

**Boss Dimensions for Military Straight Thread Tube Fitting O-ring Gaskets per AS5202 (Supersedes AND10049, AND10050 and MS33649)**

Parker O-ring Size No.*	Actual O-Ring Dimensions		Equiv. Tube Dash No.	Tube OD Min.	Thread T Per Mil-S-8879	A Dia. +.015 -.000	B Full Thd. Depth	C Dia.	D Dia. +.005 -.000	E +.015 -.000	G Dia. Min.	J Min.	N
	W	ID											
3-901	.056 ± .003	.185 ± .005	1	—	.2500-28UNJF-3B	0.359	0.330	0.062	0.264	0.063	0.478	0.402	0.002
3-902	.064 ± .003	.239 ± .005	2	.125	.3125-24UNJF-3B	0.438	0.482	0.062	0.328	0.063	0.602	0.577	0.003
3-903	.064 ± .003	.301 ± .005	3	.188	.3750-24UNJF-3B	0.500	0.538	0.125	0.390		0.665	0.583	
3-904	.072 ± .003	.351 ± .005	4	.250	.4375-20UNJF-3B	0.562	0.568	0.172	0.454	0.075	0.728	0.656	
3-905	.072 ± .003	.414 ± .005	5	.312	.5000-20UNJF-3B	0.625		0.234	0.517		0.790		
3-906	.078 ± .003	.468 ± .005	6	.375	.5625-18UNJF-3B	0.688	0.598	0.297	0.580	0.083	0.852	0.709	0.004
3-907	.082 ± .003	.530 ± .007	7	.438	.6250-18UNJF-3B	0.750	0.614	0.360	0.643	0.094	0.915	0.725	
3-908	.087 ± .003	.644 ± .009	8	.500	.7500-16UNJF-3B	0.875	0.714	0.391	0.769		0.107	1.040	0.834
3-909	.097 ± .003	.706 ± .009	9	.562	.8125-16UNJ-3B	0.938	0.730	0.438	0.832	1.102		0.850	
3-910	.097 ± .003	.755 ± .009	10	.625	.8750-14UNJF-3B	1.000	0.802	0.484	0.896	1.165		0.960	
3-911	.116 ± .004	.863 ± .009	11	.688	1.0000-12UNJF-3B	1.156	0.877	0.547	1.023	0.125	1.352	1.064	0.008
3-912	.116 ± .004	.924 ± .009	12	.750	1.0625-12UNJ-3B	1.234		0.609	1.086		1.415		
3-914	.116 ± .004	1.047 ± .010	14	.875	1.1875-12UNJ-3B	1.362		0.734	1.211		1.540		
3-916	.116 ± .004	1.171 ± .010	16	1.000	1.3125-12UNJ-3B	1.487		0.844	1.336		1.665	1.116	0.010
3-918	.116 ± .004	1.355 ± .012	18	1.125	1.5000-12UNJF-3B	1.675		0.953	1.524		1.790		
3-920	.118 ± .004	1.475 ± .014	20	1.250	1.6250-12UNJ-3B	1.800		1.078	1.648		1.978		
3-924	.118 ± .004	1.720 ± .014	24	1.500	1.8750-12UNJ-3B	2.050		1.312	1.898		2.228	1.127	0.010
3-928	.118 ± .004	2.090 ± .018	28	1.750	2.2500-12UNJ-3B	2.425	1.547	2.273	2.602	1.243			
3-932	.118 ± .004	2.337 ± .018	32	2.000	2.5000-12UNJ-3B	2.675	0.907	1.781	2.524	2.852	1.368		

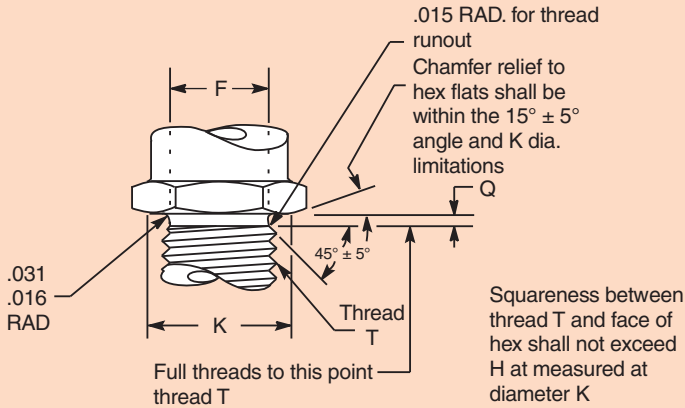
\*Parker dash numbers correspond with those of AS568A

**Design Table 4-3: Boss Dimensions for Military Straight Thread Tube Fitting O-ring Gaskets per AS5202 (Supersedes AND10049, AND10050 and MS33649)**

**WARNING:** These products can expose you to chemicals including carbon black (airborne and extracts), antimony trioxide, titanium dioxide, silica (crystalline), di(2-ethylhexyl)phthalate, ethylene thiourea, acrylonitrile, 1,3-butadiene, epichlorohydrin, toluenediisocyanate, tetrafluoroethylene, ethylbenzene, formaldehyde, furfuryl alcohol, glass fibers, methyl isobutyl ketone, nickel (metallic and compounds), lead and lead compounds which are known to the State of California to cause cancer; and 1,3-butadiene, epichlorohydrin, di(2-ethylhexyl)phthalate, di-isodecyl phthalate, ethylene thiourea, methyl isobutyl ketone, methanol, toluene, lead and lead compounds which are known to the State of California to cause birth defects and other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Tube Fitting Boss Seals

Use fitting end per AS4395



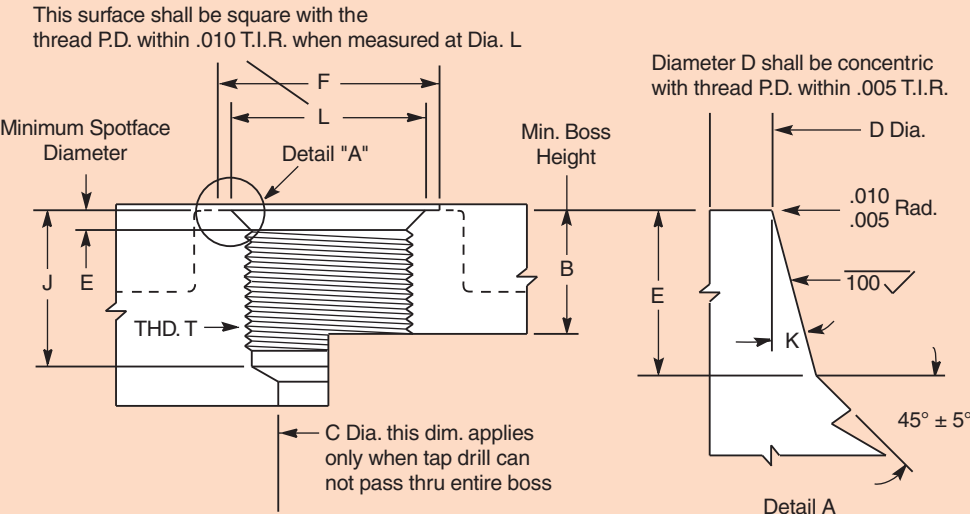
Fitting End AS4395 Used with J1926/1 and AS5202 Bosses (Supercedes MS 33656)  
(Only the dimensions that define the O-ring Cavity are shown below.)

Parker O-ring Size No.	Tubing OD	Thread T		E Dimension Across Hex Flats		F +.002 -.003	H Max.	K Dia. ±.010	G +.015 -.000
3-902	1/8	5/16-24	UNF-3A	.563	+.003 -.004	.250	.005	.549	.063
3-903	3/16	3/8-24		.625		.312		.611	.063
3-904	1/4	7/16-20		.688		.364		.674	.075
3-905	5/16	1/2-20		.750		.426		.736	.075
3-906	3/8	9/16-18		.813		.481		.799	.083
3-908	1/2	3/4-16		1.000		.660		.986	.094
3-910	5/8	7/8-14	UNJ-3A	1.125	±.016 ±.020	.773	.008	1.111	.107
3-912	3/4	1 1/16-12		1.375		.945		1.361	.125
3-914*	7/8	1 3/16-12		1.500		1.070		1.475	
3-916	1	1 5/16-12		1.625		1.195		1.599	
3-920	1 1/4	1 5/8-12		1.875		1.507		1.879	
3-924	1 1/2	1 7/8-12		2.125		1.756		2.095	
3-932	2	2 1/2-12		2.750		2.381		2.718	

\*No fitting end for the 3-914 O-ring size is included in AS4395, but the dimensions shown here follow the same pattern.  
Design Table Table 4-4: Fitting end AS4395 used with J1926/1 and AS5202 bosses (only the dimensions that define the O-ring cavity are shown.)

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Tube Fitting Boss Seals



Finished tapered counterbore (Detail A) shall be free from longitudinal and spiral tool marks. Annular tool marks up to 100 micro-inches maximum will be permissible.

Boss Dimensions for Industrial Straight Thread Tube Fittings  
O-Ring Gaskets per SAE J1926

Parker O-Ring Size	Actual O-Ring Dimensions		Tube OD	Thread T		B Min. Thread Depth	C Min.	D +.005 -.000	E +.015 -.000	F Min.	J Min.	K ±1°	L Min.
	W	ID											
3-902	.064 ± .003	.239 ± .005	1/8	5/16-24	UNF-2B	.390	.062	.358	.074	.672	.468	12°	.438
3-903	.064 ± .003	.301 ± .005	3/16	3/8-24		.390	.125	.421	.074	.750	.468	12°	.500
3-904	.072 ± .003	.351 ± .005	1/4	7/16-20		.454	.172	.487	.093	.828	.547	12°	.563
3-905	.072 ± .003	.414 ± .005	5/16	1/2-20		.454	.234	.550	.093	.960	.547	12°	.625
3-906	.078 ± .003	.468 ± .005	3/8	9/16-18		.500	.297	.616	.097	.906	.609	12°	.688
3-908	.087 ± .003	.644 ± .009	1/2	3/4-16	UN-2B	.562	.391	.811	.100	1.188	.688	15°	.875
3-910	.097 ± .003	.755 ± .009	5/8	7/8-14		.656	.484	.942	.100	1.344	.781	15°	1.000
3-912	.116 ± .004	.924 ± .009	3/4	1 1/16-12		.750	.609	1.148	.130	1.625	.906	15°	1.250
3-913	.116 ± .004	.986 ± .010	13/16										
3-914	.116 ± .004	1.047 ± .010	7/8	1 3/16-12		.750	.719	1.273	.130	1.765	.906	15°	1.375
3-916	.116 ± .004	1.171 ± .010	1	1 5/16-12	UN-2B	.750	.844	1.398	.130	1.910	.906	15°	1.500
3-918	.116 ± .004	1.355 ± .012	1 1/8										
3-920	.118 ± .004	1.475 ± .014	1 1/4	1 5/8-12		.750	1.078	1.713	.132	2.270	.906	15°	1.875
3-924	.118 ± .004	1.720 ± .014	1 1/2	1 7/8-12		.750	1.312	1.962	.132	2.560	.906	15°	2.125
3-932	.118 ± .004	2.337 ± .018	2	2 1/2-12		.750	1.781	2.587	.132	3.480	.906	15°	2.750

Design Table 4-5: Boss Dimensions for Industrial Straight Thread Tube Fitting O-ring Gaskets Per SAE J1926

**WARNING:** These products can expose you to chemicals including carbon black (airborne and extracts), antimony trioxide, titanium dioxide, silica (crystalline), di(2-ethylhexyl)phthalate, ethylene thiourea, acrylonitrile, 1,3-butadiene, epichlorohydrin, toluenediisocyanate, tetrafluoroethylene, ethylbenzene, formaldehyde, furfuryl alcohol, glass fibers, methyl isobutyl ketone, nickel (metallic and compounds), lead and lead compounds which are known to the State of California to cause cancer; and 1,3-butadiene, epichlorohydrin, di(2-ethylhexyl)phthalate, di-isodecyl phthalate, ethylene thiourea, methyl isobutyl ketone, methanol, toluene, lead and lead compounds which are known to the State of California to cause birth defects and other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).