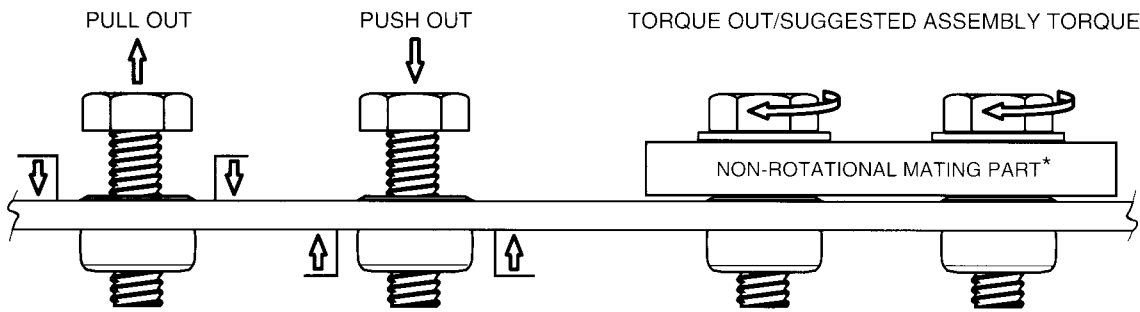


A-T SERIES INSERT TEST DATA

The test data on this page is intended to provide the designer with approximate strength values in various materials and thicknesses. The figures shown are averages of multiple tests. AVK recommends that this data be used only as a guide since various application factors may affect AVK product performance. We recommend testing your application when an exact strength figure is required or the load to be applied comes close to the published data.

Unified (Inch) thread size data is provided in pounds (LBS.) and Kilo-Newtons (KN) for force and inch pounds (INCH LBS.) and Newton meters (Nm) for torque.



THREAD SIZE	PULL OUT IN POUNDS AND KILO-NEWTONS												PUSH OUT IN STEEL	TORQUE OUT IN STEEL	SUGGESTED ASSEM. TORQUE INCH LBS.-Nm PLATED SCREW GRADE 8 GRADE 12.9
	IN STEEL SHEET						IN ALUMINUM SHEET								
	.062 1,57	.090 2,28	.125 3,17	.187 4,74	.250 6,35	.312 7,92	.062 1,57	.090 2,28	.125 3,17	.187 4,74	.250 6,35	.312 7,92	.312 7,92	.125 3,17	
4-40 UNC	359	383	406	446	385	369	357	423	454	418	393	319	319	21	9
6-32 UNC	421	466	483	527	461	408	443	489	531	492	479	433	336	35	17
8-32 UNC	456	676	721	858	474	430	648	713	723	678	515	461	379	58	31
10-24 UNC	619	849	1113	1189	668	631	713	955	998	1231	743	618	511	111	45
10-32 UNF	619	849	1113	1189	668	631	713	955	998	1231	743	618	511	138	51
1/4-20 UNC	738	1003	1762	1959	896	787	798	1530	1791	1815	941	798	689	150	108
5/16-18 UNC	823	1108	1999	2411	2696	2527	1148	2051	2181	2664	2675	1555	693	265	216
3/8-16 UNC	902	1251	2363	3258	3534	3588	1893	2844	2922	3309	3248	3288	731	434	420
1/2-13 UNC	548	938	2068	3827	3974	4800	665	1250	1885	2078	1587	1873	1904	1476	960
M3 x 0,5 ISO	1.5	1.7	1.8	1.9	1.7	1.6	1.5	1.8	2.0	1.8	1.7	1.4	1.4	2.3	1.8
M4 x 0,7 ISO	1.8	3.0	3.2	3.8	2.1	1.9	2.8	3.1	3.2	3.0	2.2	2.0	1.6	6.5	4.3
M5 x 0,8 ISO	2.7	3.7	4.9	5.2	2.9	2.8	3.1	4.2	4.4	5.4	3.3	2.7	2.2	15.5	8.4
M6 x 1,0 ISO	3.2	4.4	7.8	8.7	3.9	3.5	3.5	6.8	7.9	8.0	4.1	3.5	3.0	32.5	14.6
M8 x 1,25 ISO	3.6	4.9	8.8	10.7	11.9	11.2	5.1	9.1	9.7	11.8	11.8	6.9	3.0	53.9	35
M10 x 1,5 ISO	5.5	5.5	10.5	14.4	15.7	15.9	8.4	12.6	12.9	14.7	14.4	14.6	3.2	85.4	70
M12 x 1,75 ISO	2.4	4.1	9.1	17.0	17.6	21.3	2.9	5.5	8.3	9.2	7.0	8.3	8.4	162.1	121

- All data was determined using Steel/Cadmium plated product per AVK catalog specifications.
- Torque-out tests were performed using Unified (INCH) Grade 8 and Metric Grade 12.9 steel plated screws.
- Suggested assembly torque data is per screw manufacturer's specifications for steel plated screws.
- The Non-Rotational mating part should contact the head of the AVK product to obtain comparative data.

