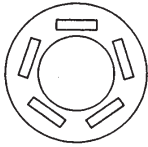


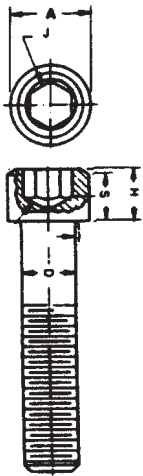


### Direct Tension Indicator Washer (For A490 Bolt)



Basic Diameter	Outside Diameter		Inside Diameter		Thickness		Number of Protrusions equally spaced
	Min.	Max.	Min.	Max.	w/out protrusion min.	w/protrusion Max.	
1/2	1-5/16	1-3/8	17/32	9/16	0.104	0.180	5
5/8	1-9/16	1-5/8	21/32	11/16	0.126	0.220	5
3/4	1-11/16	1-3/4	25/32	13/16	0.142	0.240	6
7/8	1-15/16	2	29/32	15/16	0.158	0.260	6
1	2-3/16	2-1/4	1-1/32	1-1/16	0.158	0.270	7
1-1/8	2-7/16	2-1/2	1-11/64	1-15/64	0.158	0.280	7
1-1/4	2-11/16	2-3/4	1-19/64	1-23/64	0.158	0.280	8
1-3/8	2-15/16	3	1-29/64	1-33/64	0.158	0.280	8
1-1/2	3-3/16	3-1/4	1-37/64	1-41/64	0.158	0.280	9

### 1960 Series Socket Head Cap Screws Suggested Tightening Torques & Dimensions



Nominal Size Or Basic Screw Diameter	D		A		H		S	J		Tightening Torque		
	Body Diameter		Head Diameter		Head Height		Head Side Height	Hexagon Socket Size		UNRC	UNRF	
	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Nom.				
0	0.0600	0.0600	0.0568	0.096	0.091	0.060	0.057	0.054		0.050	-	2.6 (in.-lb.)
1	0.0730	0.0730	0.0695	0.118	0.112	0.073	0.070	0.066	1/16	0.062	4.5	4.8
2	0.0860	0.0860	0.0822	0.140	0.134	0.086	0.083	0.077	5/64	0.078	7.5	8
3	0.0990	0.0990	0.0949	0.161	0.154	0.099	0.095	0.089	5/64	0.078	11	12
4	0.1120	0.1120	0.1075	0.183	0.176	0.112	0.108	0.101	3/32	0.094	16	18
5	0.1250	0.1250	0.1202	0.205	0.198	0.125	0.121	0.112	3/32	0.094	24	24
6	0.1380	0.1380	0.1329	0.226	0.218	0.138	0.134	0.124	7/64	0.109	30	34
8	0.1640	0.1640	0.1585	0.270	0.262	0.164	0.159	0.148	9/64	0.141	55	58
10	0.1900	0.1900	0.1840	0.312	0.303	0.190	0.185	0.171	5/32	0.156	79	90
1/4	0.2500	0.2500	0.2435	0.375	0.365	0.250	0.244	0.225	3/16	0.188	17	19 (ft.-lb.)
5/16	0.3125	0.3125	0.3053	0.469	0.457	0.312	0.306	0.281	1/4	0.250	35	38
3/8	0.3750	0.3750	0.3678	0.562	0.550	0.375	0.368	0.337	5/16	0.312	62	70
7/16	0.4375	0.4375	0.4294	0.656	0.642	0.438	0.430	0.394	3/8	0.375	100	109
1/2	0.5000	0.5000	0.4919	0.750	0.735	0.500	0.492	0.450	3/8	0.375	150	172
5/8	0.6250	0.6250	0.6163	0.938	0.921	0.625	0.616	0.562	1/2	0.500	283	317
3/4	0.7500	0.7500	0.7406	1.125	1.107	0.750	0.740	0.675	5/8	0.625	500	562
7/8	0.8750	0.8750	0.8647	1.312	1.293	0.875	0.864	0.787	3/4	0.750	688	767
1	1.0000	1.0000	0.9886	1.500	1.479	1.000	0.988	0.900	3/4	0.750	1040	1080
1-1/4	1.2500	1.2500	1.2336	1.875	1.852	1.250	1.236	1.125	7/8	0.875	2080	2310
1-1/2	1.5000	1.5000	1.4818	2.250	2.224	1.500	1.485	1.350	1	1.000	3625	4080

#### Material

- (A) Alloy Steel conforming in all respects to ASTM A 574. Heat treated to Rockwell "C" 39-45 for .500 in. and smaller, and 37-45 for .625 in. and larger.
- (B) Corrosion-Resistant shall conform in all respects to ASTM F837.

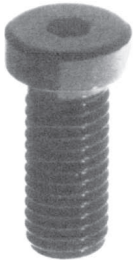
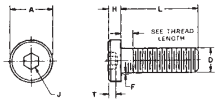
Tensile Strength { 0 thru 1/2 .....180,000 psi min  
5/8-above .....170,000 psi min

### Suggested Tightening Torques For Other Alloy Socket Screw Products (in.-lbs.)

Nominal Size	Basic Screw Size	Button Head Flat Head Hex Key Size	Button Head Max. Tightening Torque	Flat Head	Low Head		Shoulder Screws	
				Max. Tightening Torque	Hex Key Size	Max. Tightening Torque	Hex Key Size	Max. Tightening Torque
4	.1120	1/16	7.5	9.5	.050	5.0	-	-
5	.1250	5/64	12.5	19.0	.062	9.5	-	-
6	.1380	5/64	12.5	19.0	.062	9.5	-	-
8	.1640	3/32	23.0	30.0	5/64	19.4	-	-
10	.1900	1/8	45.0	65.0	3/32	33.5	-	-
1/4	.2500	5/32	105.0	140.0	1/8	77.9	1/8	50
5/16	.3125	3/16	190.0	245.0	5/32	156.0	5/32	125
3/8	.3750	7/32	300.0	390.0	3/16	273.0	3/16	265
7/16	.4375	1/4	-	580.0	7/32	428.0	-	-
1/2	.5000	5/16	1125.0	1170.0	1/4	615.0	1/4	470
5/8	.6250	3/8	1875.0	2000.0	5/16	1315.0	5/16	1.150
3/4	.7500	1/2	-	2300.0	-	-	3/8	2.000
1	-	-	-	-	-	-	1/2	4.000

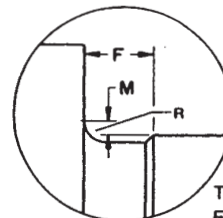
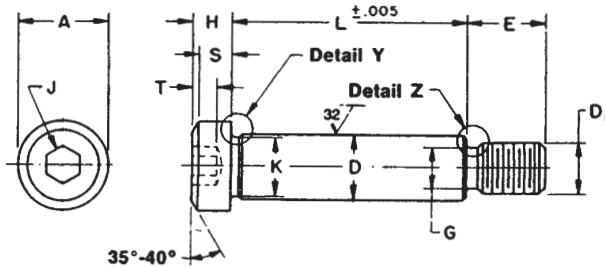


### Socket Low Head Cap Screws



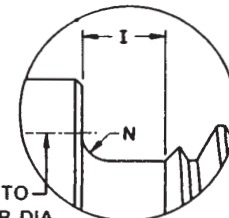
Nominal Size Or Basic Screw Diameter	A		H		J		T		F	
	Head Diameter		Head Height		Hexagon Socket Size		Key Engagement		Fillet Extension Size	
	Max.	Min.	Max.	Min.	Nom.		Min.	Max.	Min.	
4	0.1120	0.183	0.178	0.056	0.053	-	0.0500	0.038	0.009	0.005
5	0.1250	0.205	0.200	0.062	0.059	1/16	0.0625	0.044	0.010	0.006
6	0.1380	0.226	0.221	0.069	0.066	1/16	0.0625	0.050	0.010	0.006
8	0.1640	0.270	0.265	0.082	0.079	5/64	0.0781	0.060	0.012	0.007
10	0.1900	0.312	0.307	0.095	0.092	3/32	0.0938	0.072	0.014	0.009
1/4	0.2500	0.375	0.369	0.125	0.121	1/8	0.1250	0.094	0.014	0.009
5/16	0.3125	0.437	0.431	0.156	0.152	5/32	0.1562	0.120	0.017	0.012
3/8	0.3750	0.562	0.556	0.187	0.182	3/16	0.1875	0.145	0.020	0.015
7/16	0.4375	0.625	0.618	0.218	0.213	7/32	0.2188	0.166	0.023	0.018
1/2	0.5000	0.750	0.743	0.250	0.244	1/4	0.2500	0.184	0.026	0.020
5/8	0.6250	0.875	0.867	0.312	0.306	5/16	0.3125	0.250	0.032	0.024

### Socket Head Shoulder Screws



ENLARGED  
DETAIL Y

THIS DIA. NOT TO EXCEED MAJOR DIA. OF THREAD



ENLARGED  
DETAIL Z

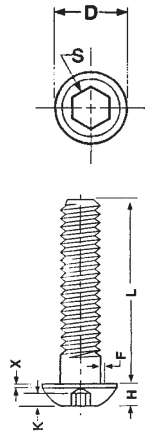
Nominal Size Or Basic Shoulder Diameter	D (1)		A		H		S	J		T	M	R	
	Shoulder Diameter		Head Diameter		Head Height		Head Side Height	Hexagon Socket Size		Key Engagement	Head Fillet Extension Above D	Head Fillet Radius	
	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Nom.		Min.	Max.	Min.	
1/4	0.250	0.2480	0.2460	0.375	0.375	0.188	0.177	0.157	1/8	0.125	0.094	0.014	0.009
5/16	0.312	0.3105	0.3085	0.438	0.419	0.219	0.209	0.183	5/32	0.156	0.117	0.017	0.012
3/8	0.375	0.3730	0.3710	0.562	0.543	0.250	0.240	0.209	3/16	0.188	0.141	0.020	0.015
1/2	0.500	0.4980	0.4960	0.750	0.729	0.312	0.302	0.262	1/4	0.250	0.188	0.026	0.020
5/8	0.625	0.6230	0.6210	0.875	0.853	0.375	0.365	0.315	5/16	0.312	0.234	0.032	0.024
3/4	0.750	0.7480	0.7460	1.000	0.977	0.500	0.490	0.421	3/8	0.375	0.281	0.039	0.030
1	1.000	0.9980	0.9960	1.312	1.287	0.625	0.610	0.527	1/2	0.500	0.375	0.050	0.040

### Socket Head Shoulder Screws (Cont.)

Nominal Size Or Basic Shoulder Diameter		K	F	D		Threads Per Inch	G		I	N		E(3)
		Shoulder Neck Diameter	Shoulder Neck Width	Nominal Thread Size Or Basic Thread Diameter			Thread Neck Diameter		Thread Neck Width	Thread Neck Fillet		Thread Length Basic
				Min.	Max.		Max.	Min.		Max.	Min.	
1/4	0.250	0.227	0.093	10	0.1900	24	0.142	0.133	0.083	0.023	0.017	0.375
5/16	0.312	0.289	0.093	1/4	0.2500	20	0.193	0.182	0.100	0.028	0.022	0.438
3/8	0.375	0.352	0.093	5/16	0.3125	18	0.249	0.237	0.111	0.031	0.025	0.500
1/2	0.500	0.477	0.093	3/8	0.3750	16	0.304	0.291	0.125	0.035	0.029	0.625
5/8	0.625	0.602	0.093	1/2	0.5000	13	0.414	0.397	0.154	0.042	0.036	0.750
3/4	0.750	0.727	0.093	5/8	0.6250	11	0.521	0.502	0.182	0.051	0.045	0.875
1	1.000	0.977	0.125	3/4	0.7500	10	0.638	0.616	0.200	0.055	0.049	1.000

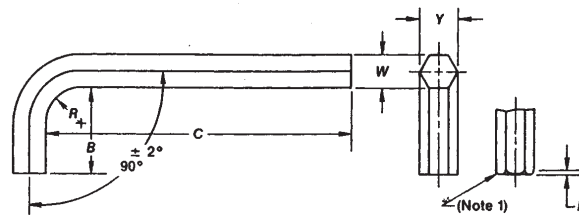


### Button Head Socket Cap Screws



Nominal Size	D		H		X	S		K	F		L
	Head Diameter		Head Height		Head Side Height	Hexagon Socket Size		Key Engagement	Fillet Extension		Max. Standard Length
	Max.	Min.	Max.	Min.	Ref.	Nom.		Min.	Max.	Min.	Nom.
4	0.213	0.201	0.059	0.051	0.015	1/16	0.062	0.035	0.010	0.005	0.50
5	0.238	0.226	0.066	0.058	0.015	5/64	0.078	0.044	0.010	0.005	0.50
6	0.262	0.250	0.073	0.063	0.015	5/64	0.078	0.044	0.010	0.005	0.63
8	0.312	0.298	0.087	0.077	0.015	3/32	0.094	0.052	0.015	0.010	0.75
10	0.361	0.347	0.101	0.091	0.020	1/8	0.125	0.070	0.015	0.010	1.00
1/4	0.437	0.419	0.132	0.122	0.031	5/32	0.156	0.087	0.020	0.015	1.00
5/16	0.547	0.527	0.166	0.152	0.031	3/16	0.188	0.105	0.020	0.015	1.00
3/8	0.656	0.636	0.199	0.185	0.031	7/32	0.219	0.122	0.020	0.015	1.25
1/2	0.875	0.851	0.265	0.245	0.046	5/16	0.312	0.175	0.030	0.020	2.00
5/8	1.000	0.970	0.331	0.311	0.062	3/8	0.375	0.210	0.030	0.020	2.00

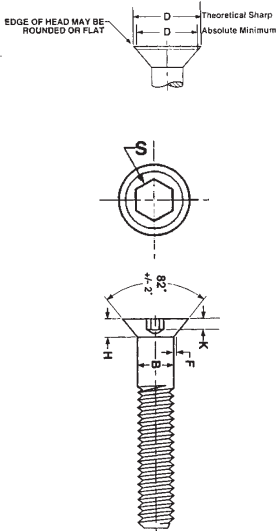
### Hex Keys



Basic Key and Socket Size	W		Y		B		C				R	K
	Hexagon Width Across Flats		Hexagon Width Across Corners		Length of Short Arm		Length of Long Arm				Radius of Bend	Chamfer
	Max.	Min.	Max.	Min.	Max.	Min.	Short Series		Long Series			
0.028	0.0280	0.0275	0.0314	0.0300	0.312	0.125	1.312	1.125	2.688	2.500	0.062	0.003
0.035	0.0350	0.0345	0.0393	0.0378	0.438	0.250	1.312	1.125	2.766	2.578	0.062	0.004
0.050	0.0500	0.0490	0.0560	0.0540	0.625	0.438	1.750	1.562	2.938	2.750	0.062	0.006
1/16	0.0625	0.0615	0.0701	0.0680	0.656	0.469	1.844	1.656	3.094	2.906	0.062	0.008
5/64	0.0781	0.0771	0.0880	0.0859	0.703	0.516	1.969	1.781	3.281	3.094	0.078	0.008
3/32	0.0937	0.0927	0.1058	0.1035	0.750	0.562	2.094	1.906	3.469	3.281	0.094	0.009
7/64	0.1094	0.1079	0.1238	0.1210	0.797	0.609	2.219	2.031	3.656	3.469	0.109	0.014
1/8	0.1250	0.1235	0.1418	0.1390	0.844	0.656	2.344	2.156	3.844	3.656	0.125	0.015
9/64	0.1406	0.1391	0.1593	0.1566	0.891	0.703	2.469	2.281	4.031	3.844	0.141	0.016
5/32	0.1562	0.1547	0.1774	0.1745	0.938	0.750	2.594	2.406	4.219	4.031	0.156	0.016
3/16	0.1875	0.1860	0.2135	0.2105	1.031	0.844	2.844	2.656	4.594	4.406	0.188	0.022
7/32	0.2187	0.2172	0.2490	0.2460	1.125	0.938	3.094	2.906	4.969	4.781	0.219	0.024
1/4	0.2500	0.2485	0.2845	0.2815	1.219	1.031	3.344	3.156	5.344	5.156	0.250	0.030
5/16	0.3125	0.3110	0.3570	0.3531	1.344	1.156	3.844	3.656	6.094	5.906	0.312	0.032
3/8	0.3750	0.3735	0.4285	0.4238	1.469	1.281	4.344	4.156	6.844	6.656	0.375	0.044
7/16	0.4375	0.4355	0.5005	0.4944	1.594	1.406	4.844	4.656	7.594	7.406	0.438	0.047
1/2	0.5000	0.4975	0.5715	0.5650	1.719	1.531	5.344	5.156	8.344	8.156	0.500	0.050
9/16	0.5625	0.5600	0.6420	0.6356	1.844	1.656	5.844	5.656	9.094	8.906	0.562	0.053
5/8	0.6250	0.6225	0.7146	0.7080	1.969	1.781	6.344	6.156	9.844	9.656	0.625	0.055
3/4	0.7500	0.7470	0.8580	0.8512	2.219	2.031	7.344	7.156	11.344	11.156	0.750	0.070
7/8	0.8750	0.8720	1.0020	0.9931	2.469	2.281	8.344	8.156	12.844	12.656	0.875	0.076
1	1.0000	0.9970	1.1470	1.1350	2.719	2.531	9.344	9.156	14.344	14.156	1.000	0.081
1-1/4	1.2500	1.2430	-	-	3.250	2.750	11.500	11.000	-	-	1.250	0.092
1-1/2	1.5000	1.4930	-	-	3.750	3.250	13.500	13.000	-	-	1.500	0.104
1-3/4	1.7500	1.7430	-	-	4.250	3.750	15.500	15.000	-	-	1.750	0.115
2	2.0000	1.9930	-	-	4.750	4.250	17.500	17.000	-	-	2.000	0.126
2-1/4	2.2500	2.2430	-	-	5.250	4.750	19.500	19.000	-	-	2.250	0.137
2-3/4	2.7500	2.7420	-	-	6.250	5.750	23.500	23.000	-	-	2.750	0.159
3	3.0000	2.9920	-	-	6.750	6.250	25.500	25.000	-	-	3.000	0.171

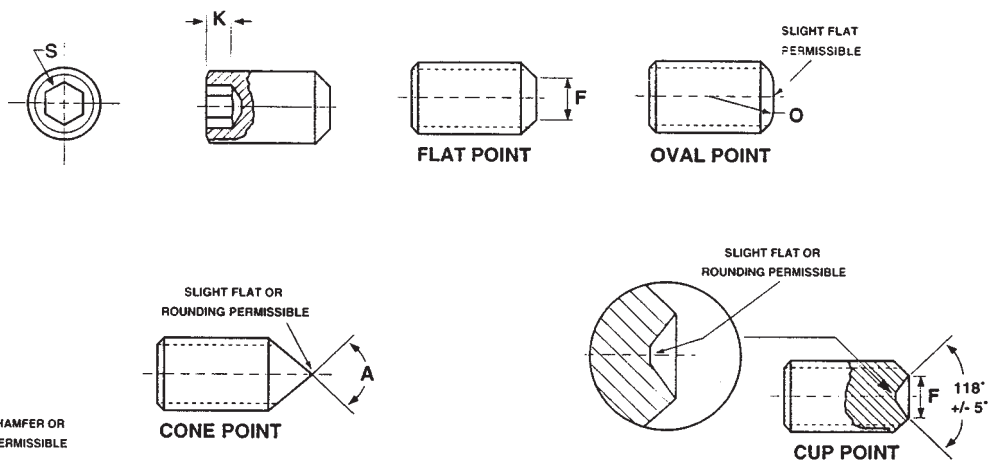


### Flat Head Socket Cap Screws



Nominal Size	B		D		H		S	K	F
	Body Diameter		Head Diameter		Head Height				
	Max.	Min.	Theoretical Sharp	Abs	Reference	Flushness Tolerance	Hexagon Socket Size Nom.	Key Engagement Min.	Fillet Extension Above D Max.
			Max.	Min.					
4	0.1120	0.1075	0.255	0.218	0.083	0.011	1/16	0.055	0.012
5	0.1250	0.1202	0.281	0.240	0.090	0.012	5/64	0.061	0.014
6	0.1380	0.1329	0.307	0.263	0.097	0.013	5/64	0.066	0.015
8	0.1640	0.1585	0.359	0.311	0.112	0.014	3/32	0.076	0.015
10	0.1900	0.1840	0.411	0.359	0.127	0.015	1/8	0.087	0.015
1/4	0.2500	0.2435	0.531	0.480	0.161	0.016	5/32	0.111	0.015
5/16	0.3125	0.3053	0.656	0.600	0.198	0.017	3/16	0.135	0.015
3/8	0.3750	0.3678	0.781	0.720	0.234	0.018	7/32	0.159	0.015
7/16	0.4375	0.4294	0.844	0.781	0.234	0.018	1/4	0.159	0.015
1/2	0.5000	0.4919	0.938	0.872	0.251	0.018	5/16	0.172	0.015
5/8	0.6250	0.6163	1.188	1.112	0.324	0.022	3/8	0.220	0.015
3/4	0.7500	0.7406	1.438	1.355	0.396	0.024	1/2	0.220	0.015

### Socket Set Screws



Nominal Size	S	K	F		O	D		H		Shortest Length To Which K Applies			A Cone Pt. Angle 90° For These Lengths or Longer
	Hexagon Socket Size	Min Key Engagement	Cup & Flat Point Dia.		Oval Point Radius	Half Dog Point		Cup & Flat Points	90° Cone & Oval Pts.	Half Dog Point			
			Max.	Min.		Basic	Length						
							Max.				Min.	Max.	
4	0.050	0.070	0.061	0.051	0.084	0.075	0.070	0.030	0.026	0.19	0.19	0.19	0.19
5	1/16	0.080	0.067	0.057	0.094	0.083	0.078	0.033	0.027	0.19	0.19	0.19	0.19
6	1/16	0.080	0.074	0.064	0.104	0.092	0.087	0.038	0.032	0.19	0.25	0.19	0.19
8	5/64	0.090	0.087	0.076	0.123	0.109	0.103	0.043	0.037	0.19	0.25	0.25	0.25
10	3/32	0.100	0.102	0.088	0.142	0.127	0.120	0.049	0.041	0.19	0.25	0.25	0.25
1/4	1/8	0.125	0.132	0.118	0.188	0.156	0.149	0.067	0.059	0.25	0.31	0.31	0.31
5/16	5/32	0.156	0.172	0.156	0.234	0.203	0.195	0.082	0.074	0.31	0.44	0.38	0.38
3/8	3/16	0.188	0.212	0.194	0.281	0.250	0.241	0.099	0.089	0.38	0.44	0.44	0.44
7/16	7/32	0.219	0.252	0.232	0.328	0.297	0.287	0.114	0.104	0.44	0.63	0.50	0.50
1/2	1/4	0.250	0.291	0.270	0.375	0.344	0.334	0.130	0.120	0.50	0.63	0.63	0.57
5/8	5/16	0.312	0.371	0.347	0.469	0.469	0.456	0.164	0.148	0.63	0.88	0.88	0.75
3/4	3/8	0.375	0.450	0.425	0.562	0.562	0.549	0.196	0.180	0.75	1.00	1.00	0.88
7/8	1/2	0.500	0.530	0.502	0.656	0.656	0.642	0.227	0.211	0.88	1.00	1.00	1.00
1	9/16	0.562	0.609	0.579	0.750	0.750	0.734	0.260	0.240	1.00	1.25	1.25	1.13

Evansville, IN  
 Jasper, IN  
 Vincennes, IN

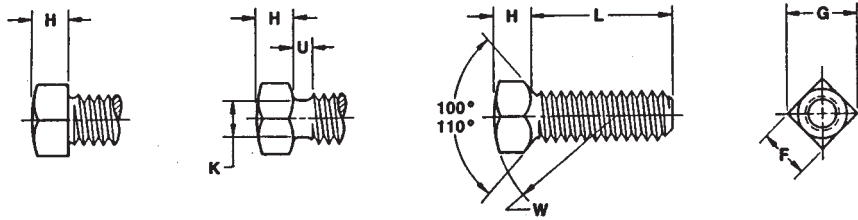
812-477-0077  
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 812-882-4090



Henderson, KY  
 Owensboro, KY  
 Mt. Vernon, IL

270-830-0077  
 270-684-0877  
 618-244-7156

### Square Head Set Screws



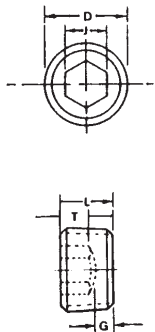
Basic Screw Diameter	F		G		H		K		S	U	W
	Width Across Flats		Width Across Corners		Head Height		Neck Relief Diameter		Neck Relief Fillet Radius	Neck Relief Width	Head Radius
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
#10	0.188	0.180	0.265	0.247	0.148	0.134	0.145	0.140	0.027	0.083	0.48
1/4	0.250	0.241	0.354	0.331	0.196	0.178	0.185	0.170	0.032	0.100	0.62
5/16	0.312	0.302	0.442	0.415	0.245	0.224	0.240	0.225	0.036	0.111	0.78
3/8	0.375	0.362	0.530	0.497	0.293	0.270	0.294	0.279	0.041	0.125	0.94
7/16	0.438	0.423	0.619	0.581	0.341	0.315	0.345	0.330	0.046	0.143	1.09
1/2	0.500	0.484	0.707	0.665	0.389	0.361	0.400	0.385	0.050	0.154	1.25
9/16	0.562	0.545	0.795	0.748	0.437	0.407	0.454	0.439	0.054	0.167	1.41
5/8	0.625	0.606	0.884	0.833	0.485	0.452	0.507	0.492	0.059	0.182	1.56
3/4	0.750	0.729	1.060	1.001	0.582	0.544	0.620	0.605	0.065	0.200	1.88
7/8	0.875	0.852	1.237	1.170	0.678	0.635	0.731	0.716	0.072	0.222	2.19
1	1.000	0.974	1.414	1.337	0.774	0.726	0.838	0.823	0.081	0.250	2.50
1-1/8	1.125	1.096	1.591	1.505	0.870	0.817	0.939	0.914	0.092	0.283	2.81
1-1/4	1.250	1.219	1.768	1.674	0.966	0.908	1.064	1.039	0.092	0.283	3.12
1-3/8	1.375	1.342	1.945	1.843	1.063	1.000	1.159	1.134	0.109	0.333	3.44
1-1/2	1.500	1.464	2.121	2.010	1.159	1.091	1.284	1.259	0.109	0.333	3.75

Basic Screw Diameter	C		P		Q		Q <sub>1</sub>		R	Y
	Cup and Flat Point Diameters		Dog and Half Dog Point Diameters		Point Length				Oval Point Radius +0.031/-0.000	Cone Point Angle 90° ±2° For These Nominal Lengths or Longer; 118° ±2° For Shorter Screws
	Max.	Min.	Max.	Min.	Dog		Half Dog			
#10	0.102	0.088	0.127	0.120	0.095	0.085	0.050	0.040	0.142	1/4
1/4	0.132	0.118	0.156	0.149	0.130	0.120	0.068	0.058	0.188	5/16
5/16	0.172	0.156	0.203	0.195	0.161	0.151	0.083	0.073	0.234	3/8
3/8	0.212	0.194	0.250	0.241	0.193	0.183	0.099	0.089	0.281	7/16
7/16	0.252	0.232	0.297	0.287	0.224	0.214	0.114	0.104	0.328	1/2
1/2	0.291	0.270	0.344	0.334	0.255	0.245	0.130	0.120	0.375	9/16
9/16	0.332	0.309	0.391	0.379	0.287	0.275	0.146	0.134	0.422	5/8
5/8	0.371	0.347	0.469	0.456	0.321	0.305	0.164	0.148	0.469	3/4
3/4	0.450	0.425	0.562	0.549	0.383	0.367	0.196	0.180	0.562	7/8
7/8	0.530	0.502	0.656	0.624	0.446	0.430	0.227	0.211	0.656	1
1	0.609	0.579	0.750	0.734	0.510	0.490	0.260	0.240	0.750	1-1/8
1-1/8	0.689	0.655	0.844	0.826	0.572	0.552	0.291	0.271	0.844	1-1/4
1-1/4	0.767	0.733	0.938	0.920	0.635	0.615	0.323	0.303	0.938	1-1/2
1-3/8	0.848	0.808	1.031	1.011	0.698	0.678	0.354	0.334	1.031	1-5/8
1-1/2	0.926	0.886	1.125	1.105	0.760	0.740	0.385	0.365	1.125	1-3/4



## Dimensions Of Hexagon Socket Dry-Seal Pressure Plugs 3/4" Taper

Material - Alloy/Hardness RC 36-43

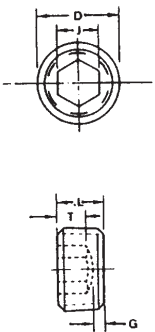


Nominal Size	D		Threads Per Inch	J Hexagon Socket Size Nominal	T Key Engagement Minimum	G Wall Thickness Minimum	L			Tightening Torque (Inch-Lbs.)
	Nominal	O.D.					Overall Length			
							Nominal	Maximum	Minimum	
1/16	.312		27	5/32	.140	.062	5/16	.324	.300	150
1/8	.405		27	3/16	.140	.062	5/16	.324	.300	250
1/4	.540		18	1/4	.218	.073	7/16	.457	.417	600
3/8	.675		18	5/16	.250	.084	1/2	.520	.480	1200
1/2	.840		14	3/8	.312	.095	9/16	.583	.542	1800
3/4	1.050		14	9/16	.312	.125	5/8	.645	.605	3000
1	1.315		11-1/2	5/8	.375	.125	3/4	.770	.730	4200
1-1/4	1.660		11-1/2	3/4	.437	.156	13/16	.832	.792	5400
1-1/2	1.900		11-1/2	1	.437	.156	13/16	.843	.780	6900
2	2.375		11-1/2	1	.437	.156	7/8	.906	.844	8500

For additional information refer to ANSI B1.20.3-1976

## Dimensions Of Hexagon Socket Flush-Seal Pressure Plugs 7/8" Taper

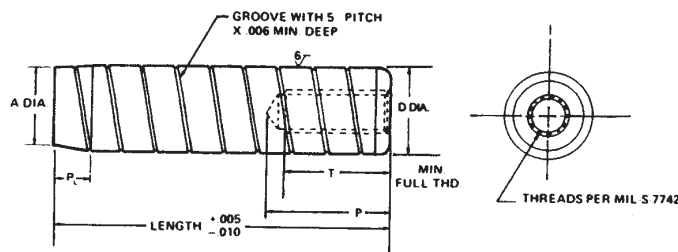
Material - Alloy/Hardness RC 36-43



Nominal Size	D		Threads Per Inch	J Hexagon Socket Size Nominal	T Key Engagement Minimum	G Wall Thickness Minimum	L		Basic Pitch Diameter at Socket Face	Tightening Torque (Inch-Lbs.)
	Nominal	O.D.					Overall Length			
							Maximum	Minimum		
1/16	.307		27	5/32	.140	.052	.250	.235	.28253	150
1/8	.401		27	3/16	.140	.049	.250	.235	.37495	250
1/4	.529		18	1/4	.218	.045	.406	.391	.49366	600
3/8	.667		18	5/16	.250	.040	.406	.391	.62904	1200
1/2	.830		14	3/8	.312	.067	.531	.516	.78103	1800
3/4	1.041		14	9/16	.312	.154	.531	.516	.99147	3000
1	1.302		11-1/2	5/8	.360	.112	.656	.641	1.24180	4200
1-1/4	1.647		11-1/2	3/4	.360	.102	.656	.641	1.58655	5400
1-1/2	1.885		11-1/2	3/4	.360	.102	.656	.641	1.82551	-

For additional information refer to ANSI B1.20.3-1976

## Holo-Krome Pull Dowel Pins



Dimensions In Inches

Nominal Size	Thread Size	A	D	P <sub>L</sub>	P	T	
		Max.	Max.	Min.	Min.	Max.	Min.
1/4	#8-32 UNC-2B	0.237	0.2503	0.2501	0.031	0.500	0.250
5/16	#10-32 UNF-2B	0.298	0.3128	0.3126	0.034	0.625	0.344
3/8	#10-32 UNF-2B	0.359	0.3753	0.3751	0.038	0.625	0.344
7/16	#10-32 UNF-2B	0.417	0.4378	0.4376	0.047	0.625	0.344
1/2	#1/4-20 UNC-2B	0.480	0.5003	0.5001	0.047	0.750	0.375
5/8	#1/4-20 UNC-2B	0.605	0.6253	0.6251	0.047	0.750	0.375
3/4	#5/16-18 UNC-2B	0.725	0.7503	0.7501	0.059	0.875	0.375
7/8	#3/8-16 UNC-2B	0.850	0.8753	0.8751	0.059	0.875	0.375
1	#3/8-16 UNC-2B	0.975	1.0003	1.0001	0.059	0.875	0.375

Holo-Krome Standard Pull Dowel Pins meet the requirements of ASME/ANSI B18.8.2.

Caution: Information is for general reference only. For more complete specifications consult the standards referenced, or contact Holo-Krome.