AS3569™ SHEET 1 OF 13	REV. A																		

2.3 ASME PUBLICATIONS

AVAILABLE FROM ASME, TWO PARK AVENUE, NEW YORK, NY 10016-5990, TEL: 800-843-2763,
WWW.CUSTOMERCARE@ASME.ORG.

ASME Y14.5 DIMENSIONING AND TOLERANCING REQUIREMENTS

2.4 ISO PUBLICATIONS

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

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

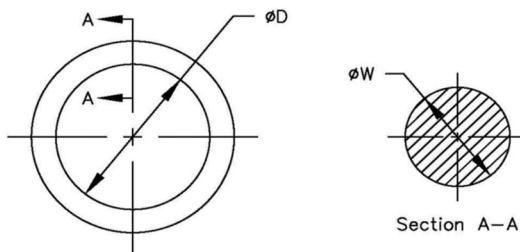
ISO 3601-3 FLUID POWER SYSTEMS – O-RINGS – PART 3: QUALITY ACCEPTANCE CRITERIA

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

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

TABLE 1 PROVIDES THE PART NUMBERS, DIMENSIONS AND APPROXIMATE MASSES FOR AEROSPACE STANDARD SIZE O-RINGS.

TABLE 2 PROVIDES THE PART NUMBERS, DIMENSIONS AND APPROXIMATE MASSES FOR STRAIGHT THREAD TUBE FITTING BOSS GASKETS.



NOTE: DIMENSIONS AND TOLERANCES AS PER ASME Y14.5

FIGURE 1 - O-RING DIMENSIONS: WIDTH (øW) AND INSIDE DIAMETER (øD)

	AEROSPACE STANDARD	AS3569™ SHEET 2 OF 13	REV. A
	(R) O-RING MOLDED FROM AMS7270 BUTADIENE-ACRYLONITRILE (NBR) RUBBER MATERIAL		



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TABLE 1 - PART NUMBERS, DIMENSIONS, AND MASSES

NOTE	PART NUMBER	ØD (IN)		ØD (MM)		ØW (IN)		ØW (MM)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
	AS3569-001	.025	.033	.64	.84	.037	.043	.94	1.09	.0005	.0002
	AS3569-002	.038	.046	.97	1.17	.047	.053	1.19	1.35	.0012	.001
	AS3569-003	.052	.060	1.32	1.52	.057	.063	1.45	1.60	.002	.001
	AS3569-004	.065	.075	1.65	1.91	.067	.073	1.70	1.85	.004	.002
	AS3569-005	.096	.106	2.44	2.69	.067	.073	1.70	1.85	.005	.002
	AS3569-006	.109	.119	2.77	3.02	.067	.073	1.70	1.85	.006	.003
	AS3569-007	.140	.150	3.56	3.81	.067	.073	1.70	1.85	.008	.004
	AS3569-008	.171	.181	4.34	4.60	.067	.073	1.70	1.85	.010	.004
	AS3569-009	.203	.213	5.16	5.41	.067	.073	1.70	1.85	.012	.005
(A)	AS3569-010	.234	.244	5.94	6.20	.067	.073	1.70	1.85	.013	.006
	AS3569-011	.296	.306	7.52	7.77	.067	.073	1.70	1.85	.017	.008
	AS3569-012	.359	.369	9.12	9.37	.067	.073	1.70	1.85	.020	.009
	AS3569-013	.421	.431	10.69	10.95	.067	.073	1.70	1.85	.024	.011
	AS3569-014	.484	.494	12.29	12.55	.067	.073	1.70	1.85	.027	.012
	AS3569-015	.544	.558	13.82	14.17	.067	.073	1.70	1.85	.031	.014
	AS3569-016	.605	.623	15.37	15.82	.067	.073	1.70	1.85	.034	.016
	AS3569-017	.667	.685	16.94	17.40	.067	.073	1.70	1.85	.038	.017
	AS3569-018	.730	.748	18.54	19.00	.067	.073	1.70	1.85	.041	.019
	AS3569-019	.792	.810	20.12	20.57	.067	.073	1.70	1.85	.045	.020
	AS3569-020	.855	.873	21.72	22.17	.067	.073	1.70	1.85	.048	.022
	AS3569-021	.917	.935	23.29	23.75	.067	.073	1.70	1.85	.052	.023
	AS3569-022	.979	.999	24.87	25.37	.067	.073	1.70	1.85	.055	.025
	AS3569-023	1.041	1.061	26.44	26.95	.067	.073	1.70	1.85	.059	.027
	AS3569-024	1.104	1.124	28.04	28.55	.067	.073	1.70	1.85	.062	.028
	AS3569-025	1.165	1.187	29.59	30.15	.067	.073	1.70	1.85	.066	.030
(B)	AS3569-026	1.228	1.250	31.19	31.75	.067	.073	1.70	1.85	.069	.031
	AS3569-027	1.290	1.312	32.77	33.32	.067	.073	1.70	1.85	.073	.033
	AS3569-028	1.351	1.377	34.32	34.98	.067	.073	1.70	1.85	.076	.035
	AS3569-029	1.476	1.502	37.49	38.15	.067	.073	1.70	1.85	.083	.038
	AS3569-030	1.601	1.627	40.67	41.33	.067	.073	1.70	1.85	.090	.041
	AS3569-031	1.724	1.754	43.79	44.55	.067	.073	1.70	1.85	.097	.044
	AS3569-032	1.849	1.879	46.96	47.73	.067	.073	1.70	1.85	.104	.047
	AS3569-033	1.971	2.007	50.06	50.98	.067	.073	1.70	1.85	.111	.050
	AS3569-034	2.096	2.132	53.24	54.15	.067	.073	1.70	1.85	.118	.054
	AS3569-035	2.221	2.257	56.41	57.33	.067	.073	1.70	1.85	.125	.057
	AS3569-036	2.346	2.382	59.59	60.50	.067	.073	1.70	1.85	.132	.060
	AS3569-037	2.471	2.507	62.76	63.68	.067	.073	1.70	1.85	.139	.063
	AS3569-038	2.594	2.634	65.89	66.90	.067	.073	1.70	1.85	.146	.066
	AS3569-039	2.719	2.759	69.06	70.08	.067	.073	1.70	1.85	.153	.069
	AS3569-040	2.844	2.884	72.24	73.25	.067	.073	1.70	1.85	.160	.073
	AS3569-041	2.965	3.013	75.31	76.53	.067	.073	1.70	1.85	.167	.076
	AS3569-042	3.215	3.263	81.66	82.88	.067	.073	1.70	1.85	.181	.082
	AS3569-043	3.465	3.513	88.01	89.23	.067	.073	1.70	1.85	.195	.088
	AS3569-044	3.712	3.766	94.28	95.66	.067	.073	1.70	1.85	.209	.095
	AS3569-045	3.962	4.016	100.63	102.01	.067	.073	1.70	1.85	.223	.101
	AS3569-046	4.209	4.269	106.91	108.43	.067	.073	1.70	1.85	.237	.108
	AS3569-047	4.459	4.519	113.26	114.78	.067	.073	1.70	1.85	.251	.114
	AS3569-048	4.709	4.769	119.61	121.13	.067	.073	1.70	1.85	.265	.120
	AS3569-049	4.952	5.026	125.78	127.66	.067	.073	1.70	1.85	.279	.127
	AS3569-050	5.202	5.276	132.13	134.01	.067	.073	1.70	1.85	.293	.133



AEROSPACE STANDARD

(R) O-RING MOLDED FROM AMS7270 BUTADIENE-ACRYLONITRILE (NBR) RUBBER MATERIAL

AS3569™
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TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

NOTE	PART NUMBER	ØD (IN)		ØD (MM)		ØW (IN)		ØW (MM)		APPROX MASS	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	(LB/100)	(KG/100)
(A)	AS3569-102	.044	.054	1.12	1.37	.100	.106	2.54	2.69	.006	.003
	AS3569-103	.076	.086	1.93	2.18	.100	.106	2.54	2.69	.010	.004
	AS3569-104	.107	.117	2.72	2.97	.100	.106	2.54	2.69	.014	.006
	AS3569-105	.138	.148	3.51	3.76	.100	.106	2.54	2.69	.017	.008
	AS3569-106	.169	.179	4.29	4.55	.100	.106	2.54	2.69	.021	.010
	AS3569-107	.201	.211	5.11	5.36	.100	.106	2.54	2.69	.025	.011
	AS3569-108	.232	.242	5.89	6.15	.100	.106	2.54	2.69	.029	.013
	AS3569-109	.294	.304	7.47	7.72	.100	.106	2.54	2.69	.036	.016
	AS3569-110	.357	.367	9.07	9.32	.100	.106	2.54	2.69	.044	.020
	AS3569-111	.419	.429	10.64	10.90	.100	.106	2.54	2.69	.051	.023
	AS3569-112	.482	.492	12.24	12.50	.100	.106	2.54	2.69	.059	.027
	AS3569-113	.542	.556	13.77	14.12	.100	.106	2.54	2.69	.066	.030
	AS3569-114	.603	.621	15.32	15.77	.100	.106	2.54	2.69	.074	.034
	AS3569-115	.665	.683	16.89	17.35	.100	.106	2.54	2.69	.082	.037
	AS3569-116	.728	.746	18.49	18.95	.100	.106	2.54	2.69	.089	.040
	AS3569-117	.789	.809	20.04	20.55	.100	.106	2.54	2.69	.097	.044
	AS3569-118	.852	.872	21.64	22.15	.100	.106	2.54	2.69	.104	.047
	AS3569-119	.914	.934	23.22	23.72	.100	.106	2.54	2.69	.112	.051
	AS3569-120	.977	.997	24.82	25.32	.100	.106	2.54	2.69	.119	.054
	AS3569-121	1.039	1.059	26.39	26.90	.100	.106	2.54	2.69	.127	.058
	AS3569-122	1.102	1.122	27.99	28.50	.100	.106	2.54	2.69	.134	.061
	AS3569-123	1.162	1.186	29.51	30.12	.100	.106	2.54	2.69	.142	.064
	AS3569-124	1.225	1.249	31.12	31.72	.100	.106	2.54	2.69	.150	.068
	AS3569-125	1.287	1.311	32.69	33.30	.100	.106	2.54	2.69	.157	.071
	AS3569-126	1.350	1.374	34.29	34.90	.100	.106	2.54	2.69	.165	.075
	AS3569-127	1.412	1.436	35.86	36.47	.100	.106	2.54	2.69	.172	.078
	AS3569-128	1.475	1.499	37.46	38.07	.100	.106	2.54	2.69	.180	.082
	AS3569-129	1.534	1.564	38.96	39.73	.100	.106	2.54	2.69	.187	.085
	AS3569-130	1.597	1.627	40.56	41.33	.100	.106	2.54	2.69	.195	.089
	AS3569-131	1.659	1.689	42.14	42.90	.100	.106	2.54	2.69	.202	.092
	AS3569-132	1.722	1.752	43.74	44.50	.100	.106	2.54	2.69	.210	.095
	AS3569-133	1.784	1.814	45.31	46.08	.100	.106	2.54	2.69	.218	.099
	AS3569-134	1.847	1.877	46.91	47.68	.100	.106	2.54	2.69	.225	.102
	AS3569-135	1.908	1.942	48.46	49.33	.100	.106	2.54	2.69	.233	.106
	AS3569-136	1.970	2.004	50.04	50.90	.100	.106	2.54	2.69	.240	.109
	AS3569-137	2.033	2.067	51.64	52.50	.100	.106	2.54	2.69	.248	.113
	AS3569-138	2.095	2.129	53.21	54.08	.100	.106	2.54	2.69	.255	.116
	AS3569-139	2.158	2.192	54.81	55.68	.100	.106	2.54	2.69	.263	.119
	AS3569-140	2.220	2.254	56.39	57.25	.100	.106	2.54	2.69	.271	.123
	AS3569-141	2.280	2.320	57.91	58.93	.100	.106	2.54	2.69	.278	.126
	AS3569-142	2.342	2.382	59.49	60.50	.100	.106	2.54	2.69	.286	.130
	AS3569-143	2.405	2.445	61.09	62.10	.100	.106	2.54	2.69	.293	.133
	AS3569-144	2.467	2.507	62.66	63.68	.100	.106	2.54	2.69	.301	.137
	AS3569-145	2.530	2.570	64.26	65.28	.100	.106	2.54	2.69	.308	.140
	AS3569-146	2.592	2.632	65.84	66.85	.100	.106	2.54	2.69	.316	.143
	AS3569-147	2.653	2.697	67.39	68.50	.100	.106	2.54	2.69	.324	.147
	AS3569-148	2.715	2.759	68.96	70.08	.100	.106	2.54	2.69	.331	.150
	AS3569-149	2.778	2.822	70.56	71.68	.100	.106	2.54	2.69	.339	.154