

**SAE STANDARD J518 (DEC 87)
FLANGE DIMENSIONAL DATA**

NOMINAL FLANGE SIZE	DASH SIZE	A	B	C	D	E	F	G DIA.	H DIA.	J DIA.	K	L	M	N NPTF THREAD	O DIA.	P SPOTFACE DIA.	R THREAD UNC-2B	SOC HD CAP SCREW (THREADED FLANGE) SIZE & LENGTH (IN.)	HEX OR SOC HD CAP SCREW (SOCKET WELD) SIZE & LENGTH (IN)	O" RING ARP-568 UNIFORM DASH #	BOLT* TORQUE LB(F)-IN
Δ5000 PSIG RECOMMENDED WORKING PRESSURE (SAE CODE 61)																					
0.5	-8	1.81	2.12	0.688	1.5	0.75	0.19	0.855	0.5	1.005/1.000	1.25	0.91	0.87	0.5	3.44	0.469	-7.6875	5/16-18X11/2	5/16-18X11/2	-210 1X3/4X1/8	-50
0.75	0.12	2.06	2.56	0.875	1.875	0.75	0.19	1.063	0.75	1.255/1.250	1.25	0.84	0.87	0.75	0.406	0.594	-15.625	3/8-16X11/2	3/8-16X11/2	-214 11/4X1X1/8	-100
1	-16	2.31	2.75	1.031	2.062	0.87	0.25	1.328	1	1.565/1.560	1.38	0.97	1.12	1	0.406	0.594	-15.625	3/8-16X13/4	3/8-16X13/4	-219 19/16X15/16X1/8	-100
Δ4000 PSIG RECOMMENDED WORKING PRESSURE (SAE CODE 61)																					
1.25	-20	2.88	3.12	1.188	2.312	0.94	0.25	1.672	1.25	1.755/1.750	1.5	1.03	1.12	1.25	0.469	0.656	-13.5625	7/16-14X13/4	7/16-14X13/4	-222 13/4X11/2X1/8	-125
Δ3000 PSIG RECOMMENDED WORKING PRESSURE (SAE CODE 61)																					
1.5	-24	3.25	3.69	1.406	2.75	1.19	0.44	1.923	1.5	2.215/2.115	1.62	1.09	1.12	1.5	0.531	0.781	½-13	½-13X2	½-13X23/4	-225 21/8X17/8X1/8	-150
2	-32	3.81	4	1.688	3.062	1.37	0.5	2.406	2	2.500/2.490	1.62	1.09	1.12	2	0.531	0.781	½-13	½-13X2	1/2-13X21/2	-228 21/2X21/4X1/8	-150
Δ2500 PSIG RECOMMENDED WORKING PRESSURE (SAE CODE 61)																					
2.5	-40	4.28	4.5	2	3.5	1.75	0.75	2.906	2.5	3.005/2.995	2	1.47	1.56	2.5	0.531	0.781	½-13	½-13X21/2	½-13X23/4	-232 3X23/4X1/8	950-1100
Δ2000 PSIG RECOMMENDED WORKING PRESSURE (SAE CODE 61)																					
3	-48	5.16	5.31	2.438	4.188	2.12	0.87	3.547	3	3.625/3.615	2.25	1.59	1.72	3	0.656	0.937	-10.375	5/8-11X23/4	5/8-11X3	-237 35/8X35/8X1/8	-150
Δ500 PSIG RECOMMENDED WORKING PRESSURE (SAE CODE 61)																					
3.5	-56	5.5	6	2.75	4.75	1.44	0.25	4.047	3.5	4.115/4.095					0.656		-10.375		5/8-11X21/2	-241 41/8X37/8X1/8	-200
4	-64	6	6.38	3.062	5.125	1.5	0.25	4.578	4	4.615/4.959					0.656		-10.375		5/8-11X23/4	-245 45/8X43/8X1/8	-200
5	-80	7.12	7.25	3.625	6	1.75	0.37	5.797	5	5.615/5.595					0.656		-10.375		5/8-11X3	-253 55/8X53/8X1/8	-200
Δ6000 PSIG RECOMMENDED WORKING PRESSURE (SAE CODE 62)																					
0.5	-8	1.88	2.22	0.718	1.594	0.87	0.25	0.855	0.5	1.005/1.000					0.344		-17.6875		5/16-18X11/2	-210 1X3/4X1/8	-50
0.75	-12	2.38	2.81	0.937	2	0.87	0.25	1.063	0.75	1.255/1.250					0.406		-15.625		3/8-16X11/2	-214 11/4X1X1/8	-100
1	-16	2.75	3.19	1.093	2.25	1	0.37	1.328	1	1.565/1.560					0.469		-13.5625		7/16-14X13/4	-219 19/16X15/16X1/8	-100
1.25	-20	3.06	3.75	1.25	2.625	1.25	0.56	1.672	1.25	1.755/1.750					3531		½-13	½-13X21/4	-222 13/4X11/2X1/8	-150	
1.5	-24	3.75	4.44	1.437	3.125	1.5	0.75	1.923	1.5	2.215/2.115					0.656		-10.375		5/8-11X21/4	-225 21/8X17/8X1/8	-200
2	-32	4.5	5.25	1.75	3.812	1.75	0.87	2.406	2	2.500/2.490					0.781		-9.25		3/4-10X3	-228 21/2X21/4X1/8	-200

*Torque value based on dry assembly using SAE grade 5 bolts or better or socket head cap screws of grade 5 or better with insertion length into steel surfaces as provided by the specified bolt lengths.

Bolt torque for split flanges that have clearance between split flange and mounting surface may need special evaluation to prevent split flange distortion.

CAUTION: The SAE specification permits operation of the port up to the pressures noted. Certain manufacturers of flanges that match these ports may rate their flanges for a lower operation pressure. Consult the manufacturer for specific operational pressures allowed. Flange sizes are typical, may vary by manufacturer.