

THREADED RODS

Gestión de Compras offer to his customers a wide range of threaded rods to meets all their needs.

PRODUCT:

Threaded rod, also called as stud, is a long bar that is threaded on both ends or along its complete length.

Threaded rod can be thread in different directions, right hand, left hand or both right hand and left hand. Right hand threads are configured so that clockwise rotation tightens the threaded rod to a fastener. Left hand threads are less common, but well suited for applications in which motor vibration would cause right handed threads to loosen. When thread direction is not specified, the default direction is usually to the right. Threaded rods with both right hand threads and left hand threads have right threads at one end of the rod, and left threads at the opposite end. This dual thread style is used for specialty assemblies such as turnbuckles.



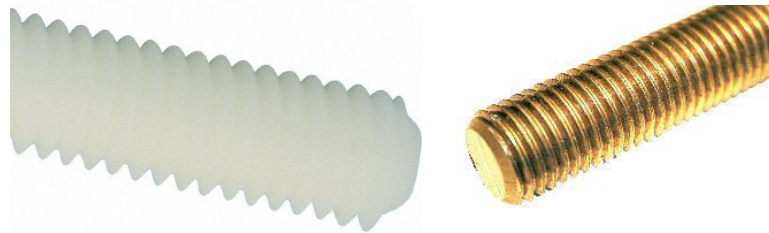
PRODUCTION:

Thread and form rolling is a simple cold forging process confined almost entirely to external threads. During cold forging process, hardened steel dies are used to roll the threads; the threaded faces of these dies are pressed against the surface of a plain cylindrical blank. In penetrating in the surface of the blank, the dies displace the material forming the thread.

In **Gestión de Compras** we are experts on manufacture threaded rods according to most demanded standards, thus as according to customer specifications for special applications.

MATERIALS AND APLICATIONS:

Threaded rods can be made of many materials as mild steel, stainless steel, aluminum, brass, copper, titanium, plastic, nylon, PVC, rubber... Moreover, metallic threaded rod can be anodized, treated with black oxide, chrome galvanized, phosphate coated, or plated with silver, gold or zinc.



Threaded rods can be used for in many industries for many different applications, such as for use with most standard size fasteners, manufacturing, construction and automotive industries, electrical and plumbing purposes, for special purpose machineries where proper alignment is required, to secure parts together...

TOLERANCES:

Dimensional tolerance determines how the threaded rod assemble with the nut without interference, that is, the clearance fits between them. For example, in the case of Unified inch screw threads there are three standard classes for external threads: 1A, 2A, and 3A, being the biggest tolerance for 1A and the narrowest for 3A.

STANDARD AND CERTIFICATES:

We have the means to ensure our products comply the general regulation and the specific certificated regulations in manufacturing products that requires them.

- ISO 9001.
- ISO 14001.
- TS 16949.
- OHSAS 18001.

Threaded rod and stud common DIN standards:

- DIN 975 Fully Threaded Rod.
- DIN 976A Fully Threaded Stud Bolt- No Bevel.
- DIN 976B Fully Threaded Stud Bolt- Beveled.
- DIN 976 Fully Threaded Studs (All types).
- DIN 835, DIN 938, DIN 939, DIN 940, Metal End- Double End- Tap End Stud.
- DIN 71803 Ball Stud- all Form Types.



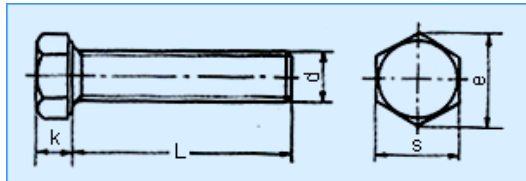
FASTENERS



BOLTS, SCREWS AND SOCKETS

HEXAGON HEAD SCREWS

DIN 933



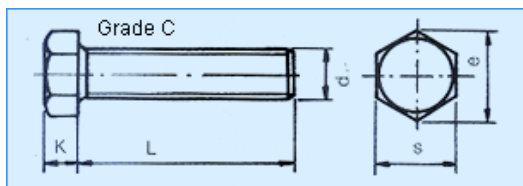
STRENGTH GRADE
8.8
10.9
12.9

mm

Thread size	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Pitch	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5
k	2.8	3.5	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15	17	18.7
e	Grade A	7.66	8.79	11.05	14.38	18.9	21.1	24.49	26.75	30.14	33.53	35.72	35.98	45.2
	Grade B	-	8.63	10.89	14.2	18.72	20.88	23.91	26.17	29.56	32.95	35.03	39.55	50.85
S	7	8	10	13	17	19	22	24	27	30	32	36	41	46
L	8-40	8-40	8-50	12-60	16-60	20-80	25-80	30-100	30-100	40-100	50-100	50-100	60-100	70-100

HEXAGON HEAD SCREWS

DIN 558



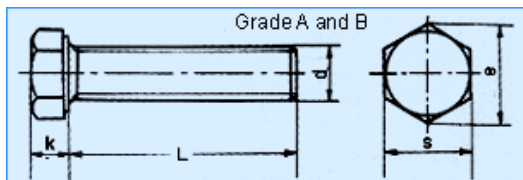
STRENGTH GRADE
8.8

mm

Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36
Pitch	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4
k	3.5	4	5.3	6.4	7.5	10	12.5	15	18.7	22.5
e	8.63	10.89	14.2	18.72	20.88	26.17	32.95	39.55	50.85	60.79
S	8	10	13	17	19	24	30	36	46	55
L	10-40	12-50	16-65	16-80	20-100	25-100	30-100	35-100	40-100	50-100

HEXAGON HEAD SCREWS

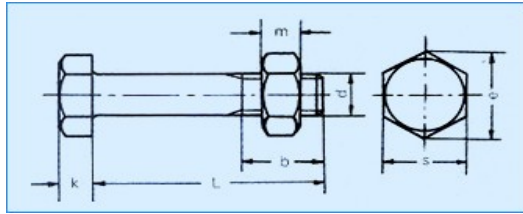
ISO 4017



STRENGTH GRADE
8.8
10.9
12.9

mm

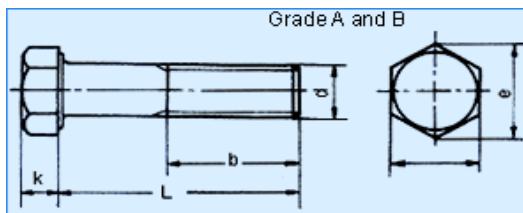
Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36
Pitch	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4
k	3.5	4	5.3	6.4	7.5	10	12.5	15	18.7	22.5
e	Grade A	8.79	11.05	14.38	17.77	20.03	26.75	33.53	39.98	-
	Grade B	-	-	-	-	-	26.17	32.95	39.55	50.85
S	8	10	13	16	18	24	30	36	46	55
L	8-40	8-50	12-60	16-60	20-80	30-100	40-100	50-100	70-100	80-100

HEXAGON BOLTS WITH HEXAGON NUT
DIN 7990

STRENGTH GRADE

10.9

mm

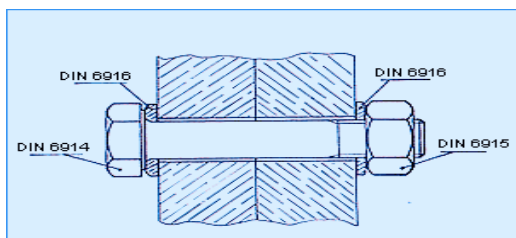
d1	M12	M16	M20	M22	M24	M27	M30
d	17.75	21	23.5	25.5	26	29	30.5
e	20.88	26.17	32.95	35.03	39.55	45.20	50.85
k	8	10	13	14	15	17	19
m	10	13	16	18	19	22	24
s	19	24	30	32	36	41	46
L	30-120	35-150	40-175	40-200	45-200	60-200	80-200

HEXAGON HEAD BOLTS
DIN 931

STRENGTH GRADE

 8.8
 10.9
 12.9

mm

Thread size	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Pitch	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5
b	125	14	16	18	22	26	30	34	38	42	46	50	54	60
	L ≥ 200	-	22	24	28	32	36	40	44	48	52	56	60	66
	200	-	-	-	-	45	49	53	57	61	65	69	73	79
k	2.8	3.5	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15	17	18.7
e	A	7.66	8.79	11.05	14.38	18.9	21.1	24.49	26.75	30.14	33.53	35.72	39.98	45.2
	B	-	8.63	10.89	14.20	18.72	20.88	23.91	26.17	29.56	32.95	35.03	39.55	45.2
S	7	8	10	13	17	19	22	24	27	30	32	36	41	46
L	25-40	25-50	30-60	35-80	40-100	45-120	50-140	55-160	65-180	65-200	70-220	80-240	90-260	90-300

HEXAGON BOLTS WITH LARGE WIDTHS ACROSS FLATS
DIN 6914

STRENGTH GRADE

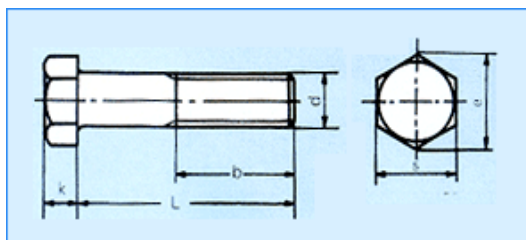
10.9

mm

DIN6914	Diameter d	M12-M30	Length L	30-200
Nuts	Diameter D	M12-M30	-	-
Washers	Diameter d	M13-M31	-	-

HEXAGON HEAD BOLTS

DIN 601



STRENGTH GRADE

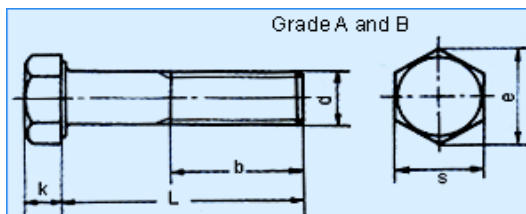
4.8

mm

Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M27	M30	M36	
Pitch	0.8	1	1.25	1.5	1.75	2	2.5	3	3	3.5	4	
b	L ≤ 125	16	18	22	26	30	38	46	54	60	66	78
	125 < L ≤ 200	22	24	28	32	36	44	52	60	66	72	84
	L > 200	35	37	41	45	49	57	65	73	79	85	97
k	3.5	4	5.3	6.4	7.5	10	12.5	15	17	18.7	22.5	
e	8.63	10.89	14.2	18.72	20.88	26.17	32.95	39.55	45.2	50.85	60.79	
S	8	10	13	17	19	24	30	36	41	46	55	
L	25-50	30-60	35-80	40-100	45-100	55-100	65-200	80-240	90-300	90-300	300	

HEXAGON HEAD BOLTS

ISO 4014



STRENGTH GRADE

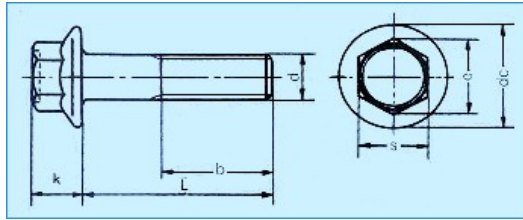
8.8

10.9

12.9

mm

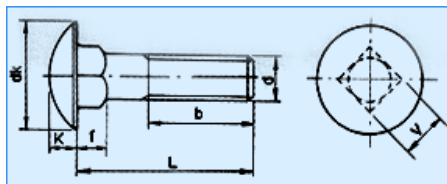
Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36+	
Pitch	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4	
b	L ≤ 125	16	18	22	26	30	38	46	54	66	-
	125 < L ≤ 200	-	-	-	-	-	44	52	60	72	84
	L > 200	-	-	-	-	-	-	73	85	97	-
k	3.5	4	5.3	6.4	7.5	10	12.5	15	18.7	22.5	
e	Grade A	8.79	11.05	14.38	17.77	20.03	26.75	33.53	39.98	-	-
	Grade B	-	-	-	-	-	26.17	32.95	39.56	50.85	60.79
S	8	10	13	16	18	24	30	36	46	55	
L	25-50	30-60	35-80	40-100	45-120	55-160	65-200	80-240	90-300	300	

HEX FLANGE BOLTS & SCREWS
DIN 6921


STRENGTH GRADE
4.8
8.8

mm

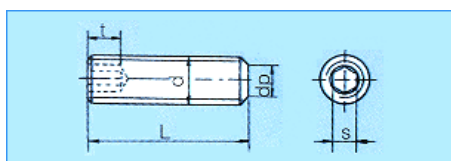
Thread size	M5	M6	M8	M10	M12	M14	M16	M20
Pitch	0.8	1	1.25	1.5	1.75	2	2	2.5
b	L ≤ 125	16	18	22	26	30	34	46
	125 < L ≤ 200	-	-	28	32	36	40	52
	L > 200	-	-	-	-	-	-	65
dc	11.8	14.2	18	22.3	26.6	30.5	35	43
k	5.4	6.6	8.1	9.2	11.5	12.8	14.4	17.1
e	8.71	10.95	14.26	16.5	17.62	19.86	23.15	29.87
S	8	10	13	15	16	18	21	27
L	oct-50	dic-60	16-80	20-100	25-120	30-140	35-160	40-200

MUSHROOM HEAD SQUARE NECK BOLTS
DIN 603


STRENGTH GRADE
4.8
8.8

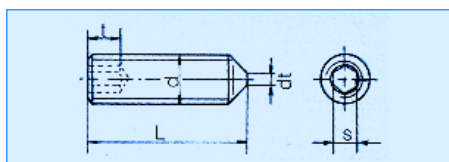
mm

Thread size	M6	M8	M10	M12
Pitch	1	1.25	1.5	1.75
b	L ≤ 125	18	22	30
	125 < L ≤ 200	24	28	36
	L > 200	-	41	49
dk	16.55	20.65	24.65	30.65
f	4.6	5.6	6.6	8.75
k	3.88	4.88	5.38	6.95
v	6.48	8.58	1.58	12.7
L	16-80	20-100	20-100	30-100

HEXAGON SOCKET SET SCREWS WITH FLAT POINT
DIN 913


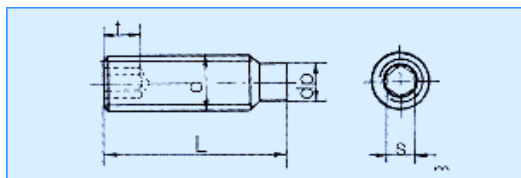
mm

Thread size	M3	M4	M5	M6	M8	M10	M12	M16	M20
dp	2	2.5	3.5	4	5.5	7	8.5	12	15
s	1.5	2	2.5	3	4	5	6	8	10
t	1.2	1.5	2	2	3	4	4.8	6.4	8
L	4-16	5-20	6-25	8-30	10-40	12-50	16-60	20-60	25-60

HEXAGON SOCKET SET SCREWS WITH CONE POINT
DIN 914


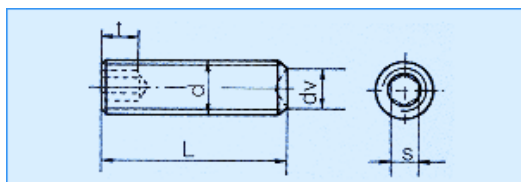
Thread size	M3	M4	M5	M6	M8	M10	M12	M16	M20
dt	-	-	-	1.5	2	2.5	3	4	5
s	1.5	2	2.5	3	4	5	6	8	10
t	1.2	1.5	2	2	3	4	4.8	6.4	8
L	5-16	6-20	8-25	10-30	12-40	16-50	20-60	25-60	30-60

mm

HEXAGON SOCKET SET SCREWS WITH DOG POINT
DIN 915


Thread size	M3	M4	M5	M6	M8	M10	M12	M16	M20
dp	2	2.5	3.5	4	5.5	7	8.5	12	15
s	1.5	2	2.5	3	4	5	6	8	10
t	1.2	1.5	2	2	3	4	4.8	6.4	8
z	short	0.75	1	1.25	1.5	2	2.5	3	4
	Long	1.5	2	2.5	3	4	5	6	8
L	6-16	8-20	10-25	14-30	16-40	20-50	25-60	30-60	35-60

mm

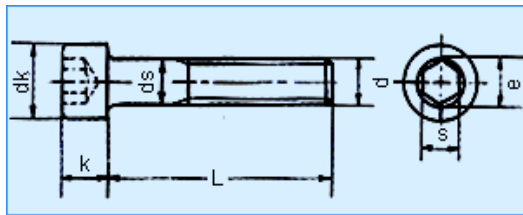
HEXAGON SOCKET SET SCREWS WITH CUP POINT
DIN 916


Thread size	M3	M4	M5	M6	M8	M10	M12	M16	M20
dv	1.4	2	2.5	3	5	6	8	10	14
s	1.5	2	2.5	3	4	5	6	8	10
t	1.2	1.5	2	2	3	4	4.8	6.4	8
L	4-16	5-20	6-25	8-30	10-40	12-50	16-60	20-60	25-60

mm

HEXAGON SOCKET HEAD CAP SCREWS

DIN 912



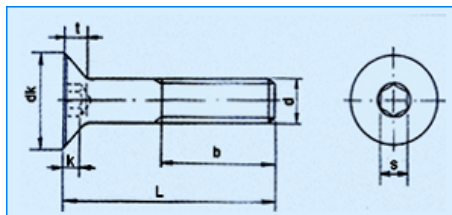
STRENGTH GRADE
8.8
10.9
12.9

mm

Thread size	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20
pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5
dk	5.32	6.78	8.28	9.78	12.73	15.73	17.73	20.67	23.67	29.67
ds	3	4	5	6	8	10	12	14	16	20
k	2.86	3.82	4.82	5.7	7.64	9.64	11.57	13.57	15.57	19.48
e	2.87	3.44	4.58	5.72	6.86	9.15	11.43	13.72	16	19.44
s	2.5	3	4	5	6	8	10	12	14	17
L	5-30	6-40	8-50	10-60	12-80	16-100	20-120	25-140	25-160	30-200

HEXAGON SOCKET COUNTERSUNK HEAD CAP SCREWS

DIN 7991

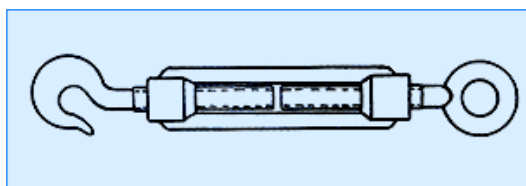


mm

Thread size	M3	M4	M5	M6	M8	M10	M12	M16	M20	
b	L < 125	12	14	16	18	22	26	30	38	46
	125 < L ≤ 200				24	28	32	36	44	52
	L > 200					45	49	57	65	
dk	6	8	10	12	16	20	24	30	36	
k	1.70	2.30	2.80	3.30	4.40	5.50	6.50	7.50	8.50	
s	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.0	12.0	
t	0.95	1.55	2.05	2.25	3.20	4.10	4.30	5.00	5.60	
L	8-30	8-40	10-50	12-50	16-60	20-70	25-70	35-90	40-100	

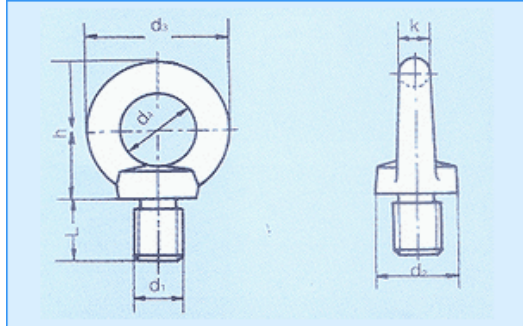
TURNBUCKLE WITH HOOK AND EYE

DIN 1480



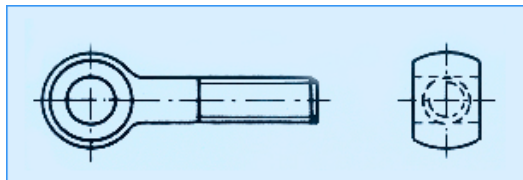
mm

SIZE AVAILABLE										
THREAD SIZE	6X10	8X110	10X12	12X12	14X14	16X17	20X20	22X22	24X25	30X25

LIFTING EYE BOLTS
DIN 580


mm

d1	M8	M10	M12	M16	M20	M24	M30	M36
d2	20	25	30	35	40	50	65	75
d3	36	45	54	63	72	90	108	128
d4	20	25	30	35	40	50	60	70
h	36	45	53	62	71	90	109	128
k	8	10	12	14	16	20	24	28
L	13	17	20.5	27	30	36	45	54

EYE BOLTS
DIN 444


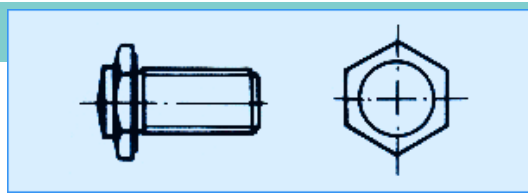
mm

Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M30
Length	30-50	30-60	40-80	50-100	60-120	60-150	65-200	80-200	90-300

ANCHOR BOLTS
DIN 529


mm

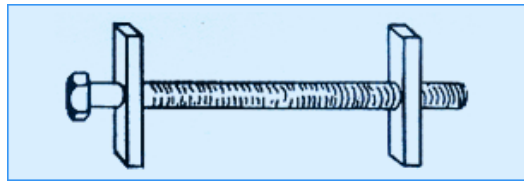
Thread size	M8	M10	M12	M16	M20	M24	M30
Length	80-125	111-160	180	200	250	320	400



S

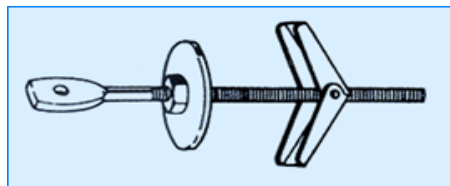
Thread size	M8×19
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DRAW BOLTS



size	1/4-20 × 3-1/2	1/4-20 × 4
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ACOUSTICAL TOGGLES

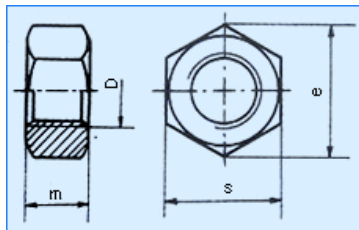


size	1/4-20 × 4-1/4
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NUTS

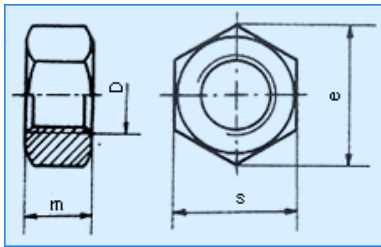
HEXAGON NUTS

DIN 555



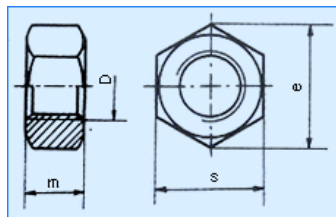
Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48	M56
Pitch	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5	5.5
m	4	5	6.5	8	10	13	16	19	24	29	34	38	45
e	8.63	10.89	14.2	18.72	20.88	26.17	32.95	39.55	50.85	60.79	71.3	82.6	93.56
s	8	10	13	17	19	24	30	36	46	55	65	75	85

mm

HEXAGON NUTS
DIN 934


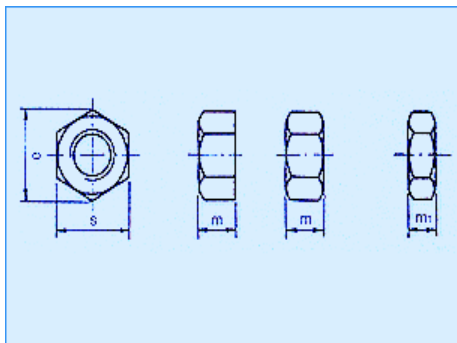
Thread size	M2	M3	M4	M5	M6	M8	M10	M12	M16
Pitch	0.4	0.5	0.7	0.8	1	1.25	1.5	1.75	2
m	1.6	2.4	3.2	4	5	6.5	8	10	13
e	4.32	6.01	7.66	8.79	11.05	14.38	18.9	21.1	16.75
s	4	5.5	7	8	10	13	17	19	24
Thread size	M20	M24	M30	M36	M42	M48	M56		
Pitch	2.5	3	3.5	4	4.5	5	5.5		
m	16	19	24	29	34	38	45		
e	32.95	39.55	50.85	60.79	71.3	82.6	93.56		
s	30	36	46	55	65	75	85		

mm

BRIGHT MILD STEEL HEX NUTS
B.S. 1083


Thread size	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2
Pitch	40	32	24	20	18	16	14	12
s	5.59	7.6	8.23	11.30	13.34	15.24	18.03	20.83
e	6.40	8.20	9.50	13.00	15.30	17.50	20.70	24.10
m	3.04	3.88	4.24	5.08	6.35	7.92	9.53	11.10

inches

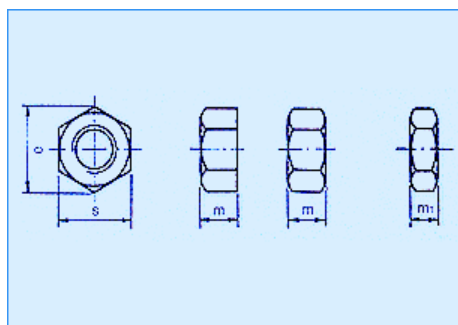


inches

Thread size	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8
e	0.505	0.577	0.650	0.794	0.866	1.010	1.083	1.300	1.515
s	0.437	0.500	0.562	0.687	0.750	0.875	0.937	1.125	1.312
m	0.224	0.271	0.333	0.380	0.442	0.489	0.552	0.651	0.760
m1	0.286	0.333	0.411	0.458	0.567	0.614	0.724	0.822	0.916
m2	0.161	0.192	0.224	0.255	0.317	0.349	0.380	0.432	0.494
Thread size	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2		
e	1.732	1.948	2.165	2.382	2.598	3.031	3.461		
s	1.500	1.687	1.875	2.062	2.250	2.625	3.000		
m	0.874	0.989	1.087	1.197	1.311	1.530	1.754		
m1	1.015	1.176	1.275	1.400	1.530	-	-		
m2	0.562	0.629	0.744	0.806	0.874	0.999	1.129		

HEXAGON NUTS

B.S. 1769

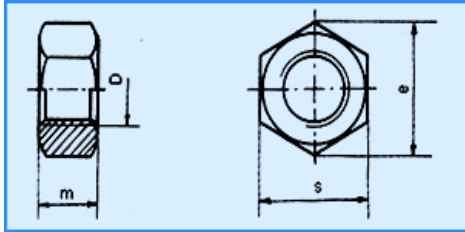


inches

Thread size	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2
P UNC	13	11	10	9	8	7	7	6	6	5	4 1/2
P UNF	20	18	16	14	12	12	12	12	12	-	-
e	1.01	1.23	1.44	1.66	1.88	2.09	2.31	2.53	2.74	3.18	3.61
s	0.875	1.062	1.250	1.437	1.625	1.812	2.000	2.187	2.375	2.750	3.125
m	0.520	0.647	0.774	0.901	1.028	1.155	1.282	1.409	1.536	1.790	2.044
m1	0.332	0.397	0.462	0.526	0.590	0.655	0.782	0.846	0.911	1.040	1.169

HEXAGON NUTS

AS1112

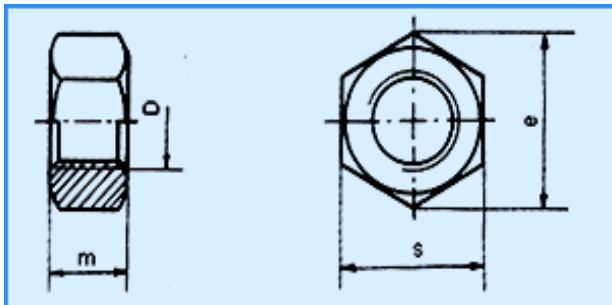


mm

Thread size	M2	M3	M4	M5	M6	M8	M10	M12	M16
Pitch	0.4	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0
s	1.6	2.4	3.2	4.7	5.2	6.8	8.4	10.8	14.8
e	4.32	6.01	7.66	8.79	11.05	14.38	17.77	20.03	26.75
s	4	5.5	7	8	10	13	16	18	24
Thread size	M20	M24	M30	M36	M42	M48	M56		
Pitch	2.5	3.0	3.5	4.0	4.5	5.0	5.5		
s	18	21.5	25.6	31	34.8	38.8	45.8		
e	32.95	39.55	50.85	60.79	71.30	82.60	93.50		
s	30	36	46	55	65	75	85		

HEXAGON NUTS

ISO 4032

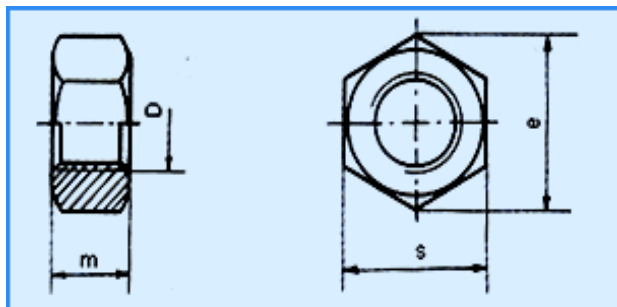


mm

Thread size	M2	M3	M4	M5	M6	M8	M10	M12	M16
Pitch	0.4	0.5	0.7	0.8	1	1.25	1.5	1.75	2
m	1.6	2.4	3.2	4.7	5.2	6.8	8.4	10.8	14.8
e	4.32	6.01	7.66	8.79	11.05	14.38	17.77	20.03	26.75
s	4	5.5	7	8	10	13	16	18	24
Thread size	M20	M24	M30	M36	M42	M48	M56		
Pitch	2.5	3	3.5	4	4.5	5	5.5		
m	18	21.5	25.6	31	34	38	45		
e	32.95	39.55	50.85	60.79	71.3	82.6	93.56		
s	30	36	46	55	65	75	85		

HEXAGON NUTS

ISO 4033

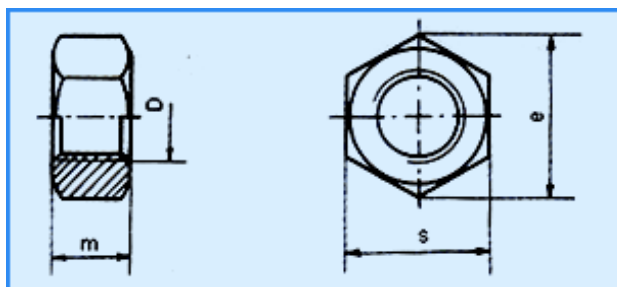


Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36
Pitch	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4
m	5.1	5.7	7.5	9.3	12	16.4	20.3	23.9	28.6	34.7
e	8.79	11.05	14.38	17.77	20.03	26.75	32.95	39.55	50.85	60.79
s	8	10	13	16	18	24	30	36	46	55

mm

HEXAGON NUTS

ISO 4034

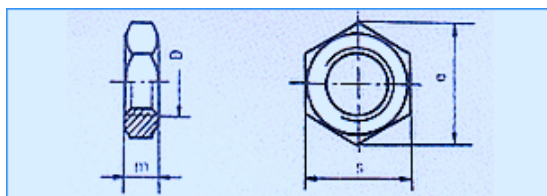


Thread size	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36
Pitch	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4
m	5.6	6.1	7.9	9.5	12.2	15.9	19	22.3	26.4	31.5
e	8.63	10.89	14.20	17.59	19.85	26.17	32.95	39.55	50.85	60.79
s	8	10	13	16	18	24	30	35	45	53.8

mm

HEXAGON THIN NUTS

ISO 4035

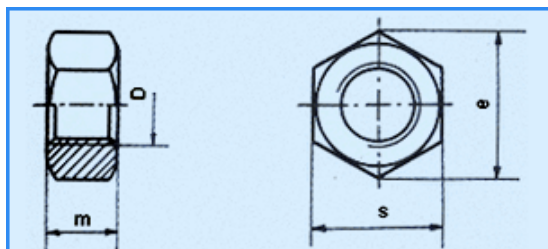


Thread size	M10	M12	M14	M22
Pitch	1.5	1.75	2	2.5
m	5	6	7	11
e	17.77	20.03	23.35	37.29
s	16	18	21	24

mm

HEXAGON NUTS

UNI 5587

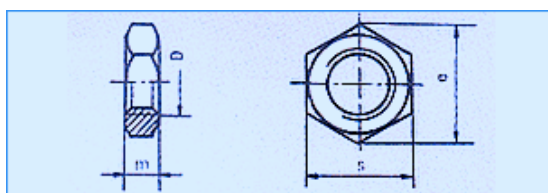


Thread size	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30
m	3	4	5	6	8	10	12	16	20	24	30
e	6.08	7.74	8.87	11.05	14.38	18.90	21.10	26.75	33.53	39.98	51.29
s	5.5	7	8	10	13	17	19	24	30	36	46

mm

CHAMFERED HEXAGON THIN NUTS

DIN 439

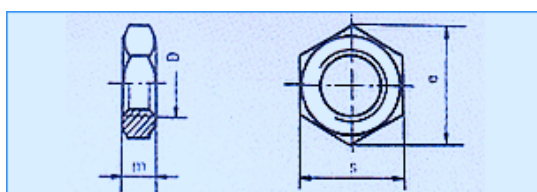


Thread size	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5
m	1.8	2.2	2.7	3.2	4	5	6	8	10	12	15	18	21	24
e	6.01	7.66	8.79	11.05	14.38	18.9	21.1	26.75	32.95	39.55	50.85	60.79	71.3	82.6
s	5.5	7	8	10	13	17	19	24	30	36	46	55	65	75

mm

HEXAGON THIN NUTS

DIN 936

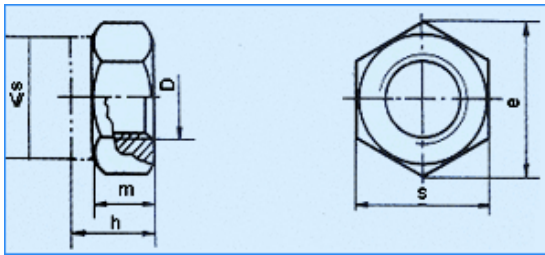


Thread size	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48
Pitch	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5
m	5	6	7	8	9	10	12	14	16	18
e	14.38	18.90	21.1	26.75	32.95	39.55	50.85	60.79	71.3	82.6
s	13	17	19	24	30	36	46	55	65	75

mm

ALL-METAL PREVALLING TORQUE TYPE HEXAGON NUTS

DIN 980

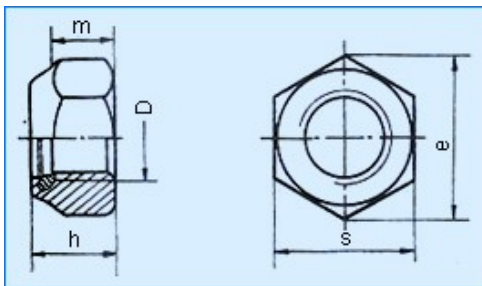


mm

Thread size	M5	M6	M8	M10	M12	M14	M16	M18	M20
Pitch	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5
h	5.1	6	8	10	12	14	16	18	20
e	8.79	11.05	14.38	18.9	21.1	24.49	26.75	29.56	32.95
s	8	10	13	17	19	22	24	27	30

**PREVALLING TORQUE TYPE
HEXAGON THIN NUTS WITH NONMETALLIC INSERT**

DIN 985



mm

Thread size	M5	M6	M8	M10	M12	M14	M16	M18	M20
Pitch	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5
h	5	6	8	10	12	14	16	18.5	20
m	3.2	4	5.5	6.5	8	9.5	10.5	13	14
e	8.79	11.05	14.38	18.9	21.1	24.49	26.75	29.56	32.95
s	8	10	13	17	19	22	24	27	30

HEX CONNECTING NUTS

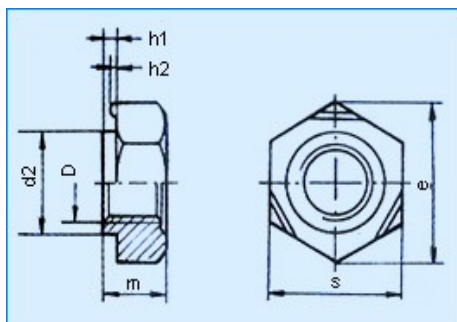
DIN 6334



Thread size	M6	M8	M10	M12	M16
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HEXAGON WELD NUTS

DIN 929

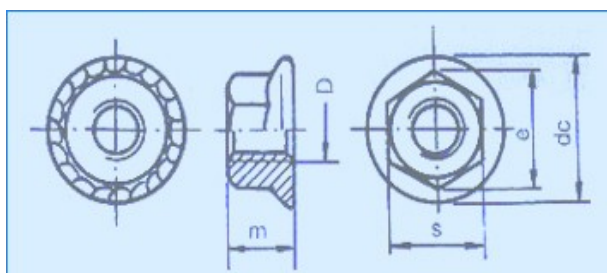


mm

Thread size	M4	M5	M6	M8	M10	M12	M16
m	3.5	4	5	6.5	8	10	13
e	9.83	10.95	12.02	15.38	18.74	20.91	26.51
s	9	10	11	14	17	19	24
h ₁	0.65	0.7	0.75	0.9	1.15	1.4	1.8
h ₂	0.35	0.4	0.4	0.5	0.65	0.8	1
d ₂	6	7	8	10.5	12.5	14.8	18.8

HEXAGON NUTS WITH FLANGE

DIN 6923

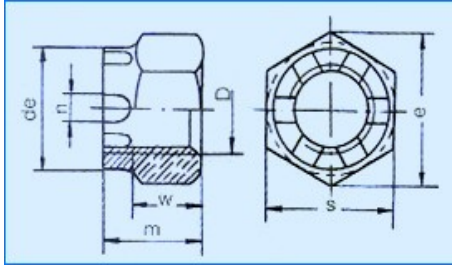


mm

Thread size	M5	M6	M8	M10	M12	M14	M16	M20
Pitch	0.8	1	1.25	1.5	1.75	2	2	2.5
m	5	6	8	10	12	14	16	20
e	8.79	11.05	14.38	16.64	20.03	23.36	26.75	32.95
s	8	10	13	15	18	21	24	30
dc	11.8	14.2	17.9	21.8	26	29.9	34.5	42.8

HEXAGON SLOTTED NUTS

DIN 935

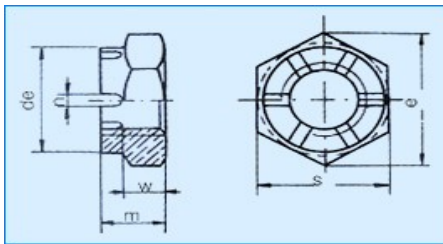


mm

Thread size	M6	M8	M10	M12	M16	M20	M24	M30	M36
m	7.5	9.5	12	15	19	22	27	33	38
e	11.05	14.38	17.77	20.03	26.75	32.95	39.55	50.85	60.79
s	10	13	16	18	24	30	36	46	55
n	2	2.5	2.8	3.5	4.5	4.5	5.5	7	7
w	5	6.5	8	10	13	16	19	24	29
de	-	-	-	16	22	28	34	42	50

HEXAGON THIN SLOTTED NUTS

DIN 937

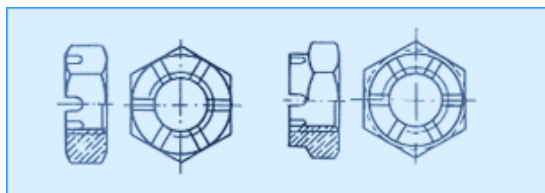


mm

Thread size	M6	M8	M10	M12	M16	M20	M24	M30	M36
m	6	8	9	10	12	13	15	18	20
e	11.05	14.38	18.9	20.1	26.75	32.95	35.55	50.85	60.79
s	10	13	17	19	24	30	36	46	55
n	2	2.5	2.8	3.5	4.5	4.5	5.5	7	7
w	3.5	4.5	5	6	7	8	9	11	13
de	-	-	-	17	22	28	33	41	49

HEXAGON THIN SLOTTED NUTS

DIN 979

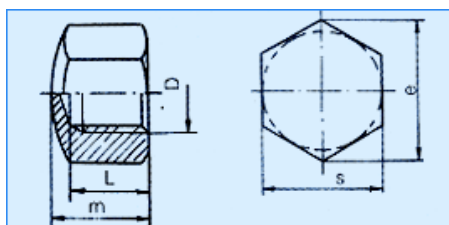


mm

Thread size	M6	M8	M10	M12	M16	M20	M24	M30	M36
m	5	6.5	8	10	13	16	19	24	29
e	11.05	14.38	17.77	20.03	26.75	32.95	39.55	50.85	60.79
s	10	13	16	18	24	30	36	46	55
n	2	2.5	2.8	3.5	4.5	4.5	5.5	7	7
w	2.5	3.5	4	5	7	10	11	15	20
de	-	-	-	16	22	28	34	42	50

HEXAGON CAP NUTS

DIN 917

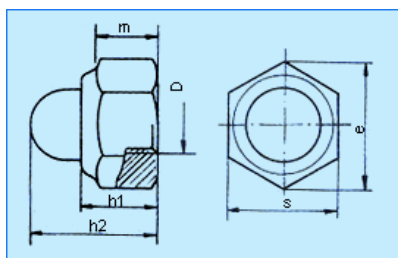


mm

Thread size	M4	M5	M6	M8	M10	M12	M16	M20	M24
m	5.5	7	9	12	14	16	20	25	30
e	7.66	8.79	11.05	14.38	17.77	20.03	26.75	32.95	39.55
s	7	8	10	13	16	18	24	30	36
L	4.16	4.96	6.71	9.21	10.65	13.15	16.65	20.58	23.58

HEXAGON DOMED CAP NUTS

DIN 986

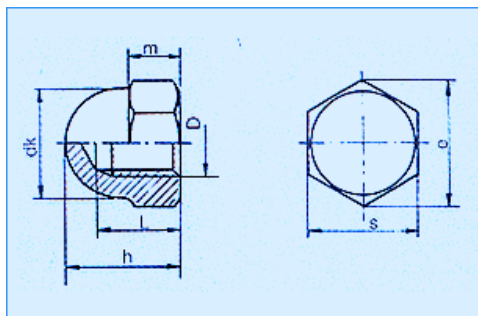


mm

Thread size	M4	M5	M6	M8	M10	M12	M16	M20
m	2.9	4.4	4.9	6.44	8.04	10.37	14.1	16.9
e	7.66	8.79	11.05	14.38	18.9	21.1	26.75	32.95
s	7	8	10	13	16	18	24	30
h ₁	5.6	6	7.5	8.9	10.5	13.5	16.5	21
h ₂	9.6	10.5	12	14	18.1	22.5	27.5	35

HEXAGON DOMED CAP NUTS

DIN 1587

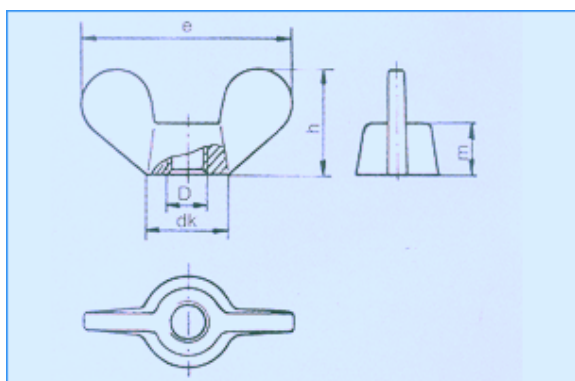


Thread size	M4	M5	M6	M8	M10	M12	M16	M20	M24
m	3.2	4	5	6.5	8	10	13	16	19
e	7.66	8.79	11.05	14.38	17.77	20.03	26.75	33.53	39.98
s	7	8	10	13	16	18	24	30	36
h	8	10	12	15	18	22	28	34	42
L	5.26	7.21	7.71	10.65	12.65	15.65	20.58	25.58	30.5
dk	6.5	7.5	9.5	12.5	15	17	23	28	34

mm

WING NUTS

DIN 315

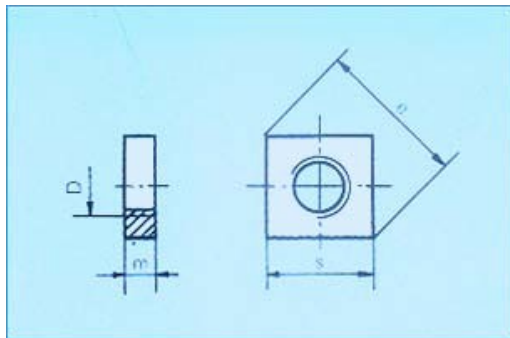


Thread size	M4	M5	M6	M8	M10	M12	M16	M20	M24
Pitch	0.7	0.8	1	1.25	1.15	1.75	2	2.5	3
dk	6	8	10	13	17	20	26	32	41
e	18	24	30	36	48	62	70	86	106
h	8.5	11	15	18	23	31	35	44	53.5
m	3.2	4	5	6.5	8	10	13	16	20

mm

SQUARE THIN NUTS

DIN 562

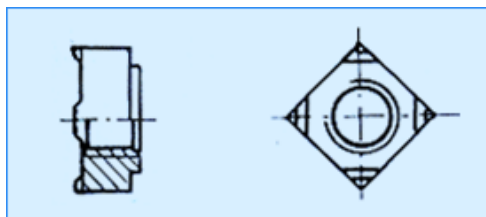


Thread size	M2	M3	M4	M5	M6	M8	M10	
Pitch	0.4	0.5	0.7	0.8	1	1.25	1.5	
m	1.2	1.8	2.2	2.7	3.2	4	5	
e	5	7	8.9	10.2	12.7	16.5	20.2	21.5
s	4	5.5	7	8	10	13	16	17

mm

SQUARE NUTS

DIN 928

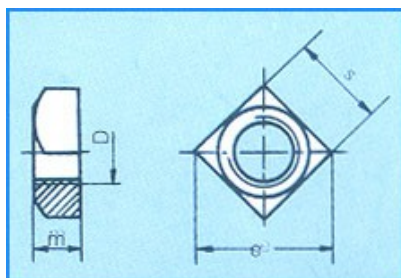


Thread size	M4	M5	M6	M8	M10	M12

mm

SQUARE NUTS

DIN 557

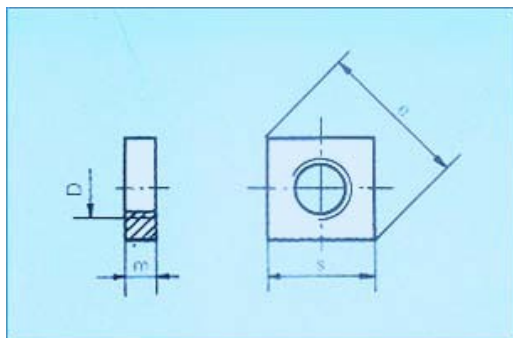


Thread size	M5	M6	M8	M10		M12		M16	M20
Pitch	0.8	1	1.25	1.5		1.75		2	2.5
m	4	5	6.5	8		10		13	16
e	11.3	14.1	18.4	22.6	24	25.4	26.9	32.9	42.4
s	8	10	13	16	17	18	19	24	30

mm

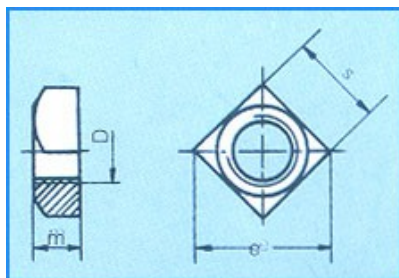
SQUARE NUTS

B.S.



Thread size	1/8	5/32	3/16	1/4
Thread per inch	40	32	24	20
m	2.13	2.74	3.12	3.38
e	7.9	10.1	11.6	15.9
s	5.59	7.16	8.23	11.30

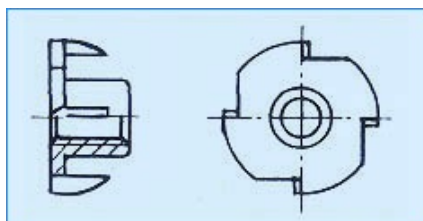
inches



Thread size	3/16	1/4	5/16	3/8	7/16	1/2
Thread per inch	24	20	18	16	14	12
m	4.24	5.08	6.35	7.92	9.53	11.10
e	11.6	15.9	18.9	21.5	25.4	29.4
s	8.23	11.3	13.34	15.24	18.03	20.83

inches

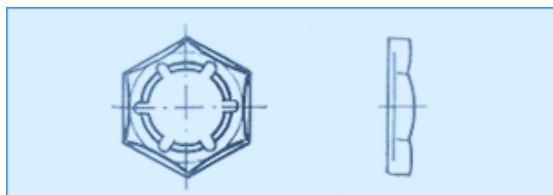
TEE NUTS WITH PRONGES



Thread size	M3	M4	M5	M6	M8	M10
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LOCK NUTS

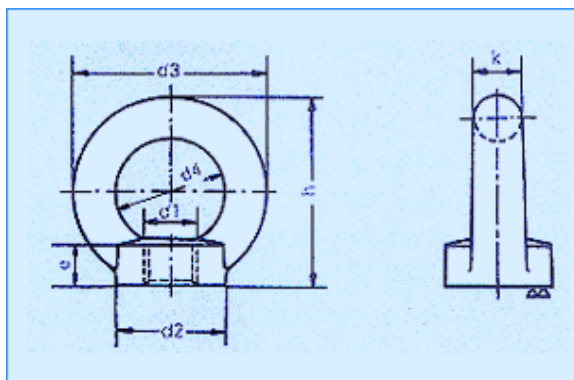
DIN 7967



For thread	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
For thread	M20	M22	M24	M27	M30	M33	M36	M39	M42	

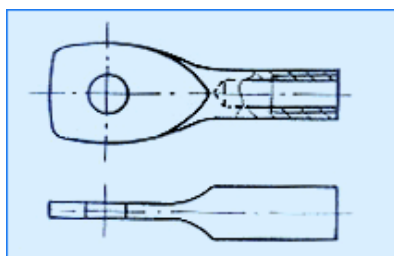
LOCK NUTS

DIN 582



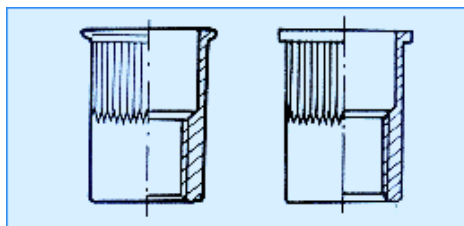
	mm							
d1	M8	M10	M12	M16	M20	M24	M30	M36
d2	20	25	30	35	40	50	65	75
d3	36	45	54	63	72	90	108	126
d4	20	25	30	35	40	50	60	70
e	8.5	10	11	13	16	20	25	30
h	36	45	53	62	71	90	109	128
k	8	10	12	14	16	20	24	28

EYE COUPLING NUTS



Thread size	M6
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ANCHOR NUTS

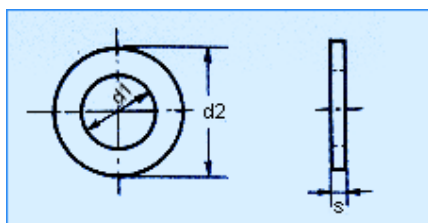


Thread size	M3	M4	M5	M6	M8	M10
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WASHERS

WASHERS (Grade A)

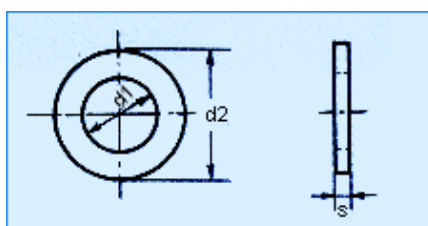
DIN 125



	mm										
d1	1.7	1.8	2.2	2.5	2.7	2.8	3.2	3.7	4.3	5.3	6.4
d2	4	4.5	5	6	6	7	7	8	9	10	12
s	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.8	1	1.6
d1	7.4	8.4	10.5	13	15	17	19	21	23	23	
d2	14	16	20	24	28	30	34	37	39	39	
s	1.6	1.6	2	2.5	2.5	3	3	3	3	3	

WASHERS (Grade C)

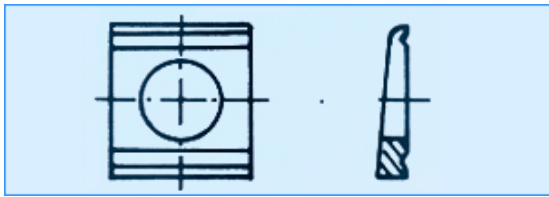
DIN 126



	mm										
d1	5.5	6.6	7.6	9	11	13.5	15.5	17.5	20	22	24
d2	10	12.5	14	16	20	24	28	30	34	37	39
s	1	1.6	1.6	1.6	2	2.5	2.5	3	3	3	3
d1	26	30	33	36	39	42	45	48	52	56	
d2	44	50	56	60	66	72	78	85	92	98	
s	4	4	4	5	5	6	7	7	8	8	

SQUARE BEVELED WASHERS

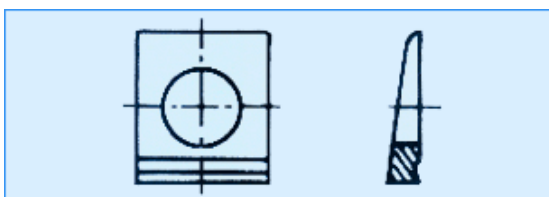
DIN 434



For screws M8 M10 M12 M16 M20 M22 M24 M27

SQUARE BEVELED WASHERS

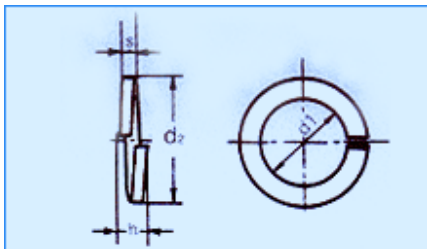
DIN 435



For screws M8 M10 M12 M16 M20 M22 M24 M27 M30

SPRING LOCK WASHERS

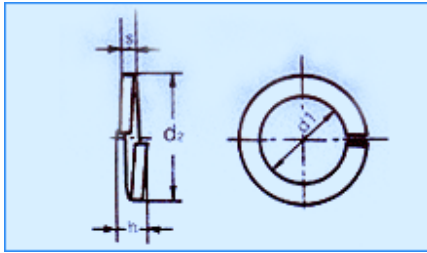
DIN 127



	mm									
Nominal size	3	3.5	4	5	6	7	8	10	12	
d1	3.4	3.9	4.4	5.4	6.5	7.5	8.5	10.7	12.7	
d2	6.2	6.7	7.6	9.2	11.8	12.8	14.8	18.1	21.1	
h	1.9	1.9	2.1	2.8	3.8	3.8	4.7	5.2	5.9	
s	0.8	0.8	0.9	1.2	1.6	1.6	2	2.2	2.5	
Nominal size	14	16	18	20	22	24	27	30		
d1	14.7	17	19	21.2	23.5	25.5	28.5	31.7		
d2	24.1	27.4	29.4	33.6	35.9	40	43	48.2		
h	7.1	8.3	8.3	9.4	9.4	11.8	11.8	14.2		
s	3	3.5	3.5	4	4	5	5	6		

SPRING LOCK WASHERS

B.S.

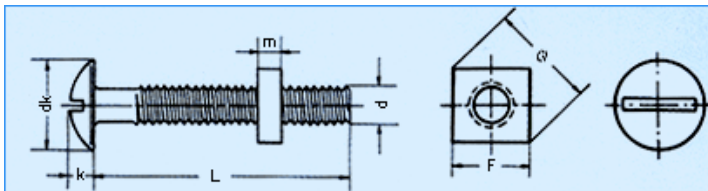


inches

Nominal	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	9/16
d1	0.133	0.164	0.196	0.266	0.328	0.391	0.453	0.516	0.601
b	0.053	0.061	0.075	0.108	0.130	0.142	0.161	0.173	0.189
h	0.067	0.083	0.098	0.142	0.165	0.189	0.220	0.244	0.283
s	0.033	0.041	0.049	0.071	0.083	0.094	0.110	0.122	0.142
Nominal	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2		
d1	0.656	0.781	0.906	1.031	1.156	1.281	1.531		
b	0.213	0.248	0.276	0.291	0.307	0.331	0.354		
h	0.303	0.354	0.394	0.433	0.472	0.504	0.551		
s	0.152	0.177	0.197	0.217	0.236	0.252	0.276		

MACHINE SCREWS

GALVANIZED ROOFING BOLTS & NUTS

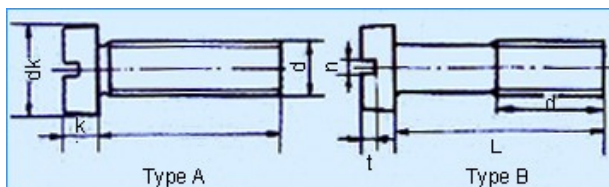


inches

Thread size	dk	k	m	F	G	L
3/6	10	2.3	3.048	8.128	11.684	3/16-3
1/4	13.3	3	0.302	11.176	16.002	1/2-5

SLOTTED CHEESE HEAD SCREWS

DIN 84

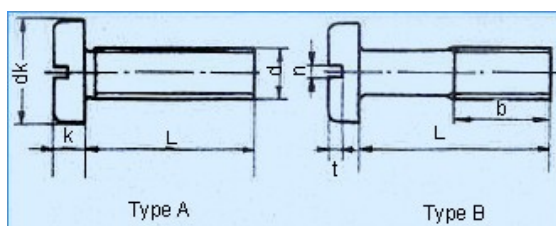


mm

Thread size	M3	M3.5	M4	M5	M6	M8	M10
dk	5.5	6	7	8.5	10	13	16
k	2	2.4	2.6	3.3	3.9	5	6
L	A	6-22	6-22	8-25	8-28	10-35	14-40
	B	25-30	25-35	28-40	30-50	40-60	45-80

SLOTTED PAN HEAD SCREWS

DIN 85

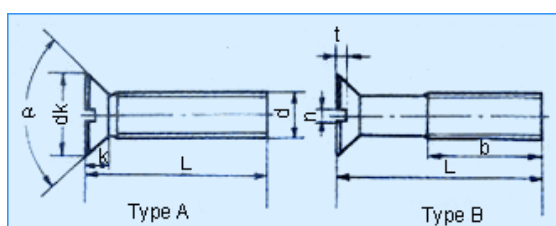


mm

Thread size	M3	M3.5	M4	M5	M6	M8	M10
dk	6	7	8	10	12	16	20
k	1.8	2.1	2.4	3	3.6	4.8	6
L	A	6-22	6-22	8-25	8-28	10-35	14-40
	B	25-30	25-35	28-40	30-50	40-60	45-80

SLOTTED COUNTERSUNK HEAD SCREWS

DIN 963

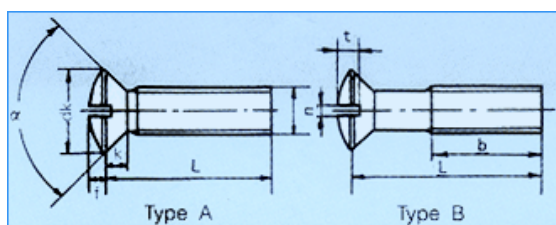


mm

Thread size	M3	M3.5	M4	M5	M6	M8	M10
dk	5.6	6.5	7.5	9.2	11	14.5	18
k	1.65	1.93	2.2	2.5	3	4	5
L	A	6-22	6-22	8-25	8-28	10-35	14-40
	B	25-30	25-35	28-40	30-50	40-60	45-80

SLOTTED RAISED COUNTERSUNK HEAD SCREWS

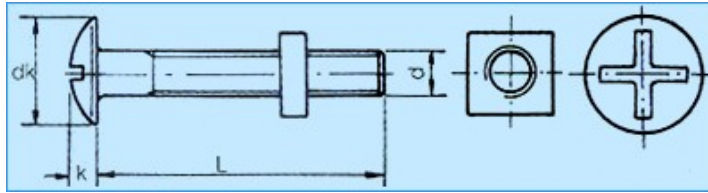
DIN 964



mm

Thread size	M3	M3.5	M4	M5	M6	M8	M10
dk	5.6	6.5	7.5	9.2	11	14.5	18
k	1.65	1.93	2.2	2.5	3	4	5
f	0.75	0.9	1	1.25	1.5	2	2.5
L	A	6-22	6-22	8-25	8-28	10-35	14-40
	B	25-30	25-35	28-40	30-50	40-60	45-80

ROOFING BOLTS & NUTS

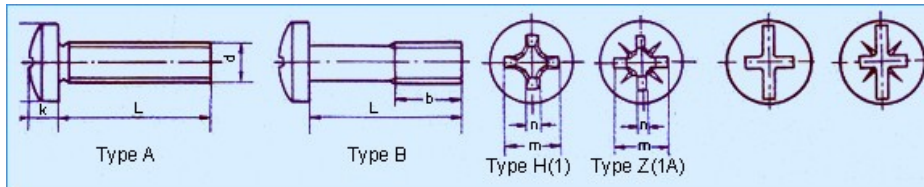


mm

Thread size	M4	M5	M6	M8
dk	9.4	11.6	13.95	18.9
k	1.90	2.65	3.33	3.80
L	10-50	10-80	12-120	16-150

CROSS RECESSED RAISED CHEESE HEAD SCREWS

DIN 7985

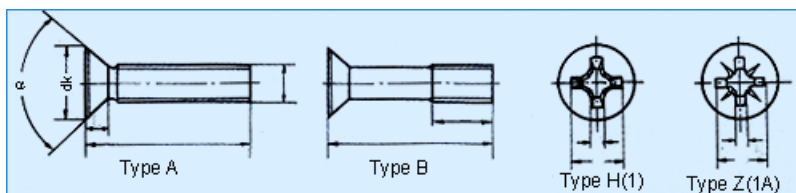


mm

Thread size	M3	M3.5	M4	M5	M6	M8	M10
dk	6	7	8	10	12	16	20
k	2.4	2.7	3.1	3.8	4.6	6	7.5
Cross recesses	(Type H)m	3.1	4.2	4.6	5.3	6.8	10.2
	(Type Z)m	3	4	4.3	5	6.7	9.9
	No	1	2	2	2	3	4
L	Type A	6-22	6-22	8-25	8-28	10-35	14-40
	Type B	25-30	25-35	28-40	30-50	40-60	45-80

CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS

DIN 965

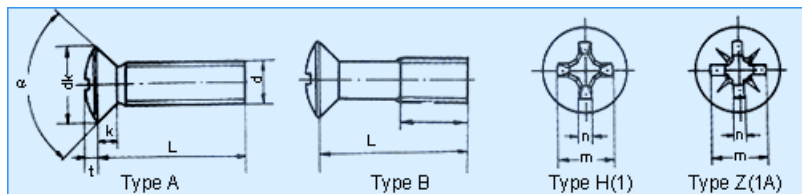


mm

Thread size	M3	M3.5	M4	M5	M6	M8	M10
dk	5.6	6.5	7.5	9.2	11	14.5	18
k	1.65	1.93	2.2	2.5	3	4	5
Cross	(Type H)m	2.9	3.9	4.4	4.6	6.6	9.6
	(Type Z)m	2.8	3.7	4	4.4	6.1	9.4
	No	1	2	2	2	3	4
L	Type A	6-22	6-22	8-25	8-28	10-35	14-40
	Type B	25-30	25-35	28-40	30-50	40-60	45-80

CROSS RECESSED RAISED COUNTERSUNK HEAD SCREWS

DIN 966

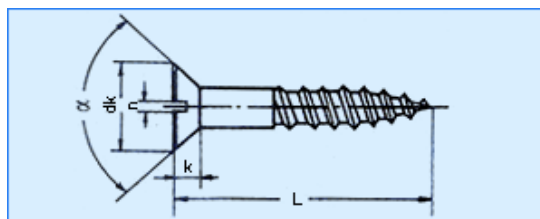


Thread size		M3	M3.5	M4	M5	M6	M8	M10
dk		5.6	6.5	7.5	9.2	11	14.5	18
k		1.65	1.93	2.2	2.5	3	4	5
f		0.75	0.9	1	1.25	1.5	2	2.5
Cross	(Type H)m	3.1	4.2	4.5	5.3	6.8	9	10
	(Type Z)m	3.1	4.3	4.6	5.3	7	8.8	9.9
	NO	1	2	2	2	3	4	4
L	Type A	6-22	6-22	8-25	8-28	10-35	14-40	18-45
	Type B	25-30	25-35	28-40	30-50	40-60	45-80	50-100

WOOD SCREWS

SLOTTED COUNTERSUNK HEAD WOOD SCREWS

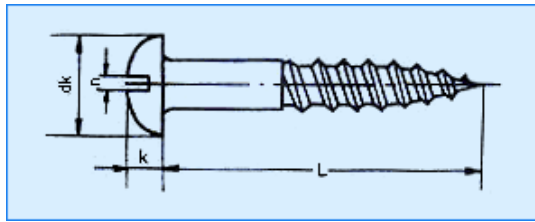
DIN 97



Thread size		2.5	3	3.5	4	4.5	5	5.5	6
dk		4.7	5.6	6.5	7.5	8.3	9.2	10.2	11
k		1.5	1.65	1.93	2.2	2.35	2.5	2.75	3
n		0.6	0.8	0.8	1	1	1.2	1.2	1.6
L		8-25	10-40	12-40	16-50	20-60	20-100	30-100	40-100

SLOTTED ROUND HEAD WOOD SCREWS

DIN 96

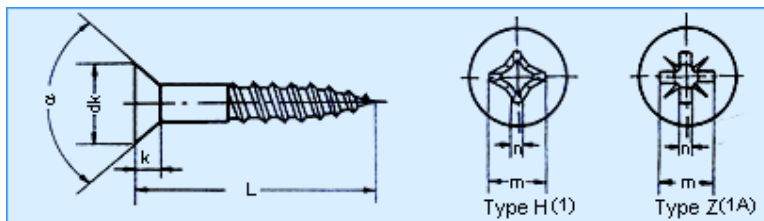


Thread size	2.5	3	3.5	4	4.5	5	5.5	6
dk	5	6	7	8	9	10	11	12
K	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2
n	0.6	0.8	0.8	1	1	1.2	1.2	1.6
L	8-25	10-40	12-40	16-50	20-60	20-100	30-100	40-100

mm

FLAT COUNTERSUNK HEAD WOOD SCREWS

DIN 7997

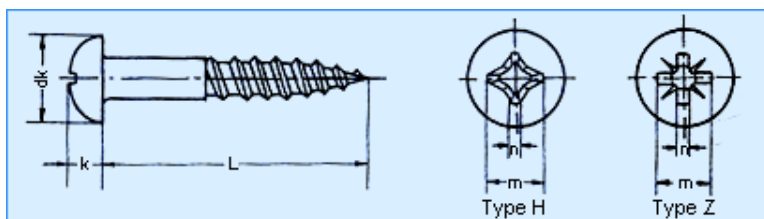


Thread size	2.5	3	3.5	4	4.5	5	5.5	6
dk	4.7	5.6	6.5	7.5	8.3	9.2	10.2	11
k	1.5	1.65	1.93	2.2	2.35	2.5	2.75	3
Cross recess	(Type H) m	2.7	2.9	3.9	4.4	4.6	4.8	6.2
	(Type Z) m	2.8	3	4	4.2	4.4	5	6.1
	No	1	1	2	2	2	3	3
L	10-25	10-40	12-45	16-50	20-60	20-100	30-100	40-100

mm

CROSS RECESSED ROUND HEAD WOOD SCREWS

DIN 7996

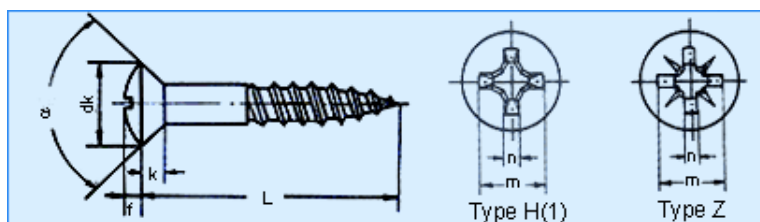


Thread size	2.5	3	3.5	4	4.5	5	5.5	6
dk	5	6	7	8	9	10	11	12
k	1.7	2.1	2.35	2.8	3.1	3.5	3.8	4.2
Cross	(Type H) m	2.3	2.7	3.7	4.1	4.4	4.8	6.2
	(Type Z) m	2.4	2.9	3.9	4.1	4.3	4.7	6.2
	No	1	1	2	2	2	2	3
L	10-25	10-40	12-40	16-50	20-60	20-100	30-100	40-100

mm

CROSS RECESSED RAISED COUNTERSUNK HEAD WOOD SCREWS

DIN 7995

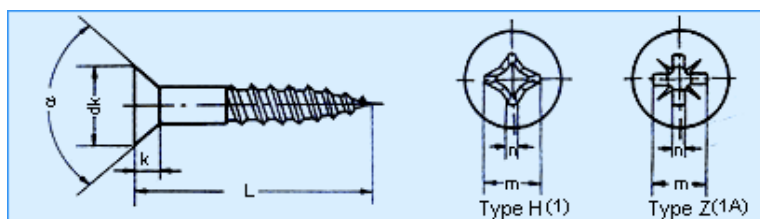


mm

Thread size	2.5	3	3.5	4	4.5	5	5.5	6
dk	4.7	5.6	6.5	7.5	8.3	9.2	10.2	11
f	0.6	0.75	0.9	1	1.1	1.25	1.4	1.5
k	1.5	1.65	1.93	2.2	2.35	2.5	2.75	3
Cross	(Type H) m	2.7	3.1	4.2	4.5	5	5.3	7.1
	(Type Z) m	2.8	3.1	4.3	4.6	5.1	5.3	6.6
No	1	1	2	2	2	3	3	3
L	10-25	10-40	12-40	16-50	20-60	20-100	30-100	40-100

PHILLIPS OVAL HEAD WOOD SCREWS

B.S. 1210

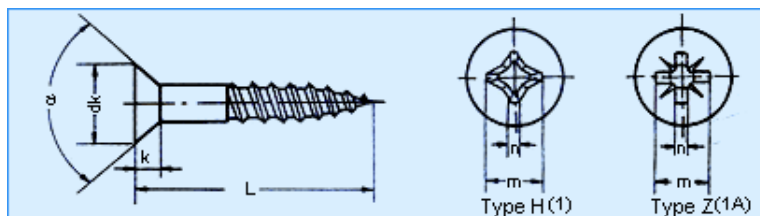


inches

Thread size	4	5	6	7	8	9	10
dk	5.21	5.90	6.58	7.24	7.93	8.59	9.28
f	0.66	0.76	0.81	0.91	1.02	1.17	1.19
k	1.62	1.85	2.08	2.31	2.54	2.76	2.97
Cross recess	(Type Z) m	3.12	3.81	4.32	4.65	5.00	5.28
	NO	1	1	2	2	2	2
L	1/2-1	1/2-1 1/4	1/2-2	3/4-2	3/4-3	3/4-3	3/4-3 1/2

CROSS RECESSED COUNTERSUNK HEAD WOOD SCREWS

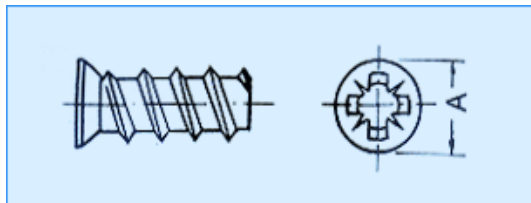
B.S. 1210



inches

Thread size	3	4	5	6	7	8	9	10	12	14	16
dk	4.55	5.21	5.90	6.56	7.24	7.93	8.59	9.28	10.62	11.99	13.31
k	1.39	1.62	1.88	2.08	2.31	2.54	2.76	2.97	3.42	3.88	4.31
(Type Z) m	2.51	2.74	3.50	4.22	4.22	4.60	4.60	4.98	6.35	6.60	7.49
Cross recess	No	1	1	2	2	2	2	2	3	3	3
	L	1/2-5/8	1/2-2	1/2-1 1/4	1/2-2	3/4-2	3/4-3	3/4-3	3/4-3 1/2	1-5	1 1/2-5

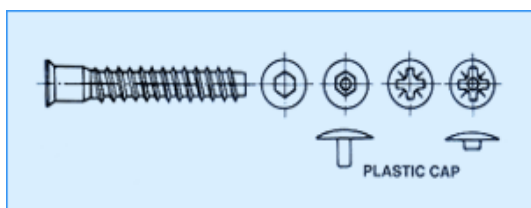
EURO SCREW



mm

Nominal size	6.3	6.3
Length	9-13	9-13
A	7	8

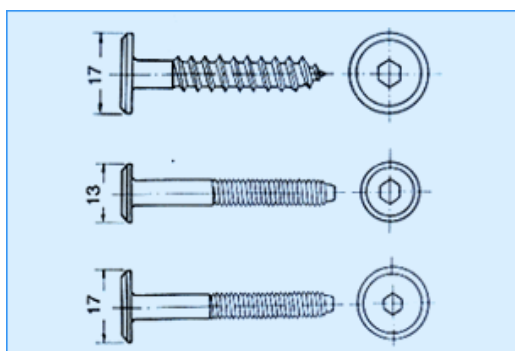
CONNECTING SCREW FLAT COUNTERSUNK HEAD



mm

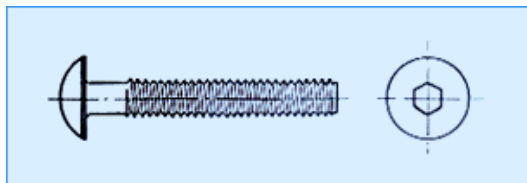
Nominal size	5	7	6.3
Length	40-60	40-80	40-80

JOINT CONNECTOR SCREW FLAT HEAD



Nominal size	M6-1.0	1/4-20	6.3
Length	20-120	20-120	20-120

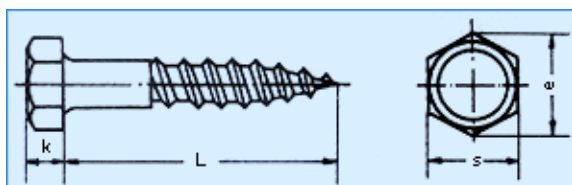
JOINT CONNECTOR SCREW ROUND HEAD



Nominal size	M6-1.0	1/4-20
Length	20-120	20-120

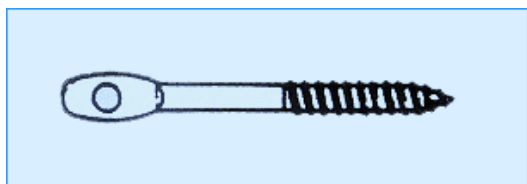
HEXAGON HEAD WOOD SCREWS

DIN 571



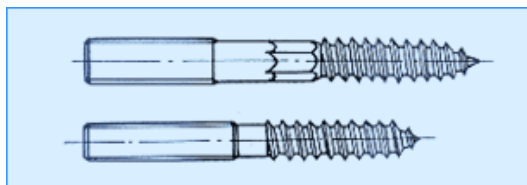
	mm							
Thread size	4	5	6	7	8	10	12	16
k	2.8	3.5	4	5	5.5	7	8	10
e	7.50	8.63	10.89	13.07	14.2	18.72	20.88	26.17
s	7	8	10	12	13	17	19	24
L	16-40	16-50	25-150	30-150	30-200	30-300	35-400	50-420

ACOUSTICALL EYELAGS



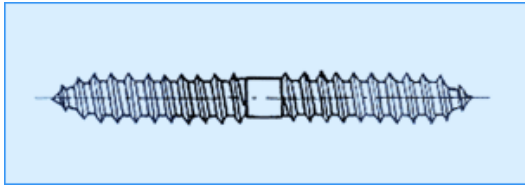
	inches		
Nominal size	1/4 x 3"	1/4 x 4"	1/4 x 5"

METAL WOOD DOWEL SCREW



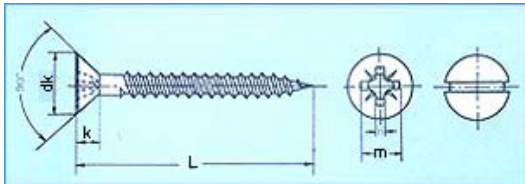
	mm
Nominal size	M8-12
Length	50-200

WOOD-WOOD DOWEL SCREW



Nominal size	3.5-6.3
Length	25-80

POZIDRIVE TWINFAST WOOD SCREWS



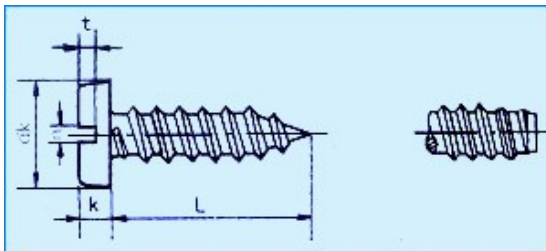
Thread size		4	5	6	7	8	10	12
dk		5.48	6.19	6.90	7.62	8.33	9.75	11.17
k		1.66	1.90	2.13	2.36	2.53	3.01	3.44
n		0.86	1.06	1.06	1.06	1.26	1.26	1.66
cross recess	No	1	2	2	2	2	2	3
	m	2.74	3.50	4.22	4.22	4.60	4.98	6.35
L(in)		1/4-1	5/16-11/4	7/16-2	1/2-21/4	5/8-3	3/4-4	1-4

mm

TAPPING AND CHIPBOARD

PAN HEAD TAPPING SCREWS WITH SLOT

DIN 7971

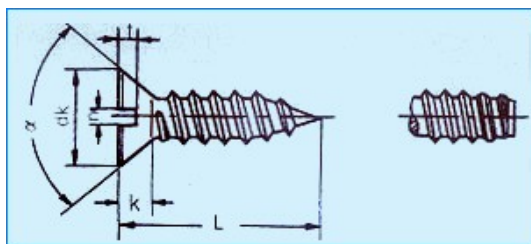


Thread size	2.9	3.5	3.9	4.2	4.8	5.5	6.3
dk	5.6	6.9	7.5	8.2	9.5	10.8	12.5
k	1.5	1.85	2	2.15	2.5	2.85	3.2
m	0.8	1	1	1.2	1.2	1.6	1.6
L(mm)	6.5-25	6.5-50	9.5-50	9.5-63	9.5-63	13-75	13-75

mm

COUNTERSUNK HEAD TAPPING SCREWS WITH SLOT

DIN 7972

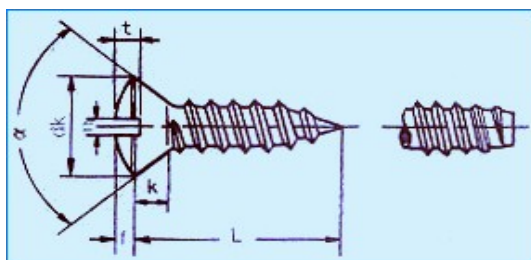


Thread size	2.9	3.5	3.9	4.2	4.8	5.5	6.3
dk	5.5	6.8	7.5	8.1	9.5	10.8	12.4
k	1.7	2.1	2.3	2.5	3	3.4	3.8
n	0.8	1	1	1.2	1.2	1.6	1.6
L	6.5-25	6.5-50	9.5-50	9.5-63	9.5-63	13-75	13-75

mm

RAISED COUNTERSUNK HEAD TAPPING SCREWS WITH SLOT

DIN 7973

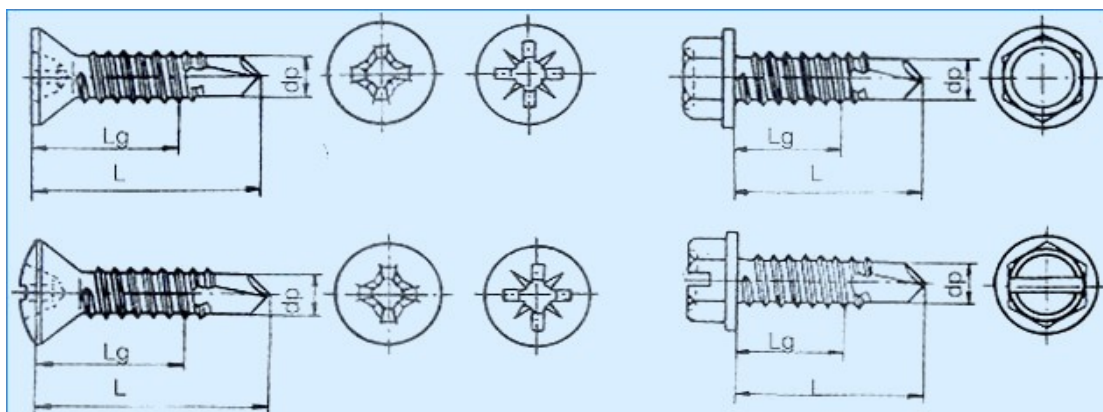


Thread size	2.9	3.5	3.9	4.2	4.8	5.5	6.3
dk	5.5	6.8	7.5	8.1	9.5	10.8	12.5
f	0.9	1.2	1.3	1.4	1.5	1.7	2
k	1.7	2.1	2.3	2.5	3	3.4	3.8
n	0.8	1	1	1.2	1.2	1.6	1.6
L	6.5-25	6.5-50	9.5-50	9.5-63	9.5-63	13-75	13-75

mm

SELF-DRILLING TAPPING SCREWS

DIN 7504

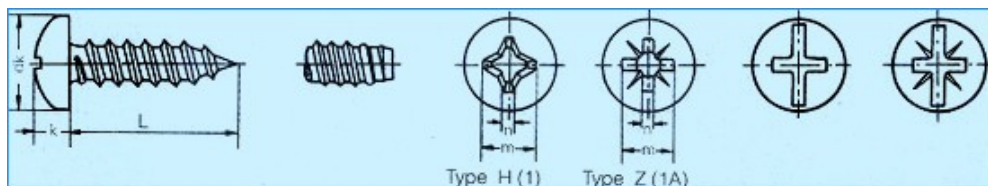


Thread size	ST2.9	ST3.5	ST4.2	ST4.8	ST5.5	ST6.3
dp	2.3	2.8	3.6	4.1	4.8	5.8
Lg	12.5	18.1	29.0	39.5	8-39	7-38
L	6.5-25	6.5-50	9.5-50	9.5-63	13-75	13-75

mm

CROSS RECESSED PAN HEAD TAPPING SCREWS

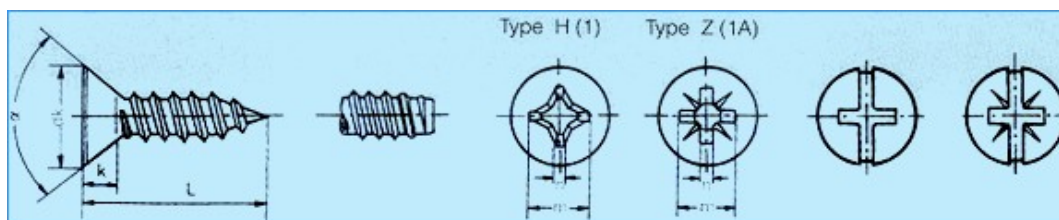
DIN 7981



		mm						
Thread size		2.9	3.5	3.9	4.2	4.8	5.5	6.3
Pitch		5.6	6.9	7.5	8.2	9.5	10.8	12.5
k		2.2	2.6	2.8	3.05	1.55	3.95	4.55
Cross recess	(Type H)m	3	4.2	4.4	4.6	5	6.5	7.1
	(Type Z)m	2.9	3.9	4.1	4.3	4.7	6.2	6.7
	No	1	1	2	2	2	3	3
L		6.5-25	6.5-50	9.5-50	9.5-63	9.5-63	13-75	13-75

CROSS RECESSED COUNTERSUNK HEAD TAPPING SCREWS

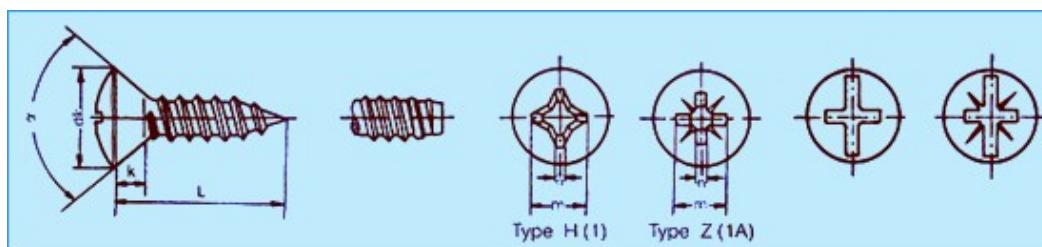
DIN 7982



		mm						
Thread size		2.9	3.5	3.9	4.2	4.8	5.5	6.3
dk		5.5	6.8	7.5	8.1	9.5	10.8	12.4
k		1.7	2.1	2.3	2.5	3	3.4	3.8
Cross recess	(Type H) m	3	4.2	4.6	4.7	5.1	5.8	7.1
	(Type Z) m	2.8	4	4.2	4.4	5	6.3	7
	No	1	1	2	2	2	3	3
L		6.5-25	6.5-50	9.5-50	9.5-63	9.5-63	13-75	13-75

CROSS RECESSED RAISED COUNTERSUNK HEAD TAPPING SCREWS

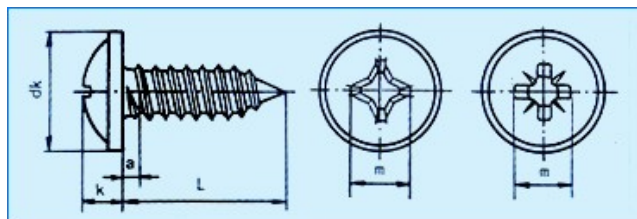
DIN 7983



		mm						
Thread size		2.9	3.5	3.9	4.2	4.8	5.5	6.3
dk		5.5	6.8	7.5	8.1	9.5	10.8	12.4
f		0.9	1.2	1.3	1.4	1.5	1.7	2
k		1.7	2.1	2.3	2.5	3	3.4	3.8
Cross	(Type H) m	3.4	4.6	4.7	4.9	5.4	7	7.4
	(Type Z) m	3.1	4.3	4.4	4.6	5.1	6.6	7.1
	No	1	1	2	2	2	3	3
L		6.5-25	6.5-50	9.5-50	9.5-63	9.5-63	13-75	13-75

CROSS RECESSED PAN HEAD TAPPING SCREWS WITH COLLAR

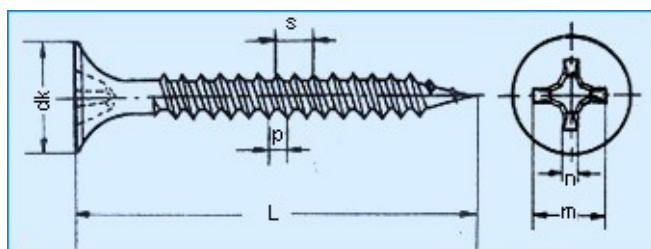
DIN 968



mm

Thread size	ST2.9	ST3.5	ST4.2	ST4.8	ST5.5	ST6.3
dk	7.50	9.00	10.0	11.5	13.0	14.5
k	2.35	2.60	3.05	3.55	3.80	4.55
Cross	(Type H) m	3.00	4.20	4.60	5.00	6.50
	(Type Z) m	2.90	3.90	4.30	4.70	6.20
No	1	2	2	2	3	3
L	6.5-19	9.5-25	9.5-32	9.5-50	13-50	13-50

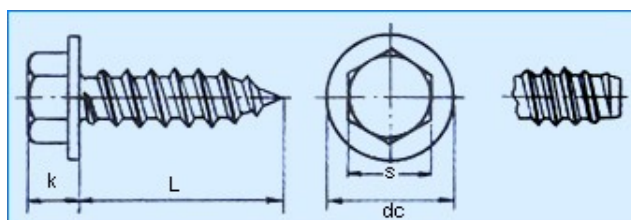
DRYWALL SCREWS TYPE S PHILLIPS RECESSED BUGLE HEAD TWINFAST



Thread size	Threads/in	dk	Cross recess		L(in)
			No	m	
6	18	8.4	2	4.9	3/4-2 1/2
7	16	8.4	2	4.9	1-2 1/2
8	15	8.4	2	4.9	2-4

HEXAGON WASHER HEAD TAPPING SCREWS

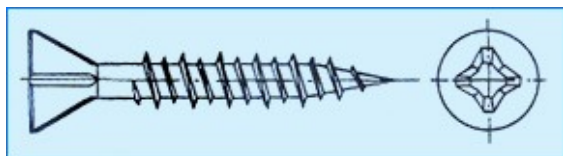
DIN 6928



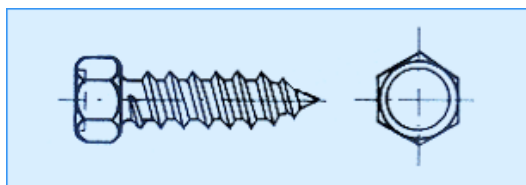
mm

Thread size	ST2.9	ST3.5	ST4.2	ST4.8	ST6.3	ST8.0
dc	6.30	8.30	8.80	10.5	13.5	18.0
k	2.80	3.40	4.0	4.30	5.90	7.00
s	4.00	5.50	7.00	8.00	10.0	13.0
L	6.5-25	6.5-50	9.5-50	9.5-63	13-75	13-75

FERMACELL SCREWS WITH RIBS UNDER THE HEAD

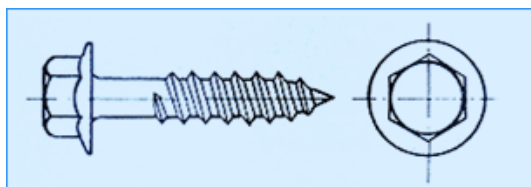


HEX HEAD TAPPING SCREWS



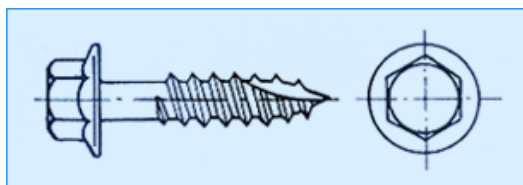
Nominal size	4.2	4.8	5.5	6.3	8#	10#	12#	1/4
Length	9.5-50	13-75	16-100	16-120	3/8-2	1/2-3	3/4-4	3/4-5

HEX FLANGE HEAD SELF-TAPPING SCREWS



Nominal	5.5	6.3	12#	14#
Length	16-120	16-180	16-120	16-180

HEX FLANGE HEAD TYPE 17 SCREWS

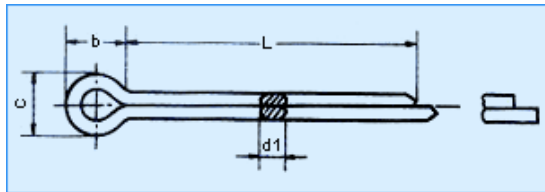


Nominal	12#	1/4	5.5	6.3
Length	1-5	1 1/2-5	25-120	30-120

PINS, RIVETS AND ANCHORS

SPLIT PINS

DIN 94

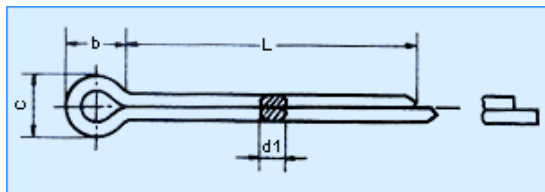


Nominal	2	2.5	3.2	4	5	6.3	8	10
d1	1.8	2.3	2.9	3.7	4.6	5.9	7.5	9.5
b	4	5	6.4	8	10	12.6	16	20
c	3.2	4	5.1	6.5	8	10.3	13.1	16.6
L	10-40	12-50	18-80	20-125	20-125	28-140	36-140	56-140

mm

SPLIT PINS

ISO 1234

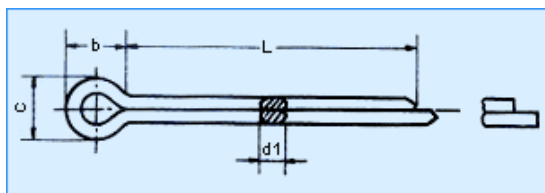


Nominal	1	1.2	1.6	2	2.5	3.2	4	5	6.3	8	10
d1	0.8	0.9	1.3	1.7	2.1	2.7	3.5	4.4	5.7	7.3	9.3
b	3	3	3.2	4	5	6.4	8	10	12.6	16	20
c	1.8	2	2.8	3.6	4.6	5.8	7.4	9.2	11.8	15	19
L	6-20	8-20	8-20	10-20	12-50	18-80	20-80	20-80	28-80	36-80	56-80

mm

COTTER PINS

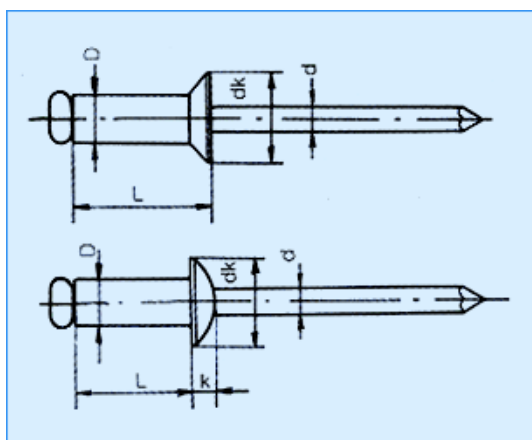
B.S.



Nominal	3/32	7/64	1/8	9/64	5/32	11/64	3/16	7/32	1/4	9/32	5/16	3/8
d1	2.11	2.57	2.70	3.36	3.51	4.09	4.40	5.29	5.69	6.86	6.29	9.10
b	4.83	5.59	6.35	7.11	7.87	8.64	9.65	11.18	12.7	14.22	15.75	19.05
c	4.72	5.48	6.29	7.11	7.87	8.68	9.44	11.07	12.64	14.22	15.97	18.94
L(in)	3/8-7/8	3/8-2	1/2-3	1/2-3	5/8-3	5/8-3	5/8-3	3/4-3	3/4-3	1 1/2-3	1 1/2-3	1 1/2-3

inches

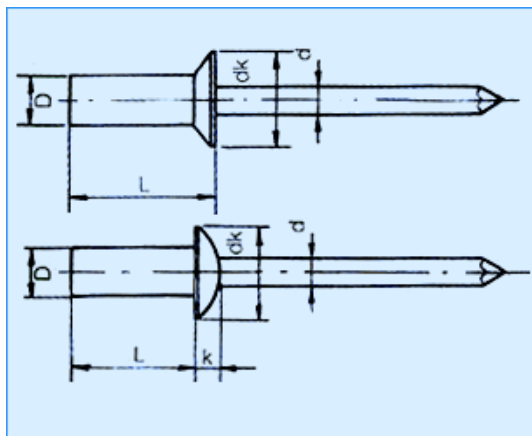
BLIND RIVET



Nominal	3	3.2	4	4.8	5
L	4.8-16	4.8-18	4.8-22	6.4-30	6.4-30
dk	6	6	8	9.5	9.5
k	1	1	1.4	1.5	1.5
d	1.8	1.8	2.2	2.6	2.8

mm

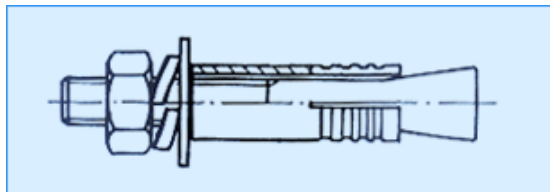
SEALED TYPE ALUMINIUM BLIND RIVET



Nominal	3.2	4	4.8	5
L	5-18	5-22	8-30	8-30
dk	6	8	9.5	9.5
k	1	1.4	1.5	1.5
d	1.7	2.2	2.64	2.8

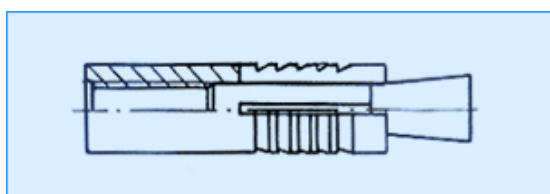
mm

BOLT ANCHORS



Thread size	M6	M8	M10	M12	M16	M20	M22	M24
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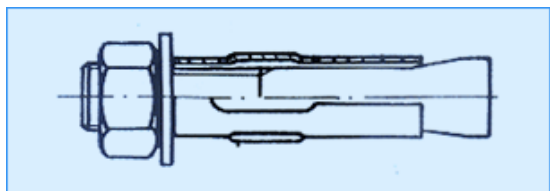
CUT ANCHORS



Thread size	M6	M8	M10	M12	M16	M20	M22
Length	30	35	40	52	63	83	93

mm

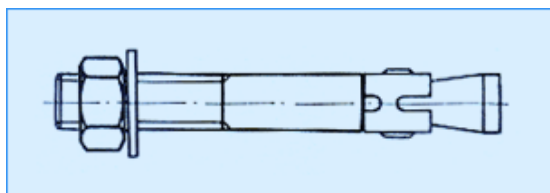
SLEEVE ANCHORS



Nominal size	6.5	8	10	12	16	20
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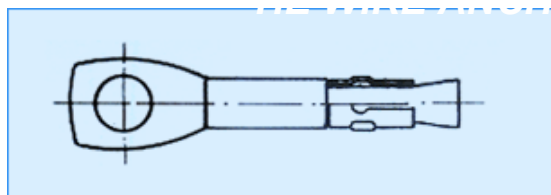
mm

WEDGE ANCHORS



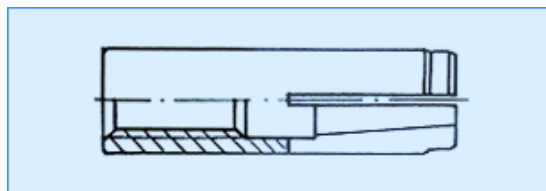
Thread size	M6	M8	M10	M12	M16	M20
Length	49-95	50-220	65-250	75-250	90-250	90-300

mm



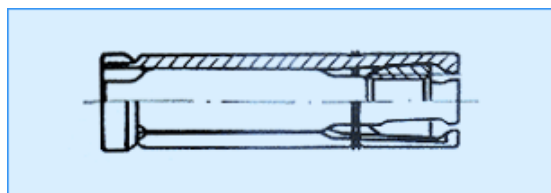
Nominal size	mm	
	6	6
L	60	67

DROP IN ANCHORS



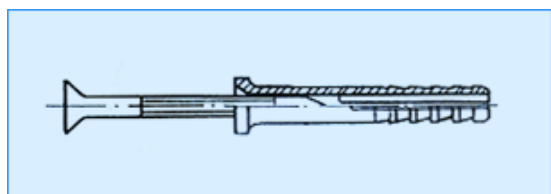
Thread size	mm					
	M6	M8	M10	M12	M16	M20
Length	25	30	40	50	65	80

HEAVY-DUTY SHELLANCHOR



Thread size	mm					
	M6	M8	M10	M12	M16	M20
Length	45	55	60	75	115	130

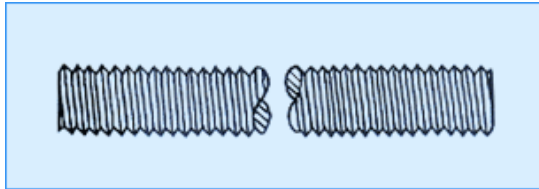
NYLON HAMMER FIXING



Nominal size	mm		
	5	6	8
Length	20-50	35-80	60-135

THREADED RODS AND OTHERS

THREADED ROD



Thread size	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
LENGTH	1000mm-40000mm									

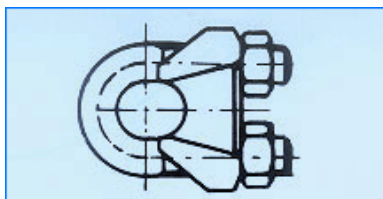
mm

Thread size	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
LENGTH	3feet-12feet									

inches

WIRE ROPE CLAMPS

DIN 741

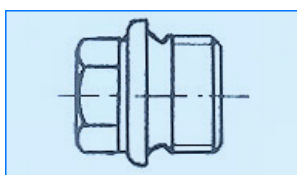


for rope dia	3	5	6.5	8	10	11	13	14	16
Thread size	M4	M5	M5	M6	M8	M8	M10	M10	M12

mm

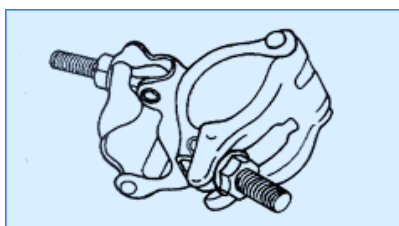
HEX HEAD PIPE PLUGS

DIN 910

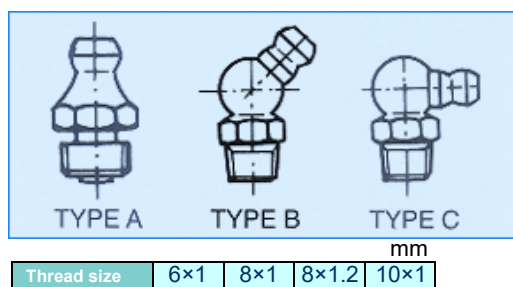


Thread size	M10	M12	M14	M16	M18	M20	M22	M24	M26	M30	M36
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STEEL PIPE SCAFFOLD



GREASE FITTING



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