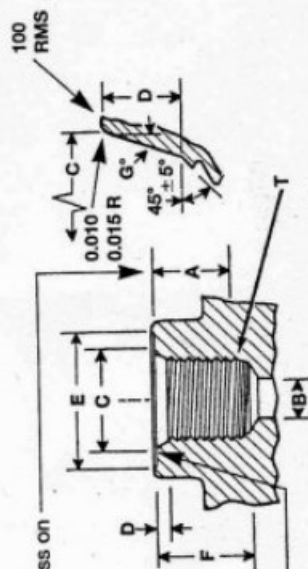


4/3/02

MDS

SAE O-RING PORT DIMENSIONS (O-RING BOSS)

SAE STANDARD J514 (APR80)



Spotface depth limited for wrench access on fittings

0.062 for -2 through -6
 0.094 for -8 through -14
 0.125 for -16 through -32

This surface must be square to thread pitch diameter within 0.010 FIR

x Diameter "C" to be concentric with thread pitch diameter within

0.005 FIM

+ Requires bottoming tap

Δ Similar to AN-924 locknut

□ Based on steel fitting and internal thread

• Also minimum boss thickness

+ Only applies when tap drill cannot pass through entire boss

SIZE		PORT DIMENSIONS ALL DIMENSIONS ARE IN INCHES EXCEPT AS NOTED										FITTING DIMENSIONS				
		STRAIGHT THREAD "T" SAE J475 (ISO R725)		A*	B*	C*	D	E	F	G	SAE HEX BOSS			Δ AND HEX BOSS		FITTING TORQUE LB(F)-IN
NOMINAL TUBE OD	TUBE DASH NO.	"T" THREAD SIZE	THREAD PITCH DIAM.	THREAD MINOR DIAM.	MIN. DIAM	MIN. DIAM.	MIN. DIAM.	MIN. DIAM.	MIN.	±1°	ACROSS FLATS	ACROSS CORNERS	ACROSS FLATS	ACROSS CORNERS	ARP 568 O-RING	
1/8	-2	5/16-24	0.2854	0.267	0.390	0.358	0.074	0.672	0.468	12°	0.44	0.51	0.56	0.64	3-902	37 ± 5
3/16	-3	3/8-24	0.3479	0.330	0.390	0.421	0.074	0.750	0.468	12°	0.50	0.58	0.63	0.72	3-903	68 ± 5
1/4	-4	7/16-20	0.4050	0.383	0.454	0.487	0.093	0.828	0.547	12°	0.56	0.64	0.69	0.80	3-904	107 ± 10
5/16	-5	1/2-20	0.4765	0.446	0.454	0.550	0.093	0.906	0.547	12°	0.63	0.72	0.75	0.86	3-905	145 ± 20
3/8	-6	9/16-18	0.5264	0.502	0.500	0.616	0.097	0.969	0.509	12°	0.69	0.80	0.81	0.94	3-906	225 ± 25
1/2	-8	3/4-16	0.7094	0.682	0.562	0.811	0.100	1.188	0.688	15°	0.88	1.02	1.00	1.16	3-908	420 ± 50
5/8	-10	7/8-14	0.8286	0.798	0.656	0.942	0.100	1.314	0.781	15°	1.00	1.16	1.13	1.30	3-910	660 ± 50
3/4	-12	1-1/16-12	1.0084	0.972	0.750	1.148	0.130	1.625	0.906	15°	1.25	1.45	1.38	1.59	3-912	900 ± 50
7/8	-14	1-1/8-12	1.1334	1.097	0.750	1.273	0.130	1.765	0.906	15°	1.38	1.59	1.50	1.73	3-914	1,000 ± 50
1	-16	1-5/16-12	1.2584	1.222	0.750	1.398	0.130	1.910	0.906	15°	1.50	1.73	1.63	1.88	3-916	1,200 ± 80
1 1/4	-20	1-7/8-12	1.5709	1.535	0.750	1.713	0.132	2.270	0.906	15°	1.88	2.17	1.94	2.24	3-920	1,600 ± 80
1 1/2	-24	1-7/8-12	1.8209	1.785	0.750	1.962	0.132	2.560	0.906	15°	2.13	2.45	2.19	2.53	3-924	2,000 ± 80
2	-32	2-1/2-12	2.4459	2.410	0.750	2.587	0.132	3.480	0.906	15°	2.75	3.17	2.81	3.24	3-932	2,800 ± 120
		UN-2B	2.4540	2.427												