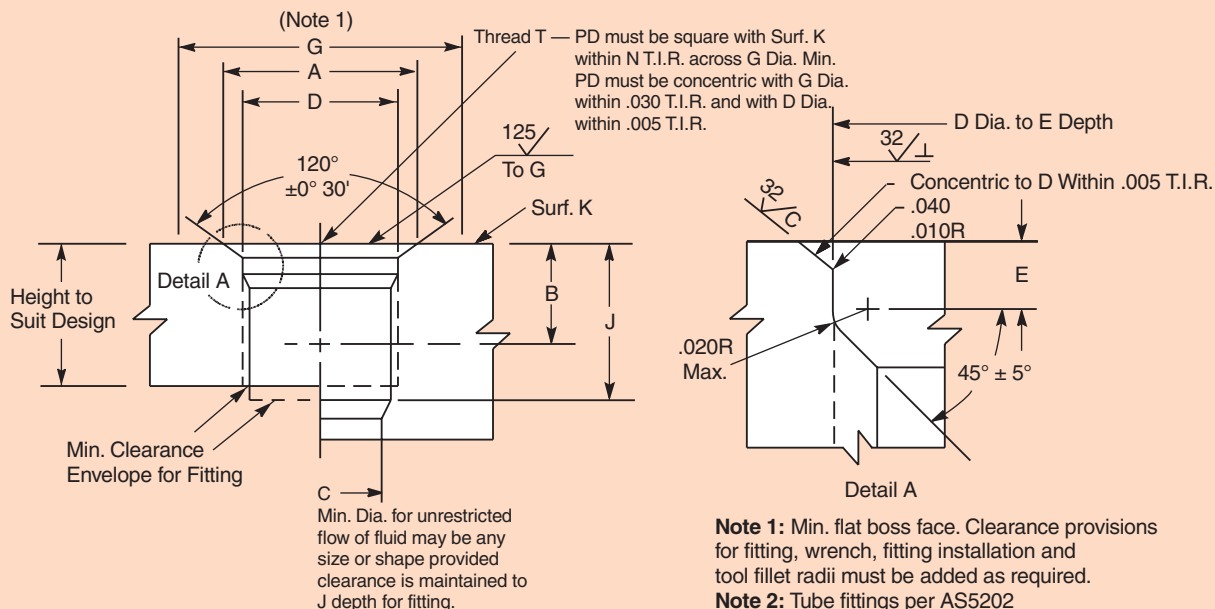


Tube Fitting Boss Seals



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

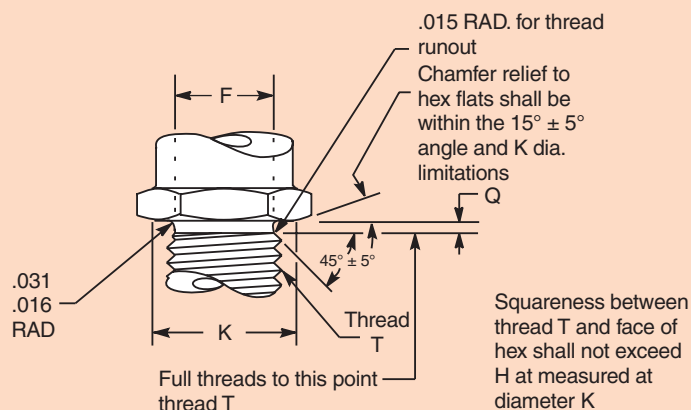
Parker O-ring Size No.*	Actual O-Ring Dimensions W	ID	Equiv. Tube Dash No.	Tube OD Min.	Thread T Per Mil-S-8879	A Dia. +.015 -.000	B Full Thd. Depth	C Dia.	D Dia. +.005 -.000	E +.015 -.000	G Dia. Min.	J Min.	N
3-901	.056 ± .003	.185 ± .005	1	—	.2500-28UNJF-3B	0.359	0.330	0.062	0.264	0.063	0.478	0.402	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	
3-903	.064 ± .003	.301 ± .005	3	.188	.3750-24UNJF-3B	0.500	0.538	0.125	0.390	0.075	0.665	0.583	0.003
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	0.075	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	0.107	1.102	0.850	
3-910	.097 ± .003	.755 ± .009	10	.625	.8750-14UNJF-3B	1.000	0.802	0.484	0.896	0.107	1.165	0.960	0.005
3-911	.116 ± .004	.863 ± .009	11	.688	1.0000-12UNJF-3B	1.156		0.547	1.023	0.125	1.352		
3-912	.116 ± .004	.924 ± .009	12	.750	1.0625-12UNJ-3B	1.234		0.609	1.086	0.125	1.415	1.064	
3-914	.116 ± .004	1.047 ± .010	14	.875	1.1875-12UNJ-3B	1.362		0.734	1.211	0.125	1.540		
3-916	.116 ± .004	1.171 ± .010	16	1.000	1.3125-12UNJ-3B	1.487	0.877	0.844	1.336	0.125	1.665		
3-918	.116 ± .004	1.355 ± .012	18	1.125	1.5000-12UNJF-3B	1.675		0.953	1.524	0.125	1.790	1.116	0.008
3-920	.118 ± .004	1.475 ± .014	20	1.250	1.6250-12UNJ-3B	1.800		1.078	1.648	0.125	1.978		
3-924	.118 ± .004	1.720 ± .014	24	1.500	1.8750-12UNJ-3B	2.050		1.312	1.898	0.125	2.228	1.127	
3-928	.118 ± .004	2.090 ± .018	28	1.750	2.2500-12UNJ-3B	2.425		1.547	2.273	0.125	2.602	1.243	0.010
3-932	.118 ± .004	2.337 ± .018	32	2.000	2.5000-12UNJ-3B	2.675	0.907	1.781	2.524	0.125	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)

Tube Fitting Boss Seals

Use fitting end per AS4395

**Fitting End AS4395 Used with J1926/1 and AS5202 Bosses (Supersedes MS 33656)**

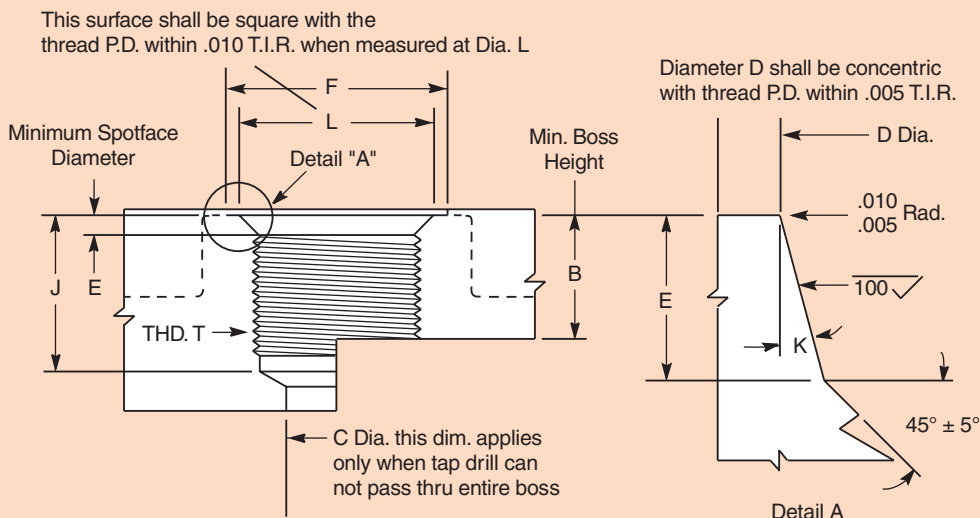
(Only the dimensions that define the O-ring cavity are shown below.)

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	.563	.250		.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	.005	.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	1.125	.773		1.111	.107
3-912	3/4	1 1/16-12	1.375	.945		1.361	
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	.008	1.599	.125
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.)

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	D	E	F	J	K	L
	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	.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