


METRIC FASTENERS


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HEX NUTS


SIZE	PART NUMBER
M2-0.6	0018011799
M3-0.5	0018011800
M4-0.7	0018011810
M5-0.8	0018011820
M6-1.0	0018011830
M7-1.0	0018011840
M8-1.25	0018011850
M8-1.0	0018011860
M10-1.5	0018011870
M10-1.0	0018011880
M10-1.25*	0018011890
M12-1.75	0018011900
M12-1.25	0018011910
M12-1.5	0018011920
M14-1.5	0018011930
M14-2.0	0018011940
M16-2.0	0018011950
M16-1.5	0018011960
M18-2.5	0018011970
M18-1.5	0018011980
M20-2.5	0018011990
M20-1.5	0018012000
M24-3.0	0018012010
M24-2.0	0018012020
M24-1.5	0018012030

MACHINE SCREW NUTS



SIZE	PART NUMBER
M2-0.6	0018012480
M3-0.5	0018012490
M4-0.7	0018012500
M5-0.8	0018012510
M6-1.0	0018012520
M8-1.25	0018012530

NYLON LOCK NUT




COARSE THREAD

SIZE	PART NUMBER
M2 x 0.4	0018N00001
M2.5 x 0.45	0018N00002
M3 x 0.5	0018N00003
M3.5 x 0.6	0018N00004
M4 x 0.7	0018N00005
M5 x 0.8	0018N00006
M6 x 1.0	0018N00007
M8 x 1.25	0018N00008
M10 x 1.5	0018N00009
M12 x 1.75	0018N00010
M14 x 2.0	0018N00011
M16 x 2.0	0018N00012
M18 x 2.5	0018N00013
M20 x 2.5	0018N00014
M22 x 2.5	0018N00015
M24 x 3.0	0018N00016
M27 x 3.0	0018N00017
M30 x 3.5	0018N00018
M33 x 3.55	0018N00019
M36 x 4.0	0018N00020

FINE THREAD

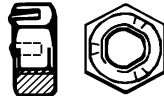
SIZE	PART NUMBER
M8 x 1.0	0018N00040
M10 x 1.0	0018N00041
M10 x 1.25	0018N00042
M12 x 1.5	0018N00043
M12 x 1.25	0018N00044
M14 x 1.5	0018N00045
M16 x 1.5	0018N00046
M20 x 1.5	0018N00047
M24 x 3.0	0018N00048

WING NUTS



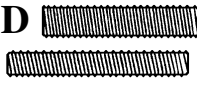
SIZE	PART NUMBER
M3	0018013003
M4	0018013004
M5	0018013005
M6	0018013006
M8	0018013008
M10	0018013010
M12	0018013012

PREVAILING TORQUE LOCK NUT



SIZE	PART NUMBER
M4 x 0.7	0018N01000
M5 x 0.8	0018N01001
M6 x 1.0	0018N01002
M8 x 1.25	0018N01006
M10 x 1.5	0018N01004
M14 x 2.0	0018N01005
M16 x 2.0	0018N01016


THREADED ROD



1 METER LONG

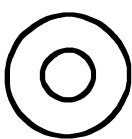
SIZE	PART NUMBER
M3-0.5	0018018130
M4-0.7	0018018140
M5-0.8	0018018150
M6-1.0	0018018160
M8-1.25	0018018170
M10-1.5	0018018180
M12-1.75	0018018190
M14-2.0	0018018200
M16-2.0	0018018210
M20-2.5	0018018220
M24-3.0	0018018230

KEYSTOCK



1 METER LONG

SIZE	PART NUMBER
3mm x3mm	0018018300
4mm x4mm	0018018310
5mm x5mm	0018018320
6mm x6mm	0018018330
7mm x7mm	0018018340
8mm x8mm	0018018350
10mm x10mm	0018018360
12mm x12mm	0018018370
14mm x14mm	0018018380
16mm x16mm	0018018390
20mm x20mm	0018018400



FLAT WASHERS

SIZE	PART NUMBER
M2.5	0018013299
M3	0018013300
M4	0018013310
M5	0018013320
M6	0018013330
M7	0018013340
M8	0018013350
M10	0018013360
M12	0018013370
M14	0018013380
M16	0018013390
M20	0018013410
M24	0018013420
M30	0018013430



SPLIT LOCK WASHERS ZINC PLATED

SIZE	PART NUMBER
M2	0018013450
M3	0018013460
M4	0018013470
M5	0018013480
M6	0018013490
M7	0018013500
M8	0018013510
M10	0018013520
M12	0018013530
M14	0018013540
M14.5	0018013545
M16	0018013550
M18	0018013560
M20	0018013570
M24	0018013580

FENDER WASHERS

SIZE	PART NUMBER
M5	0018100005
M6	0018100006
M8	0018100008
M10	0018100010
M12	0018100012
M20	0018100020

HI-COLLAR WASHERS

SIZE	PART NUMBER
M5	0018013703
M6	0018013704
M8	0018013706
M10	0018013708
M12	0018013709
M16	0018013711
M20	0018013715

EYE BOLTS

SIZE	PART NUMBER
M12	0018050003
M16	0018050004
M20	0018050005
M24	0018050006

"E" CLIPS

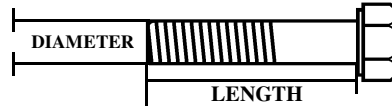
SIZE	PART NUMBER
M4	0018060004
M5	0018060005
M7	0018060007
M8	0018060008

**METRIC
0-1 OIL HARDENED
DRILL RODS ARE
LOCATED IN
SECTION 3 PAGE 5**

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HEX HEAD CAP SCREWS COARSE PLAIN

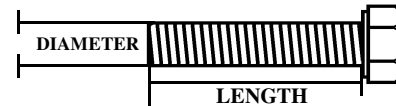


M6 DIA.		M12 DIA.		M20 DIA.		M30 DIA.		10.9 PLATED* HEX HEAD CAP SCREWS																			
LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	M6 DIA.		M12 DIA.																	
								LTH	PART NUMBER	LTH	PART NUMBER																
12mm	0018007000	20mm	0018007050	40mm	0018007110	60mm	0018007180	20mm	0018001000	25mm	0018001070																
14mm	0018007002	25mm	0018007051	45mm	0018007111	65mm	0018007181	25mm	0018001002	30mm	0018001072																
16mm	0018007003	30mm	0018007052	50mm	0018007112	70mm	0018007182	30mm	0018001004	35mm	0018001074																
20mm	0018007004	35mm	0018007053	55mm	0018007113	80mm	0018007183	35mm	0018001006	40mm	0018001076																
25mm	0018007005	40mm	0018007054	60mm	0018007114	90mm	0018007184	40mm	0018001008	50mm	0018001078																
30mm	0018007006	45mm	0018007055	70mm	0018007115	100mm	0018007185	50mm	0018001010	60mm	0018001080																
35mm	0018007007	50mm	0018007056	80mm	0018007116	110mm	0018007186	M8 DIA. LTH PART NUMBER 20mm 0018001020 25mm 0018001022 30mm 0018001024 35mm 0018001026 40mm 0018001030 50mm 0018001034 60mm 0018001036																			
40mm	0018007008	55mm	0018007057	90mm	0018007117	120mm	0018007187					M10 DIA. LTH PART NUMBER 20mm 0018001040 25mm 0018001042 30mm 0018001044 35mm 0018001046 40mm 0018001048 50mm 0018001050 60mm 0018001052 70mm 0018001054 80mm 0018001056															
50mm	0018007009	60mm	0018007058	100mm	0018007118	130mm	0018007188							M12 DIA. LTH PART NUMBER 40mm 0018001100 50mm 0018001102 60mm 0018001104 70mm 0018001106 80mm 0018001108 100mm 0018001110													
60mm	0018007010	65mm	0018007059	110mm	0018007119	140mm	0018007189									M16 DIA. LTH PART NUMBER 40mm 0018001100 50mm 0018001102 60mm 0018001104 70mm 0018001106 80mm 0018001108 100mm 0018001110											
M8 DIA. LNG PART NUMBER 14mm 0018007012 16mm 0018007013 20mm 0018007014 25mm 0018007015 30mm 0018007016 35mm 0018007017 40mm 0018007018 45mm 0018007019 50mm 0018007020 55mm 0018007021 60mm 0018007022 65mm 0018007023 70mm 0018007024 75mm 0018007025 80mm 0018007026 100mm 0018007029		70mm	0018007060	120mm	0018007120	150mm	0018007190											M20 DIA. LTH PART NUMBER 40mm 0018001120 50mm 0018001122 60mm 0018001124 70mm 0018001126 80mm 0018001128 100mm 0018001130									
		75mm	0018007061	130mm	0018007121	160mm	0018007191													M22-2.5 DIA. LNG PART NUMBER 50mm 0018007135							
		80mm	0018007062	140mm	0018007122	170mm	0018007192															M24 DIA. LNG PART NUMBER 50mm 0018007140 60mm 0018007141 70mm 0018007145 80mm 0018007146 100mm 0018007147 120mm 0018007148 130mm 0018007149 140mm 0018007150 150mm 0018007151 160mm 0018007152 170mm 0018007153 180mm 0018007154 190mm 0018007155 200mm 0018007156 220mm 0018007160 240mm 0018007161 260mm 0018007163 280mm 0018007164 300mm 0018007165 330mm 0018007170 340mm 0018007171					
		90mm	0018007063	150mm	0018007123	180mm	0018007193																	M36 DIA. LNG PART NUMBER 80mm 0018007210 90mm 0018007211 100mm 0018007212 120mm 0018007213 130mm 0018007214 140mm 0018007215 150mm 0018007216 160mm 0018007217 180mm 0018007218 200mm 0018007219			
		100mm	0018007064	160mm	0018007124	190mm	0018007194																			M42 DIA. LNG PART NUMBER 120mm 0018007230 140mm 0018007231 180mm 0018007240 200mm 0018007250	
		110mm	0018007065	170mm	0018007125	200mm	0018007195																				
		120mm	0018007066	180mm	0018007126	210mm	0018007196	* Due to product availability, plain may be substituted for plated.																			
		M10 DIA. LNG PART NUMBER 16mm 0018007030 20mm 0018007031 25mm 0018007032 30mm 0018007033 35mm 0018007034 40mm 0018007035 45mm 0018007036 50mm 0018007037 55mm 0018007038 60mm 0018007039 65mm 0018007040 70mm 0018007041 75mm 0018007042 80mm 0018007043 90mm 0018007044 100mm 0018007045		190mm	0018007127	220mm	0018007197			* Due to product availability, plain may be substituted for plated.																	
				200mm	0018007128	240mm	0018007198					* Due to product availability, plain may be substituted for plated.															
				220mm	0018007129	260mm	0018007199							* Due to product availability, plain may be substituted for plated.													
240mm	0018007130			300mm	0018007200	* Due to product availability, plain may be substituted for plated.																					
260mm	0018007131			320mm	0018007201											* Due to product availability, plain may be substituted for plated.											
280mm	0018007132			M14 DIA. LNG PART NUMBER 25mm 0018007067 30mm 0018007071 35mm 0018007072 40mm 0018007073 45mm 0018007074 50mm 0018007075 55mm 0018007076 60mm 0018007077 65mm 0018007078 70mm 0018007079 80mm 0018007080 90mm 0018007081 100mm 0018007082																							
300mm	0018007133																	M16 DIA. LNG PART NUMBER 35mm 0018007090 40mm 0018007091 45mm 0018007092 50mm 0018007093 55mm 0018007094 60mm 0018007095 70mm 0018007096 75mm 0018007097 80mm 0018007098 90mm 0018007099 100mm 0018007100 110mm 0018007101 120mm 0018007102 200mm 0018007105									
340mm	0018007133																			M18 DIA. LNG PART NUMBER 35mm 0018007090 40mm 0018007091 45mm 0018007092 50mm 0018007093 55mm 0018007094 60mm 0018007095 70mm 0018007096 75mm 0018007097 80mm 0018007098 90mm 0018007099 100mm 0018007100 110mm 0018007101 120mm 0018007102 200mm 0018007105							
M12 DIA. LNG PART NUMBER 25mm 0018007067 30mm 0018007071 35mm 0018007072 40mm 0018007073 45mm 0018007074 50mm 0018007075 55mm 0018007076 60mm 0018007077 65mm 0018007078 70mm 0018007079 80mm 0018007080 90mm 0018007081 100mm 0018007082																						M20 DIA. LNG PART NUMBER 50mm 0018007140 60mm 0018007141 70mm 0018007145 80mm 0018007146 100mm 0018007147 120mm 0018007148 130mm 0018007149 140mm 0018007150 150mm 0018007151 160mm 0018007152 170mm 0018007153 180mm 0018007154 190mm 0018007155 200mm 0018007156 220mm 0018007160 240mm 0018007161 260mm 0018007163 280mm 0018007164 300mm 0018007165 330mm 0018007170 340mm 0018007171					

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HEX HEAD CAP SCREWS FINE PLAIN



M8-1 DIA. FULL THREAD		M10-1.25 DIA. FULL THREAD		M12-1.25 DIA. FULL THREAD		M16-1.5 DIA. FULL THREAD		M20-1.5 DIA. FULL THREAD	
LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER
10mm	0018F00001	16mm	0018F00018	20mm	0018F00034	30mm	0018F00046	40mm	0018F00053
16mm	0018F00002	18mm	0018F00019	25mm	0018F00035	35mm	0018F00047	45mm	0018F00054
20mm	0018F00003	20mm	0018F00020	30mm	0018F00036	40mm	0018F00048	50mm	0018F00055
22mm	0018F00004	22mm	0018F00021	35mm	0018F00037	45mm	0018F00049	60mm	0018F00056
25mm	0018F00005	25mm	0018F00022	40mm	0018F00038	50mm	0018F00050	PARTIAL THREAD	
30mm	0018F00006	30mm	0018F00023	50mm	0018F00039	PARTIAL THREAD		70mm	0018F00073-1
35mm	0018F00007	35mm	0018F00024	PARTIAL THREAD		55mm	0018F00060-1	80mm	0018F00074-1
40mm	0018F00008	40mm	0018F00025	45mm	0018F00040-1	60mm	0018F00061-1	100mm	0018F00075-1
45mm	0018F00009	45mm	0018F00026	50mm	0018F00041-1	70mm	0018F00062-1	120mm	0018F00076-1
50mm	0018F00010	50mm	0018F00027	55mm	0018F00042-1	75mm	0018F00063-1	M22-1.5 DIA. FULL THREAD	
PARTIAL THREAD		PARTIAL THREAD		60mm	0018F00043-1	80mm	0018F00064-1	LNG	PART NUMBER
35mm	0018F00001-1	40mm	0018F00018-1	65mm	0018F00044-1	90mm	0018F00065-1	50mm	0018F00057
40mm	0018F00002-1	45mm	0018F00019-1	70mm	0018F00045-1	100mm	0018F00066-1	60mm	0018F00058
45mm	0018F00003-1	50mm	0018F00020-1	80mm	0018F00046-1	120mm	0018F00067-1	M24-2 DIAMETER FULL THREAD	
50mm	0018F00004-1	55mm	0018F00021-1	90mm	0018F00047-1	M18-1.5 DIA. FULL THREAD		LNG	PART NUMBER
55mm	0018F00005-1	60mm	0018F00022-1	100mm	0018F00048-1	LNG	PART NUMBER	50mm	0018F00059
60mm	0018F00006-1	70mm	0018F00023-1	110mm	0018F00049-1	40mm	0018F00051	60mm	0018F00060
65mm	0018F00007-1	75mm	0018F00024-1	120mm	0018F00050-1	50mm	0018F00052	70mm	0018F00061
70mm	0018F00008-1	80mm	0018F00025-1	M14-1.5 DIA. FULL THREAD		PARTIAL THREAD		PARTIAL THREAD	
80mm	0018F00009-1	90mm	0018F00026-1	LNG	PART NUMBER	60mm	0018F00068-1	80mm	0018F00077-1
M10-1 DIA. FULL THREAD		100mm	0018F00027-1	25mm	0018F00040	70mm	0018F00069-1	100mm	0018F00078-1
LNG	PART NUMBER	110mm	0018F00028-1	30mm	0018F00041	80mm	0018F00070-1	120mm	0018F00079-1
20mm	0018F00011	120mm	0018F00029-1	35mm	0018F00042	100mm	0018F00071-1	PARTIAL THREAD	
25mm	0018F00012	M12-1.5 DIA. FULL THREAD		40mm	0018F00043	120mm	0018F00072-1	80mm	0018F00077-1
30mm	0018F00013	LNG	PART NUMBER	45mm	0018F00044	M18-1.5 DIA. FULL THREAD		100mm	0018F00078-1
35mm	0018F00014	20mm	0018F00028	50mm	0018F00045	LNG	PART NUMBER	120mm	0018F00079-1
40mm	0018F00015	25mm	0018F00029	PARTIAL THREAD		50mm	0018F00051	PARTIAL THREAD	
45mm	0018F00016	30mm	0018F00030	50mm	0018F00051	55mm	0018F00052	60mm	0018F00060
50mm	0018F00017	35mm	0018F00031	55mm	0018F00052	60mm	0018F00053	70mm	0018F00061
PARTIAL THREAD		40mm	0018F00032	60mm	0018F00053	70mm	0018F00054	80mm	0018F00062
40mm	0018F00010-1	50mm	0018F00033	70mm	0018F00054	75mm	0018F00055	100mm	0018F00078-1
45mm	0018F00011-1	PARTIAL THREAD		80mm	0018F00055	80mm	0018F00056	120mm	0018F00079-1
50mm	0018F00012-1	45mm	0018F00030-1	90mm	0018F00056	90mm	0018F00057	PARTIAL THREAD	
55mm	0018F00013-1	50mm	0018F00031-1	100mm	0018F00057	100mm	0018F00058	80mm	0018F00077-1
60mm	0018F00014-1	55mm	0018F00032-1	120mm	0018F00058	120mm	0018F00059	100mm	0018F00078-1
70mm	0018F00015-1	60mm	0018F00033-1	PARTIAL THREAD		PARTIAL THREAD		120mm	0018F00079-1
80mm	0018F00016-1	65mm	0018F00034-1	50mm	0018F00051	PARTIAL THREAD		PARTIAL THREAD	
100mm	0018F00017-1	70mm	0018F00035-1	55mm	0018F00052	60mm	0018F00053	80mm	0018F00077-1
		80mm	0018F00036-1	60mm	0018F00053	70mm	0018F00054	100mm	0018F00078-1
		90mm	0018F00037-1	70mm	0018F00054	80mm	0018F00055	120mm	0018F00079-1
		100mm	0018F00038-1	80mm	0018F00055	90mm	0018F00056	PARTIAL THREAD	
		120mm	0018F00039-1	90mm	0018F00056	100mm	0018F00057	80mm	0018F00077-1
				100mm	0018F00057	120mm	0018F00059	100mm	0018F00078-1
				120mm	0018F00059			120mm	0018F00079-1

**STORAGE DRAWERS
&
CABINETS
ARE
AVAILABLE
IN
SECTION 12**

METRIC FASTENERS

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SOCKET SET SCREWS PLAIN CUP POINT				MACHINE SCREWS PHILLIPS PAN HEAD			
M3-0.5 DIA. LNG PART NUMBER 3mm 0018016330 4mm 0018016340 5mm 0018016350 6mm 0018016360 8mm 0018016370 10mm 0018016380 12mm 0018016390 16mm 0018016400 18mm 0018016410 20mm 0018016430		M6-1.0 DIA. LNG PART NUMBER 5mm 0018016710 6mm 0018016720 8mm 0018016730 10mm 0018016740 12mm 0018016750 14mm 0018016760 16mm 0018016770 18mm 0018016780 20mm 0018016790 25mm 0018016800 30mm 0018016810 35mm 0018016820 40mm 0018016830 45mm 0018016840 50mm 0018016850		M10-1.5 DIA. LNG PART NUMBER 10mm 0018017010 12mm 0018017020 14mm 0018017030 16mm 0018017050 18mm 0018017060 20mm 0018017070 25mm 0018017080 30mm 0018017090 35mm 0018017100 40mm 0018017110 45mm 0018017120 50mm 0018017130 60mm 0018017140		M16-2.0 DIA. LNG PART NUMBER 16mm 0018017350 18mm 0018017360 20mm 0018017370 25mm 0018017380 30mm 0018017390 35mm 0018017400 40mm 0018017410 45mm 0018017420 50mm 0018017430 60mm 0018017440 70mm 0018017450 80mm 0018017460	
M4-0.7 DIA. LNG PART NUMBER 4mm 0018016440 5mm 0018016450 6mm 0018016460 8mm 0018016470 10mm 0018016480 12mm 0018016490 14mm 0018016500 16mm 0018016510 18mm 0018016520 20mm 0018016530 25mm 0018016540 30mm 0018016550 35mm 0018016560 40mm 0018016570		M8-1.25 DIA. LNG PART NUMBER 6mm 0018016860 8mm 0018016870 10mm 0018016880 12mm 0018016890 14mm 0018016900 16mm 0018016910 18mm 0018016920 20mm 0018016930 25mm 0018016940 30mm 0018016950 35mm 0018016960 40mm 0018016970 45mm 0018016980 50mm 0018016990 60mm 0018017000 70mm 0018017003		M12-1.75 DIA. LNG PART NUMBER 12mm 0018017150 14mm 0018017160 16mm 0018017170 18mm 0018017180 20mm 0018017190 25mm 0018017200 30mm 0018017210 35mm 0018017220 40mm 0018017230 45mm 0018017240 50mm 0018017250 60mm 0018017260			
M5-0.8 DIA. LNG PART NUMBER 5mm 0018016580 6mm 0018016590 8mm 0018016600 10mm 0018016610 12mm 0018016620 14mm 0018016630 16mm 0018016640 18mm 0018016650 20mm 0018016660 25mm 0018016670 30mm 0018016680 35mm 0018016690 40mm 0018016700		M14-2.0 DIA. LNG PART NUMBER 14mm 0018017280 16mm 0018017290 20mm 0018017300 25mm 0018017310 30mm 0018017320 40mm 0018017330 50mm 0018017340		M20-2.5 DIA. LNG PART NUMBER 20mm 0018017480 25mm 0018017560 30mm 0018017490 35mm 0018017570 40mm 0018017580 50mm 0018017500 60mm 0018017590			
		M24-3.0 DIA. LNG PART NUMBER 40mm 0018017520 45mm 0018017530 50mm 0018017540 60mm 0018017550		M2.5-.5 DIA. LNG PART NUMBER 3mm 0018020498 4mm 0018020499 5mm 0018020500 25mm 0018020600			
		M3-0.5 DIA. LNG PART NUMBER 4mm 0018020650 5mm 0018020655 6mm 0018020660 8mm 0018020670 10mm 0018020680 12mm 0018020681 16mm 0018020683 20mm 0018020683-1 25mm 0018020684 30mm 0018020685		M6-1.0 DIA. LNG PART NUMBER 10mm 0018020800 12mm 0018020810 16mm 0018020820 20mm 0018020830 25mm 0018020840 30mm 0018020850 35mm 0018020860 40mm 0018020870 45mm 0018020880 50mm 0018020890			
		M4-0.7 DIA. LNG PART NUMBER 6mm 0018020690 10mm 0018020700 12mm 0018020710 16mm 0018020720 20mm 0018020730		M8-1.25 DIA. LNG PART NUMBER 16mm 0018020910 20mm 0018020920 25mm 0018020930 30mm 0018020940 40mm 0018020950			
		M5-0.8 DIA. LNG PART NUMBER 6mm 0018020740 8mm 0018020750 10mm 0018020760 12mm 0018020760-1 16mm 0018020770 20mm 0018020780 25mm 0018020790 30mm 0018020792 70mm 0018020799		M10-1.5 DIA. LNG PART NUMBER 20mm 0018020960 25mm 0018020970 30mm 0018020980 40mm 0018020990			

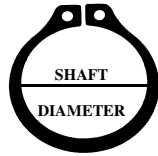


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LNG=LENGTH

METRIC FASTENERS

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EXTERNAL RETAINING RINGS

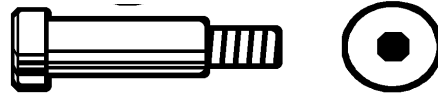


INTERNAL RETAINING RINGS



LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER
M3	0018042400	M34	0018042700	M100	0018043010	M8	0018044000	M40	0018044300	M108	0018044600
M4	0018042410	M35	0018042710	M105	0018043020	M9	0018044010	M42	0018044310	M110	0018044610
M5	0018042420	M36	0018042720	M110	0018043030	M10	0018044020	M45	0018044320	M112	0018044620
M6	0018042430	M37	0018042730	M115	0018043040	M11	0018044030	M47	0018044330	M115	0018044630
M7	0018042440	M38	0018042740	M120	0018043050	M12	0018044040	M48	0018044340	M120	0018044640
M8	0018042450	M40	0018042750	M125	0018043060	M13	0018044050	M50	0018044350	M125	0018044650
M9	0018042460	M42	0018042760	M130	0018043070	M14	0018044060	M52	0018044360	M130	0018044660
M10	0018042470	M45	0018042770	M135	0018043080	M15	0018044070	M55	0018044370	M135	0018044670
M11	0018042480	M47	0018042780	M140	0018043090	M16	0018044080	M56	0018044380	M140	0018044680
M12	0018042490	M48	0018042790	M145	0018043100	M17	0018044090	M58	0018044390	M145	0018044690
M13	0018042500	M50	0018042800	M150	0018043110	M18	0018044100	M60	0018044400	M150	0018044700
M14	0018042510	M52	0018042810	M155	0018043120	M19	0018044110	M62	0018044410	M155	0018044710
M15	0018042520	M55	0018042820	M160	0018043130	M20	0018044120	M63	0018044420	M160	0018044720
M16	0018042530	M56	0018042830	M165	0018043140	M21	0018044130	M65	0018044430	M165	0018044730
M17	0018042540	M57	0018042840	M170	0018043150	M22	0018044140	M68	0018044440	M170	0018044740
M18	0018042550	M58	0018042850	M175	0018043160	M23	0018044150	M70	0018044450	M175	0018044750
M19	0018042560	M60	0018042860	M180	0018043170	M24	0018044160	M72	0018044460	M180	0018044760
M20	0018042570	M62	0018042870	M185	0018043180	M25	0018044170	M75	0018044470	M185	0018044770
M21	0018042580	M63	0018042880	M190	0018043190	M26	0018044180	M78	0018044480	M190	0018044780
M22	0018042590	M65	0018042890	M195	0018043200	M27	0018044190	M80	0018044490	M195	0018044790
M23	0018042600	M68	0018042900	M200	0018043210	M28	0018044200	M82	0018044500	M200	0018044800
M24	0018042610	M70	0018042910	M210	0018043220	M29	0018044210	M85	0018044510	M210	0018044810
M25	0018042620	M72	0018042920	M220	0018043230	M30	0018044220	M88	0018044520	M220	0018044820
M26	0018042630	M75	0018042930	M240	0018043240	M31	0018044230	M90	0018044530	M230	0018044830
M27	0018042640	M78	0018042940	M250	0018043250	M32	0018044240	M92	0018044540	M240	0018044840
M28	0018042650	M80	0018042950	M260	0018043260	M34	0018044250	M95	0018044550	M250	0018044850
M29	0018042660	M82	0018042960	M270	0018043270	M35	0018044260	M98	0018044560	M260	0018044860
M30	0018042670	M85	0018042970	M280	0018043280	M36	0018044270	M100	0018044570	M270	0018044870
M32	0018042680	M88	0018042980	M290	0018043290	M37	0018044280	M102	0018044580	M290	0018044880
M33	0018042690	M90	0018042990	M300	0018043300	M38	0018044290	M105	0018044590	M300	8900018044
		M95	0018043000								

SHOULDER BOLTS



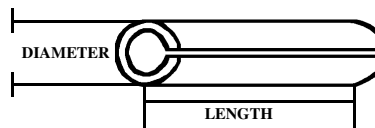
M6 DIA.		M8 DIA.		M10 DIA.		M12 DIA.		M16 DIA.		M20 DIA.	
LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER
8mm	0018055051	10mm	0018055064	12mm	0018055080	25mm	0018055100	35mm	0018055225	50mm	0018055305
10mm	0018055052	12mm	0018055065	16mm	0018055081	30mm	0018055102	40mm	0018055230	60mm	0018055315
12mm	0018055053	16mm	0018055066	20mm	0018055082	35mm	0018055104	45mm	0018055235	70mm	0018055320
16mm	0018055054	20mm	0018055068	25mm	0018055083	40mm	0018055105	50mm	0018055240	80mm	0018055330
20mm	0018055055	25mm	0018055069	30mm	0018055084	45mm	0018055106	55mm	0018055245	90mm	0018055340
25mm	0018055056	30mm	0018055070	35mm	0018055085	50mm	0018055107	60mm	0018055250	100mm	0018055350
30mm	0018055057	35mm	0018055071	40mm	0018055086	55mm	0018055108	70mm	0018055260	120mm	0018055360
35mm	0018055058	40mm	0018055072	45mm	0018055087	60mm	0018055109	80mm	0018055270		
40mm	0018055059	45mm	0018055073	50mm	0018055088	70mm	0018055110	90mm	0018055280		
45mm	0018055060	50mm	0018055074	55mm	0018055089	80mm	0018055113	100mm	0018055290		
50mm	0018055061	55mm	0018055075	60mm	0018055090	90mm	0018055115	120mm	0018055300		
55mm	0018055062	60mm	0018055076	70mm	0018055091	100mm	0018055117				
60mm	0018055063			80mm	0018055092	120mm	0018055119				
				90mm	0018055093						
				100mm	0018055095						

*PLATED
LNG=LENGTH

METRIC FASTENERS

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SPRING LOCK PINS



M10 DIA.

LNG PART NUMBER

10mm	0018036010
12mm	0018036020
14mm	0018036030
16mm	0018036040
18mm	0018036050
20mm	0018036060
22mm	0018036070
24mm	0018036080
26mm	0018036090
28mm	0018036100
30mm	0018036110
32mm	0018036120
36mm	0018036130
40mm	0018036140
45mm	0018036150
50mm	0018036160
55mm	0018036170
60mm	0018036180
65mm	0018036190
70mm	0018036200
75mm	0018036210
80mm	0018036220
85mm	0018036230
90mm	0018036240
95mm	0018036250
100mm	0018036260
120mm	0018036270
140mm	0018036280
160mm	0018036290

M12 DIA.

LNG PART NUMBER

10mm	0018036300
12mm	0018036310
14mm	0018036320
16mm	0018036330
18mm	0018036340
20mm	0018036350
22mm	0018036360
24mm	0018036370
26mm	0018036380
28mm	0018036390
30mm	0018036400
32mm	0018036410
36mm	0018036420
40mm	0018036430
45mm	0018036440
50mm	0018036450
55mm	0018036460
60mm	0018036470
65mm	0018036480
70mm	0018036490
75mm	0018036500
80mm	0018036510
85mm	0018036520
90mm	0018036530
95mm	0018036540
100mm	0018036550
120mm	0018036560
140mm	0018036570
160mm	0018036580
180mm	0018036590

M8 DIA.

LNG PART NUMBER

10mm	0018035740
12mm	0018035750
14mm	0018035760
16mm	0018035770
18mm	0018035780
20mm	0018035790
22mm	0018035800
24mm	0018035810
26mm	0018035820
28mm	0018035830
30mm	0018035840
32mm	0018035850
36mm	0018035860
40mm	0018035870
45mm	0018035880
50mm	0018035890
55mm	0018035900
60mm	0018035910
65mm	0018035920
70mm	0018035930
75mm	0018035940
80mm	0018035950
85mm	0018035960
90mm	0018035970
95mm	0018035980
100mm	0018035990
120mm	0018036000

M4.5 DIA.

LNG PART NUMBER

5mm	0018035050
6mm	0018035060
8mm	0018035070
10mm	0018035080
12mm	0018035090
14mm	0018035100
16mm	0018035110
18mm	0018035120
20mm	0018035130
22mm	0018035140
24mm	0018035150
26mm	0018035160
28mm	0018035170
30mm	0018035180
32mm	0018035190
36mm	0018035200
40mm	0018035210
45mm	0018035220
50mm	0018035230

M5 DIA.

LNG PART NUMBER

6mm	0018035240
8mm	0018035250
10mm	0018035260
12mm	0018035270
14mm	0018035280
16mm	0018035290
18mm	0018035300
20mm	0018035310
22mm	0018035320
24mm	0018035330
26mm	0018035340
28mm	0018035350
30mm	0018035360
32mm	0018035370
36mm	0018035380
40mm	0018035390
45mm	0018035400
50mm	0018035410
55mm	0018035420
60mm	0018035430
65mm	0018035440
70mm	0018035450
75mm	0018035460
80mm	0018035470

M3.5 DIA.

LNG PART NUMBER

4mm	0018034680
5mm	0018034690
6mm	0018034700
8mm	0018034710
10mm	0018034720
12mm	0018034730
14mm	0018034740
16mm	0018034750
18mm	0018034760
20mm	0018034770
22mm	0018034780
26mm	0018034790
28mm	0018034800
30mm	0018034810
32mm	0018034820
36mm	0018034830
40mm	0018034840

M4 DIA.

LNG PART NUMBER

4mm	0018034850
5mm	0018034860
6mm	0018034870
8mm	0018034880
10mm	0018034890
12mm	0018034900
14mm	0018034910
16mm	0018034920
18mm	0018034930
20mm	0018034940
22mm	0018034950
24mm	0018034960
26mm	0018034970
28mm	0018034980
30mm	0018035000
32mm	0018035010
36mm	0018035020
40mm	0018035030
45mm	0018035040
50mm	0018035050

M2.5 DIA.

LNG PART NUMBER

4mm	0018034350
5mm	0018034360
6mm	0018034370
8mm	0018034380
10mm	0018034390
12mm	0018034400
14mm	0018034410
16mm	0018034420
18mm	0018034430
20mm	0018034440
22mm	0018034450
24mm	0018034460
26mm	0018034470
28mm	0018034480
30mm	0018034490

M3 DIA.

LNG PART NUMBER

4mm	0018034500
5mm	0018034510
6mm	0018034520
8mm	0018034530
10mm	0018034540
12mm	0018034550
14mm	0018034560
16mm	0018034570
18mm	0018034580
20mm	0018034590
22mm	0018034600
24mm	0018034610
26mm	0018034620
28mm	0018034630
30mm	0018034640
32mm	0018034650
36mm	0018034660
40mm	0018034670

M1 DIA.

LNG PART NUMBER

4mm	0018034000
5mm	0018034010
6mm	0018034020
8mm	0018034030
10mm	0018034040
12mm	0018034050
14mm	0018034060
16mm	0018034070
18mm	0018034080
20mm	0018034090

M 1.5 DIA.

LNG PART NUMBER

4mm	0018034100
5mm	0018034110
6mm	0018034120
8mm	0018034130
10mm	0018034140
12mm	0018034150
14mm	0018034160
16mm	0018034170
18mm	0018034180
20mm	0018034190


M2 DIA.

LNG PART NUMBER

4mm	0018034200
5mm	0018034210
6mm	0018034230
8mm	0018034240
10mm	0018034250
12mm	0018034260
14mm	0018034270
16mm	0018034280
18mm	0018034290
20mm	0018034300
22mm	0018034310
26mm	0018034320
28mm	0018034330
30mm	0018034340

METRIC FASTENERS

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TAPER PINS						M6 DIA.		M10 DIA.			
PRECISION - HARDENED GROUND						LNG	PART NUMBER	LNG	PART NUMBER		
M2 DIA.		M3 DIA.		M4 DIA.		M5 DIA.		20mm	0018032730	30mm	0018032910
LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	LNG	PART NUMBER	25mm	0018032740	35mm	0018032920
10mm	0018032300	12mm	0018032440	12mm	0018032520	16mm	0018032640	30mm	0018032750	40mm	0018032930
12mm	0018032310	14mm	0018032450	14mm	0018032530	20mm	0018032650	35mm	0018032760	45mm	0018032940
14mm	0018032320	16mm	0018032460	16mm	0018032540	25mm	0018032660	40mm	0018032770	50mm	0018032950
16mm	0018032330	20mm	0018032470	20mm	0018032550	30mm	0018032670	45mm	0018032780	60mm	0018032960
20mm	0018032340	25mm	0018032480	25mm	0018032560	35mm	0018032680	50mm	0018032790	70mm	0018032961
25mm	0018032350	30mm	0018032490	30mm	0018032570	40mm	0018032690	60mm	0018032800	80mm	0018032961
30mm	0018032360	35mm	0018032500	35mm	0018032580	45mm	0018032700	70mm	0018032810	100mm	0018032963
		40mm	0018032510	40mm	0018032590	50mm	0018032710				
M2.5 DIA.								M8 DIAMETER		M12 DIA.	
LNG	PART NUMBER							LNG	PART NUMBER	LNG	PART NUMBER
10mm	0018032370							30mm	0018032820	30mm	0018033000
12mm	0018032380							35mm	0018032830	35mm	0018033010
14mm	0018032390							40mm	0018032840	40mm	0018033020
16mm	0018032400							45mm	0018032850	45mm	0018033030
20mm	0018032410							50mm	0018032860	50mm	0018033040
25mm	0018032420							60mm	0018032870	60mm	0018033050
30mm	0018032430							70mm	0018032880	70mm	0018033060
								80mm	0018032890	80mm	0018033080
								100mm	0018032900	100mm	0018033090

SUGGESTED METRIC ASSEMBLY TORQUE VALUES							
DIA.	THREAD PTCH	SHCS 12.9	8.8 HEX HEAD CAP SCREW				10.9
			DRY	LUBED	DRY	LUBED	
M 3	0.5	21					
M 4	0.7	50	28	17	39	24	
M 5	0.8	109	67	34	78	47	
M 6	1.00	14	8	5	11	7	
M 7	1.00		14	8	20	12	
M 8	1.25 1.00	35	20 21	12 13	28 30	17 18	
M 10	1.50 1.25	70	40 41	24 25	55 57	33 35	
M 12	1.75 1.25	120	69 73	42 45	95 105	57 63	
M 14	2.00 1.50		109 116	65 70	150 160	90 95	
M 16	2.00 1.50	300	166 175	100 105	235 245	140 145	
M 18	2.50 1.50		228 250	135 150	325 355	195 215	
M 20	2.50 1.50	580	325 355	195 215	455 495	275 300	
M 22	2.50 1.50		440 470	265 280	615 660	370 400	
M 24	3.00 2.00	1000	560 600	335 360	780 850	470 510	
M 27	3.00		825	500	160	700	
M 30	3.50	1990	1115	675	1580	950	
M 33	3.50		1520	900	2150	1290	
M 36	4.00	2850	1950	1175	2750	1650	
M 38	4.00		2535	1525	3550	2130	

CONVERSION CHART					
THREADS					
METRIC mm	INCH approx.	PITCH mm	METRIC mm	INCH approx.	PITCH mm
1	000-120	0.25	10	3/8"	1.5
1.2	00-90	0.25	12	1/2"	1.75
1.4	8-80	0.3	14	9/16"	2
1.6	1-64	0.35	16	5/8"	2
1.8	1-64	0.35	18	11/16"	2.5
2	2-56	0.4	20	3/4"	2.5
2.2	2-56	0.45	22	7/8"	2.5
2.5	3-48	0.45	24	1"	3
2.6	3-48	0.45	27	1 1/16"	3
3	4-40	0.5	30	1 3/16"	3.5
3.5	6-32	0.6	33	1 5/16"	3.5
4	8-32	0.7	36	1 7/16"	4
5	10-24	0.8	39	1 1/2"	4
6	1/4"	1	42	1 5/8"	4.5
7	9/32"	1	45	1 3/4"	4.5
8	5/16"	1.25	48	1 7/8"	5

LENGTH					
METRIC mm	INCH approx.	METRIC mm	INCH approx.	METRIC mm	INCH approx.
1	3/64"	45	1-3/4"	190	7-1/2"
1.5	1/16"	50	2"	200	8"
2	5/64"	55	2-3/16"	220	8-3/4"
3	1/8"	60	2-3/8"	240	9-9/16"
4	5/32"	65	2-9/16"	260	10-1/4"
5	3/16"	70	2-3/4"	270	10-3/4"
6	1/4"	75	3"	280	11"
8	5/16"	80	3-3/16"	300	12"
10	3/8"	85	3-3/8"	320	12-1/2"
12	1/2"	90	3-1/2"	340	13-1/2"
14	9/16"	100	4"	360	14-1/4"
16	5/8"	110	4-3/8"	380	15"
18	11/16"	120	4-3/4"	400	15-3/4"
19	3/4"	130	5"	420	16-1/2"
20	3/4"	140	5-1/2"	440	17-3/8"
25	1"	150	6"	460	18"
30	1-3/16"	160	6-1/4"	480	19"
35	1-3/8"	170	6-3/4"	500	20"
40	1-9/16"	180	7"		