

REV.
A

AS83461/2

RATIONALE

THIS REVISION CORRECTS A TYPOGRAPHICAL ERROR IN PARAGRAPH 3 OF THE ORIGINAL ISSUE AS83461/2.

ALL DIAMETERS OF CROSS SECTION SHALL EQUAL W

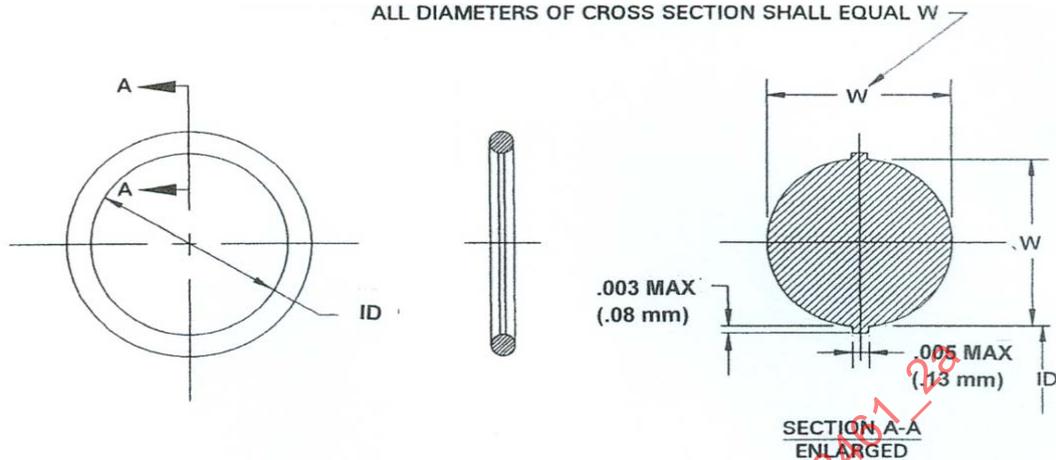


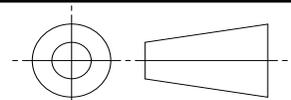
FIGURE 1

TABLE 1

PART NUMBER	TUBE OUTSIDE DIAMETER		ID (IN)		ID (MM)		W (IN)		W (MM)		APPROX MASS	
	IN	MM	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	LB/100	KG/100
M83461/2-901	.094	2.39	.190	.180	4.83	4.57	.059	.053	1.50	1.35	.006	0.003
M83461/2-902	.125	3.18	.244	.234	6.20	5.94	.067	.061	1.70	1.55	.011	0.005
M83461/2-903	.188	4.78	.306	.296	7.77	7.52	.067	.061	1.70	1.55	.013	0.006
M83461/2-904	.250	6.35	.356	.346	9.04	8.79	.075	.069	1.91	1.75	.020	0.009
M83461/2-905	.312	7.92	.419	.409	10.64	10.39	.075	.069	1.91	1.75	.023	0.011
M83461/2-906	.375	9.53	.473	.463	12.01	11.76	.081	.075	2.06	1.90	.031	0.014
M83461/2-907	.438	11.13	.537	.523	13.64	13.28	.085	.079	2.16	2.01	.039	0.018
M83461/2-908	.500	12.70	.653	.635	16.59	16.13	.090	.084	2.29	2.13	.053	0.024
M83461/2-909	.562	14.27	.715	.697	18.16	17.70	.100	.094	2.54	2.39	.073	0.033
M83461/2-910	.625	15.88	.764	.746	19.41	18.95	.100	.094	2.54	2.39	.078	0.035
M83461/2-911	.688	17.48	.872	.854	22.15	21.69	.120	.112	3.05	2.85	.126	0.057
M83461/2-912	.750	19.05	.933	.915	23.70	23.24	.120	.112	3.05	2.85	.135	0.061
M83461/2-913	.812	20.62	.996	.976	25.30	24.79	.120	.112	3.05	2.85	.145	0.066
M83461/2-914	.875	22.23	1.057	1.037	26.85	26.34	.120	.112	3.05	2.85	.153	0.070
M83461/2-916	1.000	25.40	1.181	1.161	30.00	29.49	.120	.112	3.05	2.85	.172	0.078
M83461/2-918	1.125	28.58	1.367	1.343	34.72	34.11	.120	.112	3.05	2.85	.199	0.090
M83461/2-920	1.250	31.75	1.489	1.461	37.82	37.11	.122	.114	3.10	2.90	.224	0.102
M83461/2-924	1.500	38.10	1.734	1.706	44.04	43.33	.122	.114	3.10	2.90	.261	0.118
M83461/2-928	1.750	44.45	2.108	2.072	53.54	52.63	.122	.114	3.10	2.90	.317	0.144
M83461/2-932	2.000	50.80	2.356	2.319	59.82	58.90	.122	.114	3.10	2.90	.354	0.161

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS83461/2A>

THIRD ANGLE PROJECTION



CUSTODIAN: A-6/A-6C

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

O-RING M83461 STRAIGHT THREAD TUBE FITTING BOSS

AS83461/2
SHEET 1 OF 3

REV.
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ISSUED 2009-09 REVISED 2014-03

APPLICATION:

THESE O-RINGS TYPICALLY HAVE BEEN USED AS SEALS ON STRAIGHT-THREADED, FLARED -TUBE CONNECTION FITTINGS IN AEROSPACE APPLICATIONS FOR CONTACT WITH AIR AND HYDRAULIC FLUIDS CONFORMING TO MIL-PRF-83282 AND MIL-PRF-87257 AND IN LAND VEHICLE APPLICATIONS FOR CONTACT WITH AIR AND HYDRAULIC FLUIDS CONFORMING TO MIL-PRF-83282, MIL-PRF-46170 AND MIL-PRF-87257 BUT USAGE IS NOT LIMITED TO SUCH APPLICATIONS. EACH APPLICATION SHOULD BE CONSIDERED SEPARATELY. THESE O-RINGS HAVE A SERVICE TEMPERATURE RANGE OF -65 TO +275 °F (-54 TO +135 °C).

APPLICABLE REFERENCES:

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.

- AMS2817 PACKAGING AND IDENTIFICATION, PREFORMED PACKINGS
- AMS-P-83461 PACKING, PREFORMED, PETROLEUM HYDRAULIC FLUID RESISTANT, IMPROVED PERFORMANCE AT 275°F (135°C)
- ARP5316 STORAGE OF ELASTOMER SEALS AND SEAL ASSEMBLIES WHICH INCLUDE AN ELASTOMER ELEMENT PRIOR TO HARDWARE ASSEMBLY

U.S. GOVERNMENT PUBLICATIONS

AVAILABLE FROM DLA DOCUMENT SERVICES, BUILDING 4/D, 700 ROBBINS AVENUE, PHILADELPHIA, PA 19111-5094, TEL: 215-697-6396, <http://quicksearch.dla.mil/>.

- MIL-PRF-46170 HYDRAULIC FLUID, FIRE RESISTANT, SYNTHETIC HYDROCARBON BASE
- MIL-PRF-83282 HYDRAULIC FLUID, FIRE RESISTANT, SYNTHETIC HYDROCARBON BASE, AIRCRAFT, METRIC
- MIL-PRF-87257 HYDRAULIC FLUID, PETROLEUM BASE, FOR PRESERVATION AND OPERATION

ASQ PUBLICATIONS

AVAILABLE FROM AMERICAN SOCIETY FOR QUALITY, 600 NORTH PLANKINTON AVENUE, MILWAUKEE, WI 53203, TEL: 800-248-1946 (UNITED STATES OR CANADA) OR +1-414-272-8575 (INTERNATIONAL), www.asq.org.

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

REQUIREMENTS:

1. MATERIAL: THE MATERIAL SHALL BE IN ACCORDANCE WITH AMS-P-83461.
2. DIMENSIONAL AND VISUAL INSPECTION: PRIOR TO INSPECTION, MOLD FLASH SHALL BE REMOVED FROM THE O-RINGS IN SUCH A MANNER THAT THEY CONFORM TO THE REQUIREMENTS SPECIFIED HEREIN. IT IS RECOMMENDED PURCHASERS SPECIFY THE ISO 3601-3 GRADE BE USED WITH A SAMPLING PLAN ON THE PURCHASE ORDER. AS5752 IS RECOMMENDED FOR USE AS THE ACCEPTANCE CRITERIA FOR OTHER (NON O-RING) AEROSPACE ELASTOMERIC SEALS. THE SAMPLE SIZE SHALL BE IN ACCORDANCE WITH INSPECTION LEVEL II OF ANSI/ASQ Z1.4 WITH AQL OF 1.0 EXCEPT THAT THE ACCEPTANCE NUMBER SHALL BE ZERO. EXAMINATION FOR DIMENSIONAL DEFECTS SHALL BE MADE TO THE TOLERANCES SPECIFIED ABOVE. THE SAMPLE SIZE SHALL BE IN ACCORDANCE WITH INSPECTION LEVEL II OF ANSI/ASQ Z1.4 WITH AQL OF 1.0 EXCEPT THAT THE ACCEPTANCE NUMBER SHALL BE ZERO. IF THE PURCHASER REQUIRES A DIFFERENT SAMPLING PLAN OR VISUAL INSPECTION CRITERIA, PURCHASER AND MANUFACTURER SHALL AGREE PRIOR TO TIME OF ORDER.
3. LOT ACCEPTANCE: THE REQUIREMENTS ARE LISTED IN AMS-P-83461. THE LOT CERTIFICATION REPORT SHALL BE FURNISHED TO THE PURCHASER WHEN THE PRODUCT IS SHIPPED.

THE MANUFACTURER OF THE O-RINGS SHALL BE RESPONSIBLE FOR THE REQUIRED INSPECTIONS AND LOT ACCEPTANCE TESTS. PURCHASER RESERVES THE RIGHT TO SAMPLE AND PERFORM ANY CONFIRMATORY INSPECTION DEEMED NECESSARY TO ENSURE THAT THE O-RINGS CONFORM TO THE SPECIFIED REQUIREMENTS.

PART NUMBER: THE O-RING PART NUMBERS ARE DESIGNATED AS M83461/2-9XX, WHERE 9XX INDICATES THE DASH SIZE.

	AEROSPACE STANDARD	AS83461/2 SHEET 2 OF 3	REV. A
	O-RING M83461 STRAIGHT THREAD TUBE FITTING BOSS		