

Thread Size		0#	1#	2#	3#	4#	5#	6#	8#
d									
d	thread length	0.06	0.073	0.086	0.099	0.112	0.125	0.138	0.164
PP	UNC	-	64	56	48	40	40	32	32
	UNF	80	72	64	56	48	44	40	36
	UNEF	-	-	-	-	-	-	-	-
s	Nominal Size	0.028	0.035	0.035	0.05	0.05	0.062	0.062	0.078
t ^③	min	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09
d _z	max	0.027	0.035	0.043	0.051	0.059	0.068	0.074	0.09
	min	0.022	0.03	0.038	0.046	0.054	0.063	0.068	0.084
L ₀ ^②		0.13	0.13	0.13	0.19	0.19	0.19	0.19	0.19
t ₁	max	0.007	0.008	0.01	0.011	0.013	0.014	0.017	0.021
	min	0.004	0.005	0.007	0.007	0.008	0.009	0.012	0.016

①,Material

a、Fabricated from alloy steel and shall conform in all respects to ASTM F912

b、Fabricated from corrosion-resistant steel and shall conform in all respects to ASTM F880

②,When the length L of the screw is less than or equal to L₀ in the table, it is a short screw; if L is greater than L₀, it is a long screw.

③,The key engagement dimensions t shall apply only to nominal screw lengths L equal to or longer than the lengths L₀ listed in this Table. For hexagon socket key engagement dimensions in screws of shorter nominal lengths than L₀ of this Table, please refer to the standard original.

④,The use of short-length set screws listed in this Table can result in failure of the socket, key, or mating threads during tightening because key engagement and thread length are less than optimum. Therefore, it is strongly recommended that screws of

lengths equal to or greater than the lengths specified in columns L₀ of the table be used wherever possible.

Thread Size d		10#	1/4	5/16	3/8	7/16	1/2	5/8	3/4
d	thread length	0.1900	0.2500	0.3125	0.3750	0.4375	0.5000	0.6250	0.7500
PP	UNC	24.0	20.0	18.0	16.0	14.0	13.0	11.0	10.0
	UNF	32.0	28.0	24.0	24.0	20.0	20.0	18.0	16.0
	UNEF	-	32.0	32.0	32.0	28.0	28.0	24.0	20.0
s	Nominal Size	0.094	0.125	0.156	0.188	0.219	0.250	0.312	0.375
t ^③	min	0.100	0.125	0.156	0.188	0.219	0.250	0.312	0.375
d _z	max	0.101	0.156	0.190	0.241	0.286	0.333	0.425	0.523
	min	0.095	0.150	0.185	0.236	0.281	0.328	0.420	0.518
L ₀ ^②		0.19	0.25	0.31	0.38	0.44	0.5	0.63	0.75
t ₁	max	0.024	0.027	0.038	0.041	0.047	0.054	0.067	0.081
	min	0.019	0.022	0.033	0.036	0.042	0.049	0.062	0.076

①,Material

a、Fabricated from alloy steel and shall conform in all respects to ASTM F912

b、Fabricated from corrosion-resistant steel and shall conform in all respects to ASTM F880

②,When the length L of the screw is less than or equal to L₀ in the table, it is a short screw; if L is greater than L₀, it is a long screw.

③,The key engagement dimensions t shall apply only to nominal screw lengths L equal to or longer than the lengths L₀ listed in this Table. For hexagon socket key engagement dimensions in screws of shorter nominal lengths than L₀ of this Table, please refer to the standard original.

④,The use of short-length set screws listed in this Table can result in failure of the socket, key, or mating threads during tightening because key engagement and thread length are less than optimum. Therefore, it is strongly recommended that screws of

lengths equal to or greater than the lengths specified in columns L₀ of the table be used wherever possible.