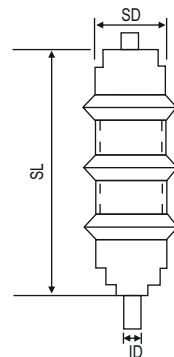


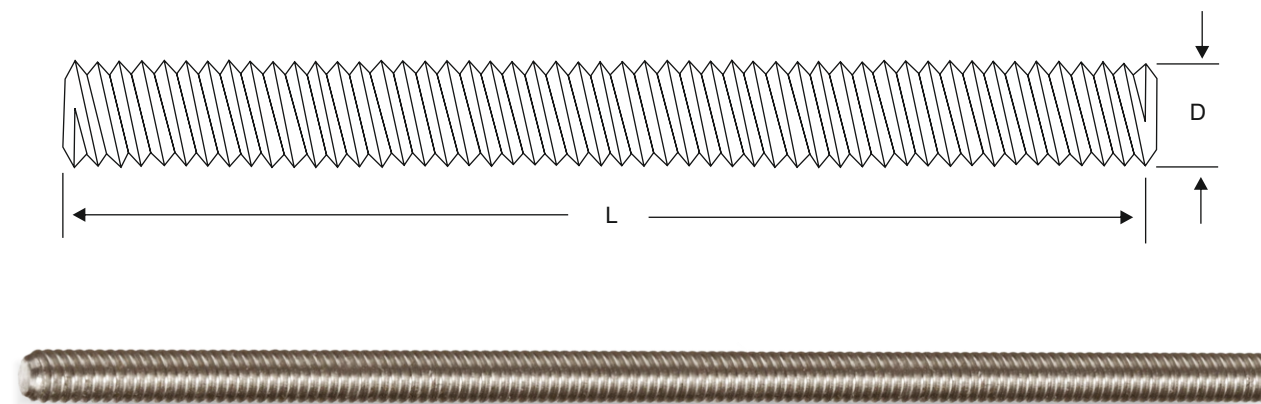
### DETAIL OF SLEEVE

PLASTIC ANCHOR BOLT SLEEVES SHALL BE USED WHERE REQUIRED BY DESIGN. TOP OF SLEEVE SHALL BE CUT OFF TO MAINTAIN EMBEDMENT LENGTH WHERE NO SLEEVE IS USED.



PRODUCT CODE	ANCHOR BOLTS			SLEEVE	
	Dia in Inches	Dia in MM = d	L Total Length	SL	SD
HSG0001	1/2"	12	355		
HSG0002	5/8"	16	355	130	52
HSG0003	3/4"	20	405	180	52
HSG0004	7/8"	22	460	180	52
HSG0005	1"	24	510	255	77
HSG0006	1-1/8"	27	560	255	77
HSG0007	1-1/4"	33	610	255	77
HSG0008	1-3/8"	36	680	255	77
HSG0009	1-1/2"	39	730	380	102
HSG00010	1-5/8"	42	800	380	102
HSG00011	1-3/4"	45	865	380	102
HSG00012	2"	50	990	455	102
HSG00013	2-1/4"	56	1100	455	102
HSG00014	2-1/2"	64	1240	605	152

Coating : Mill Finish, Electro Galv. & Hotdip Galv.  
 Grade : 4.6, A307A, A307B, ASTM A36, 8.8, B7, SS304 & SS316.



### Dimensions :

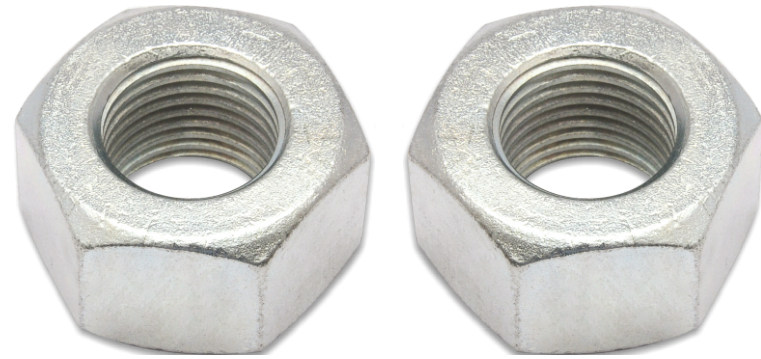
#### Note :

- The thread bars will conform to A-36, A307-B, B-7, 4.6, 8.8 & 10.9.
- As per standard.

PRODUCT CODE	MM	PITCH	PITCH	
			Coarse	Fine
HSG00015	06	1.00		
HSG00016	08	1.25		
HSG00017	10	1.50		
HSG00018	12	1.75		
HSG00019	14	2.00		
HSG00020	16	2.50		
HSG00021	18	2.50		
HSG00022	20	2.50		
HSG00023	22	3.00		
HSG00024	24	3.00		
HSG00025	27	3.00		
HSG00026	30	3.50		
HSG00027	33	3.50		
HSG00028	36	4.00		
HSG00029	39	4.00		
HSG00030	42	4.50		
HSG00031	45	4.50		
HSG00032	48	5.00		
HSG00033	52	5.00		
HSG00034	56	5.50		
HSG00035	64	6.00		

PRODUCT CODE	UNC	PITCH	
		Coarse	Fine
HSG00036	1/4"	20	20
HSG00037	5/16"	18	18
HSG00038	3/8"	16	16
HSG00039	1/2"	13	13
HSG00040	5/8"	11	11
HSG00041	3/4"	10	10
HSG00042	7/8"	9	9
HSG00043	1"	8	8
HSG00044	1-1/8"	7	8
HSG00045	1-1/4"	7	8
HSG00046	1-1/2"	6	8
HSG00047	1-3/4"	5	8
HSG00048	2"	4	8
HSG00049	2-1/2"	4.5	8

Coating : Electro Galv., Hotdip Galv., Stainless Steel & Brass.



**Grade :**

1. STANDARD HEX NUT AS PER ISO-934/ DIN-555 CLASS 4.8, 8.8 & 10.9.
2. HEAVY HEX NUT A563M 10-S.

PRODUCT CODE	THREAD SIZE	PITCH
HSG00050	M06	1.00
HSG00051	M08	1.25
HSG00052	M10	1.50
HSG00053	M12	1.75
HSG00054	M14	2.00
HSG00055	M16	2.00
HSG00056	M18	2.50
HSG00057	M20	2.50
HSG00058	M22	2.50
HSG00059	M24	3.00
HSG00060	M27	3.00
HSG00061	M30	3.50
HSG00062	M33	3.50
HSG00063	M36	4.00
HSG00064	M39	4.00
HSG00065	M42	4.50
HSG00066	M45	4.50
HSG00067	M48	5.00
HSG00068	M52	5.00
HSG00069	M56	5.50
HSG00070	M60	5.50
HSG00071	M64	6.00
HSG00072	M72	6.00
HSG00073	M76	6.00

Finish : SELF, BLACK, E-GALV, YELLOW, HDG & PTFE.

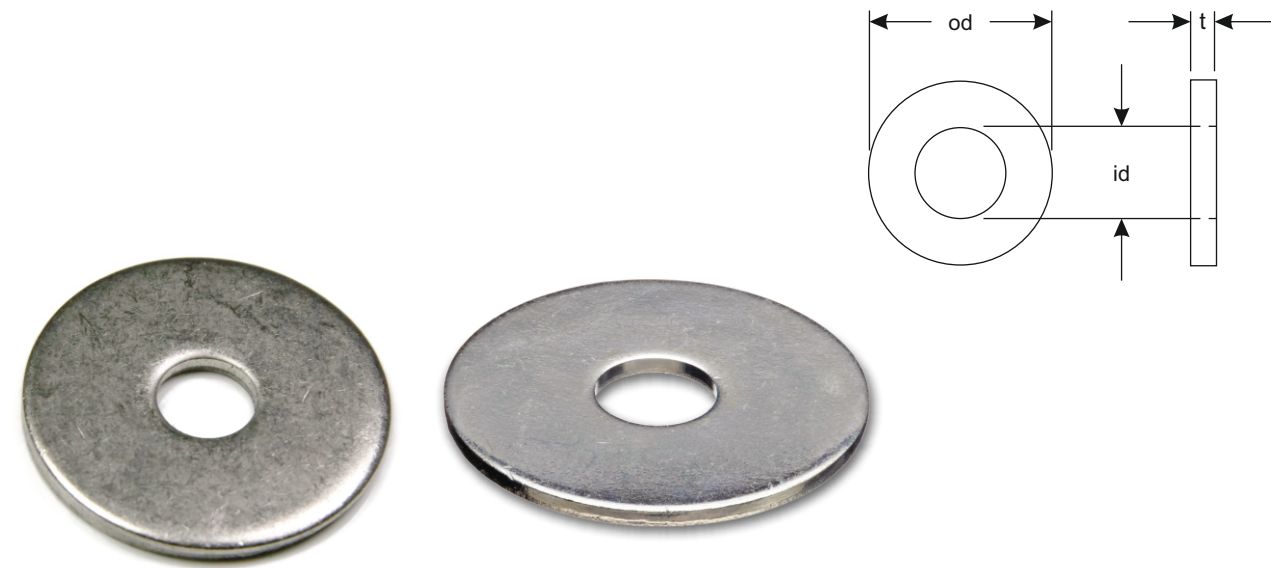


**Grade :**

1. HEAVY HEX NUT A563 Gr A & B.
2. HEAVY HEX NUT A194 2H, 2HM, GR4 & GR7.

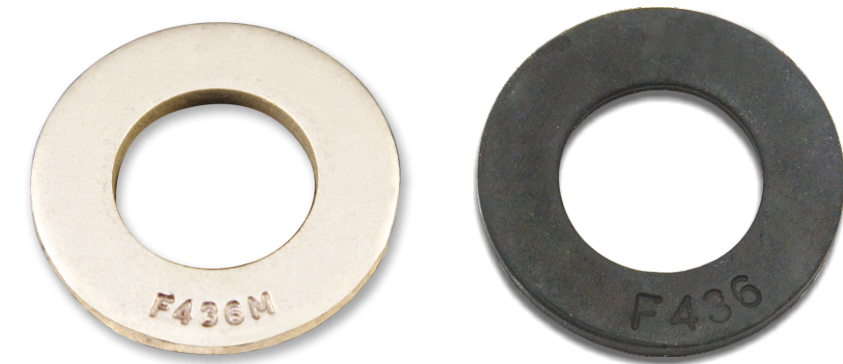
PRODUCT CODE	NOMINAL SIZE OR BASIC MAJOR DIAMETER OF THREAD	PITCH	
		COARSE	FINE
HSG00074	1/2"	13	13
HSG00075	5/8"	11	11
HSG00076	3/4"	10	10
HSG00077	7/8"	9	9
HSG00078	1"	8	8
HSG00079	1-1/8"	7	8
HSG00080	1-1/4"	7	8
HSG00081	1-3/8"	6	8
HSG00082	1-1/2"	6	8
HSG00083	1-5/8"	5	8
HSG00084	1-3/4"	5	8
HSG00085	1-7/8"	4.5	8
HSG00086	2"	4.5	8
HSG00087	2-1/4"	4.5	8
HSG00088	2-1/2"	4	8
HSG00089	2-3/4"	4	8
HSG00090	3"	4	8
HSG00091	3-1/4"	4	8
HSG00092	3-1/2"	4	8
HSG00093	3-3/4"	4	8
HSG00094	4"	4	8

Finish : SELF, BLACK, E-GALV, YELLOW, HDG & PTFE.



PRODUCT CODE	MM	INTERNAL DIA (id)	EXTERNAL DIA (od)		THICKNESS (t)
			Light Duty	Heavy Duty	
HSG00095	04	4.3	12	16	1.20
HSG00096	05	5.3	15	20	1.20
HSG00097	06	6.4	18	24	1.60
HSG00098	08	8.4	24	32	2.00
HSG00099	10	10.5	30	40	2.50
HSG00100	12	13	37	48	3.00
HSG00101	14	15	44	56	3.00
HSG00102	16	17	50	64	3.00
HSG00103	20	21	60	80	3.50
HSG00104	22	23.5	68	88	3.50
HSG00105	24	25.5	72	96	3.50

Coating : Self, Black, Electro Galv., Cadmium & Hotdip Galv.  
 Grade : ASTM A36, CRC, SS 304, SS 316, Brass, Copper & Silicon Bronze



PRODUCT CODE	F436 SIZE (Inches)	PRODUCT CODE	F436M SIZE (MM)
HSG00106	3/8"	HSG00128	12
HSG00107	1/2"	HSG00129	16
HSG00108	5/8"	HSG00130	20
HSG00109	3/4"	HSG00131	22
HSG00110	7/8"	HSG00132	24
HSG00111	1"	HSG00133	27
HSG00112	1-1/8"	HSG00134	30
HSG00113	1-1/4"	HSG00135	33
HSG00114	1-3/8"	HSG00136	36
HSG00115	1-1/2"	HSG00137	39
HSG00116	1-5/8"	HSG00138	42
HSG00117	1-3/4"	HSG00139	45
HSG00118	1-7/8"	HSG00140	48
HSG00119	2"	HSG00141	52
HSG00120	2-1/4"	HSG00142	56
HSG00121	2-1/2"	HSG00143	60
HSG00122	2-3/4"	HSG00144	64
HSG00123	3"	HSG00145	72
HSG00124	3-1/4"	HSG00146	76
HSG00125	3-1/2"	HSG00147	80
HSG00126	3-3/4"	HSG00148	90
HSG00127	4"	HSG00149	100

Coating : Self, Black, Electro Galv., Hotdip Galv & Ceramic Fluoropolymer Coatings.  
 Grade : SAE1045 & Hardened.