

AEROSPACE FASTENERS

MS

Military Standard

NAS

National Aerospace
Standard

AN

Air Force-Navy
Aeronautical



YURA SANSHO CO., LTD
TEL 06-6532-1331



MS

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NAS

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規格について



航空機に使われる規格

航空機に使用される金属材料の種類は非常に多く、またその規格も多様です。
代表的な規格としては、次に示すようなものがあります。

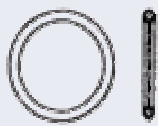
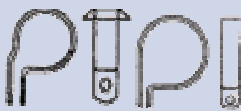
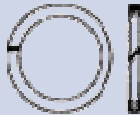
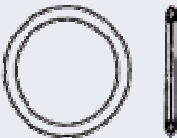
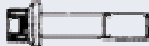
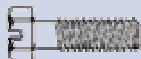
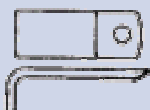
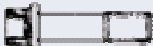
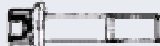
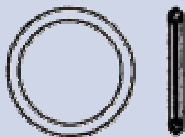
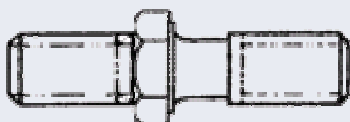
MS、NAS、AN、SAE、AMS、AISI、ASTM、MIL、FS、JIS、BS、DIN

上記の規格は、それぞれに分野／特色に違いがあり、必要に応じて使い分けられています。
本カタログでは、MS、NAS、ANについてご紹介いたします。



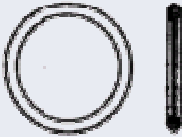
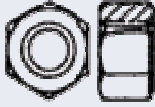
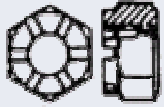
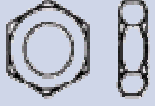
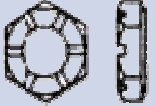
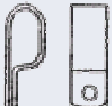
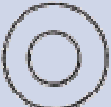
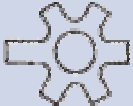
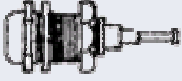
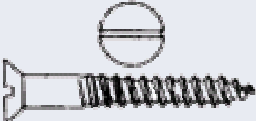
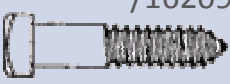
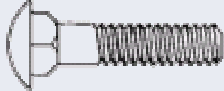
MS	Military Standard (米軍標準規格)
NAS	National Aerospace Standard (国際航空宇宙規格) 航空宇宙システムと部品類の仕様決定、設計および保守のために航空宇宙産業で使用される。
AN	Air Force-Navy Aeronautical (米空海軍標準規格)
SAE	Society of Automotive Engineers 米国自動車技術者協会の略号で、SAEが制定した材料規格では、鉄鋼のほとんどに番号を付けて表している (SAE材料番号)。
AMS	Aerospace Material Specification SAEの航空部が、民間航空機材料について制定した航空宇宙材料仕様の略称。 現在では米空軍をはじめ、米国における各種航空機材料、特に耐熱合金やチタン合金などに適用されている。
AISI	American Iron and Steel Institute 米国鉄鋼協会の略号で、この協会が制定した鉄鋼規格を一般に「AISI規格」と呼ぶ。
ASTM	American Society for Testing Materials 米国材料試験協会の略号で、種々の工業材料規格とその試験方法規格を制定している。航空機用ではマグネシウム合金に適用している。
MIL	Military Specification 米軍規格の略号で、通常「ミル・スペック」、または単に「ミル」と呼ぶ。 米国軍需省標準局から発行された米軍規格。
FS	Federal Specification 米国政府が制定した連邦規格の略称で、日本のJIS規格に相当する。
JIS	Japan Industrial Standard 日本工業規格の略称で、工業標準化法に基づいて定めた国家規格である。
BS	British Standard イギリスの国家規格。
DIN	Deutsche Industrie-Normen ドイツの国家規格。



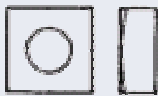
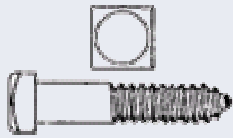
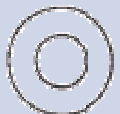
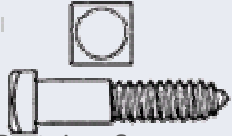
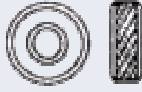
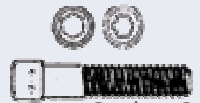
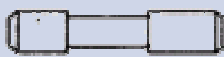
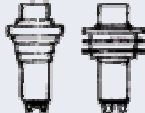
MS 9012 ~ MS 9321	MS 9012-9014  Retaining Rings	MS 9016-9017  Bushing Screw, Slotted	MS 9018  Insert, 18-1.5MM Aviation Spark plug, Helical Coil	MS 9020-9021  Packing "O" Ring	
	MS 9024-9025  Clamp, Loop Types	MS 9033-9039  Bolt, 12 Point High Temp.	MS 9047-9048  Pin, Spring	MS 9058  Ring, Back-Up	MS 9060-9066  Bolt, Machine 12 Point Ext. Washer Head High Temp.
	MS 9068  Packing "O" Ring	MS 9081  Washer, Key-Double	MS 9088-9094  Bolt, Machine 12 Point Head Drilled	MS 9099-9100  Nut, Hex Connection	MS 9101-9104  Bracket, 90° Angle .190-.375 Bolt
	MS 9105  Pin, Lock	MS 9122-9123  Slotted Hex Head Machine Screw	MS 9146-9163  Bolt, Machine 12 Point Head	MS 9164  Pin, Dowel Oversize	MS 9165-9168  Bolt, Brackets
	MS 9169-9175  Bolt, Machine 12 Point Head Drilled	MS 9177/8 9183-9192  Bolt, Machine Drilled and Undrilled	MS 9200-9201  Rivets 100° Flush Head and Universal Head	MS 9224  Bolt, Machine 12 Point Head	MS 9228-9231  Bracket, 90° Angle .190- .375 Bolt
MS 9241  Packing "O" Ring	MS 9245  Cotter Pin Optional Ends		MS 9274  Washer, Key-Double		
MS 9303-9312  Stud, Shouldered Hex, Wrenching Drilled and Undrilled		MS 9316/7  Screw, Machine Hexagon Head Slotted	MS 9318/9  Rivets 100° Flush Head and Universal Head	MS 9320-9321  Washer, Flat	

MS (Military Standard)



MS 9352 ~ MS 16210	MS 9352-9353/4  Clamp, Loop	MS 9355  Packing "O" Ring	MS 9356/7  Nut, Plain Hexagon	MS 9358/9  Nut, Castellated Hexagon
	MS 9360  Nut, Plain Hex, Drilled Silver Plated	MS 9361/2  Nut, Plain Hexagon, Check (also Silver Plated)	MS 9363/4  Nut, Slotted Hexagon, Shear (also Silver Plated)	MS 9365-9367  Bracket, Bolt, Flat
MS 9391-9395  Clamp, Loop: Cushion; Shop Back Plate	MS 9403  Rivet, Universal Head	MS 9440-9459  Bolt, Machine Hexagon Head Drilled and Undrilled	MS 9460  Rivet, Solid 100° Flush Head	MS 15000-15006  Fittings, Lubrication
MS 15795  Washer, Flat	MS 15820  Washers, Lock (Special Design)	MS 15986-15988  Stud, Plain Full Body	MS 16036  Belt, Aircraft Safety	
MS 16107  Jacks, Tip High Voltage	MS 16108  Jacks, Tip Low Voltage	MS 16187  Studs, Full Thread	MS 16198  Round Head Wood Screw Slotted	MS 16199  Screw, Wood Slotted, 82° Flat
MS 16200  Pan Head, Screws, Machine Slotte	MS 16201  Flat Head Bolt, Lag	MS 16202 /16209  Square Head Bolt, Lag Gimlet Point	MS 16203  Full MS Nuts, Plain Hexagon, Jam and Finished	MS 16205  Bolt, Machine Semi-Finished Hexagon Head
MS 16206  Bolt, Machine Hexagon Head Reg. Semi-Finished	MS 16207  Carriage Bolt, Round Head	MS 16208  Hexagon Head Machine Bolt, Semi-Finished	MS 16209  See MS 16202	MS 16210  Nut, Plain Hexagon, Machine Screw

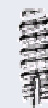
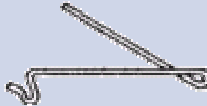
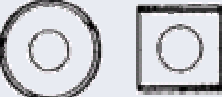
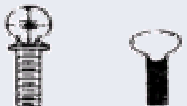
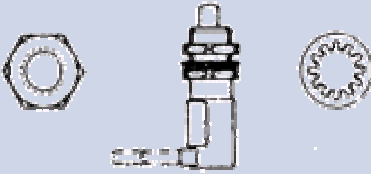
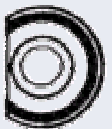


MS 16211 ~ MS 18064	MS 16211  Nut, Plain Square	MS 16212  Washers, Flat	MS 16213  Washer, Lock External Tooth Non- Magnetic	MS 16214  Washer, Lock, Spring, Split	
	MS 16215  Screw, Wood Slotted Oval Head	MS 16216  Round Head Wood Screws, Slotted	MS 16217  82° Flat Head Wood Screws, Slotted	MS 16218  82° Flat Head Machine Screws Slotted	MS 16219  82° Flat Head Cap Screws Slotted
	MS 16228  Nut, Self-Locking Hexagon, Hvy. Thin Nylon Insert	MS 16230-16235  Lag Bolt, Square Head Gimlet Point	MS 16268  100° Flat Head Machine Screw Slotted	MS 16285  Nut, Hexagon Semi- Finished, Heavy	MS 16286  Nuts, Hexagon Finished To 1000° F
	MS 16535/6  Rivet, Tubular Oval Head; Countersunk Head	MS 16555/6  Dowel Pins Straight	MS 16562  Spring Pins	MS 16593  Rivet, Solid 78° Flat Head	MS 16600  Washer, Flat
	MS 16624-16634  Retaining Rings	MS 16637-16638  Shoulder Screw Hexagon Socket	MS 16992  Bolt, Lag Square Head Gimlet Point	MS 16994  Nut, Plain Knurled	MS 16995-16998  Hexagon Socket Cap Screws 1960 Series Coarse and Fine
MS17121-17123  Terminal, Stud Turret	MS 17155-17158  Terminal, Stud, Feedthru	MS 17160  Clip, Spring Tension	MS 17293-17303  Stud-Stepped	MS 17825/6  Nut, Self-Locking, Castellated, 250° F. Nylon Insert	
MS 17828  Nut, Self-Locking 250° F, Regular Height	MS 17829/30  Nuts, Self-Locking Nylon Insert, 250°	MS17974/5  Switch, Moistureproof Push- Push Action	MS 17984-17990  Pin, Quick-Release Assemblies Available in Button	MS 18063/4  Set Screw, Self- Locking, Hex Socket (250° F)	

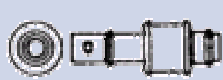
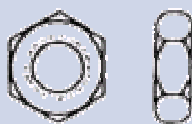
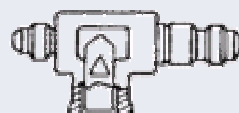
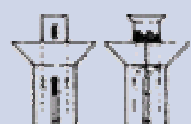
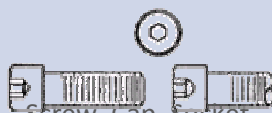
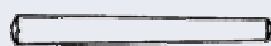
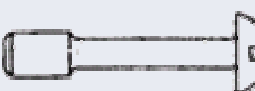
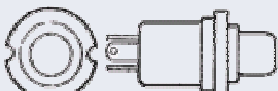


MS 18065 ~ MS 21040	MS 18065/6 Set Screw, Self-Locking, Hex Socket(250° F)	MS 18067/8 Set Screw, Self-Locking, Hex Socket(250° F)	MS 19059-19064 Ball, Bearing	MS 19069/70 Washer, Key, Retaining
	MS 20000 Turnbuckle Assembly	MS 20001 Hinge, Structural	MS 20002 Washers, Countersunk and Plain	MS 20003 Indicator Humidity Card
MS 20004-20024 Bolts, Internal Wrenching	MS 20033-20046 Bolt, Machine, Hexagon Head 1200° F	MS 20065-20068 Key, Machine(Feather)	MS 20069 Bolt Carriage With Hex Nut	MS 20073-20074 Bolt, Machine Aircraft Drilled Head
MS 20115 Shackle-Wire, Rope	MS 20219-20221 Pulley, Groove, Aircraft	MS 20253 Pin, Hinge	MS 20257 Hinge, Continuous	MS 20270-20271 Joint Universal
MS 20341 Nut, Plain Hexagon Electrical	MS 20364/5 Nut, Self-Locking 250° F	MS 20392 Pin, Headed Drilled Shank(Clevis)	MS 20426-20470 Rivets, Solid And Tubular 100° CTSK Round Head Flat Head Universal Head	MS 20500-20501 Nuts, Self-Locking Hexagon and Plate 1200° F
MS 20600-20606 Rivet, Blind Structural & Non-Structural	MS 20613-30615 Rivet, Solid Universal	MS 20658-20659 Terminal Wire Rope, Fork End; Lug Crimp Style	MS 20663-20664 Ball End, Wire Rope Swaging	MS 20667-20668 Terminal Wire Rope Fork End; Eye End
MS 20757-20913 Fittings, Elbows, and Connectors	MS 20995 Wire, Lock	MS 21000-21001 Pin, Flathead Hi-Shear	MS 21025 Nut, Castellated Bearing Retaining	MS 21040 Nut, Self-Locking Hexagonal, 500° F

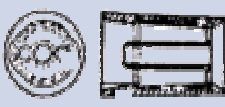
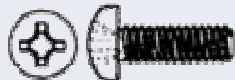
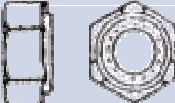
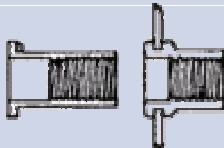
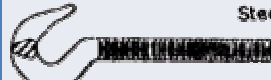
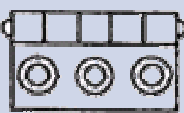
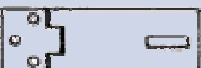
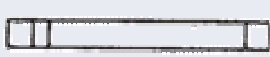


MS 21042 ~ MS 21920	MS 21042-21-46  Nut, Self-Locking Ring Base	MS 21207  100° Flathead Tapping Screw     Type B Type BF Type BG Type BT			MS 21208-21209  Insert, Screw Thread, Helical Coil
	MS 21250  Bolt, 12PT External Wrenching	MS 21251  Turnbuckle Body, Clip Locking	MS 21252-21253  Clevis End, Turn Buckle, Clip Locking	MS 21254-21255  Eye End, Turn Buckle	MS 21256  Clip, Locking Turn Buckle
MS 21258  Washer, Key Retaining	MS 21259-21260  Terminal Wire Rope, Stud	MS 21261  Woodruff Key, Chamfered	MS 21262  Socket Head Cap Screw (HEX) Self Locking 250° F	MS 21264  Nut, Jam, Drilled – Pipe Fitting	
MS 21266  Grommet Plastic Edging		MS 21268-21271   Fillister Head Pan Head   100° Flat Head Binding Head	MS 21277-21294  Screw, Bolt 12 Pt. Extended Washer Head Drilled and Undrilled	MS 21295  Socket Head Cap Screw(HEX) Self-Locking 250° F	
MS 21301  Bolt, Shoulder Hex and Spline Socket	MS 21304  Nut, Plain Square	MS 21305-21308  Washers; Cushion, Flat Round, Flat Square, Saddle	MS 21314-21315  Strap, Retaining Two Hole, For Pipe Conduit, Cable and Tubing	MS 21316-21317  Shoulder screw With and Without Shoulder	
MS 21318  Round Head Drive Screw	MS 21321  Switch, Sealed Sensitive		MS 21322/3  Clamp, Loop Plain and Cushioned	MS 21324-7  Snapslide Fasteners Style III, IV	
MS 21331  Nut, Plain, Clinch	MS 21332  Fastener, Snapslide	MS 21333-21334  Clamp, Loop	MS 21900-21918  MS 21912 Fittings, Flareless Tube	MS 21919-21920  Clamp, Loop and Hose	



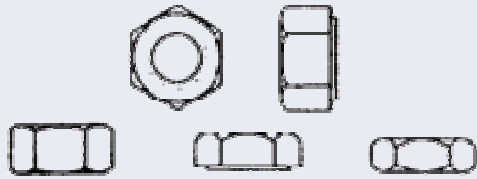
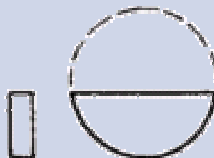
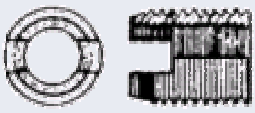
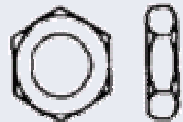
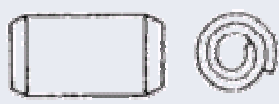
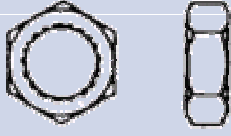
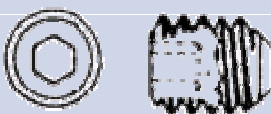
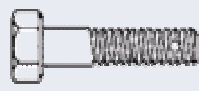
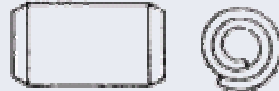
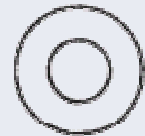
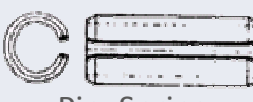
MS 21921 ~ MS 25089	MS 21921-21935  Fittings, Flareless Tubing and Cluster	MS 21982  Lamp, 28 Volt Incandescent	MS 22002  Link, Parachute Removable Connector	MS 22003-22010  Link, Lap, Aircraft Safety Belt; Bar Adjuster; Shoulder Harness; Release	
	MS 22011-22022  Connectors Parachute	MS 22040-22048  Parachute Harness, Connectors	MS 24017  Nut, Plain Hexagon, Mounting	MS 24127  Nut, Plain Hexagon	MS 24318  Switch, Push
	MS 24319  Boot, Joggle Switch	MS 24371  Boot, Toggle Switch	MS 24388-24405  Fittings, Flared and Flareless	MS 24566  Pulley, Control	MS 24583  82° Flat Head Machine Screw Phillips Recessed
	MS 24584  Pan Head Machine Screw – Phillips Recess	MS 24594  Switch, Sensitive – Plunger Type – High Temperature	MS 24612-24614  Switches, Toggle	MS 24615-24618  Tapping Screws Type “A” Phillips Recessed	MS 24619-24622  Tapping Screws Type “B” Phillips Recessed
	MS 24623-24626  Tapping Screws Type “BF” Phillips Recessed	MS 24627-24630  Tapping Screws Thread Cutting Type “F” Phillips Recessed	MS 24635-24638  Tapping Screws Type “A” Slotted	MS 24639-24642  Tapping Screws Type “B” Slotted	MS 24643-24646  Tapping Screws Type “BF” Slotted
MS 24647-24650  Tapping Screws Thread Cutting Type “F” Slotted	MS 24661/2  Rivet, Blind, Drive, CTSK. & Universal	MS 24667-24672  Screw, Cap Socket Head, Flat Countersunk, 82°		MS 24673-24678  Screw, Cap, Socket Head, Hexagon, Drilled 1960 Series	
MS 24689  Nut, Plain Hexagon Track	MS 24692  Pin, Tapered Plain	MS 25081  Washer Key	MS 25087  Screw, Externally Relieved Body	MS 25089  Switch, Push, Moistureproof	



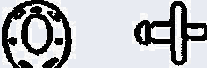
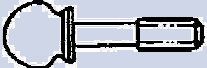
MS 25221 ~ MS 28741	MS 25221-25225  Guard, 2 or 3 Position Toggle Switch	MS 25226-25227  Bus, Terminal Board; Strip	MS 25231-25243  Lamps, Incandescent	MS 25256-25258  Light, Indicators
	MS 25281  Clamp, Loop-Plastic	MS 25301  Boot, Circuit Breaker	MS 25311-25312  Ferrule, Shield Grounding and Tool	MS 25397  Light Indicator
MS 25440  Washer, Flat	MS 27039  Pan Head, Machine Screw Phillips	MS 27040  Nuts, Plain Square	MS 27051  Washer, Slotted	MS 27111-27112  Washer, Key-Flat; Key-Bent
MS 27120  Clevis, Rod End Turn Buckle		MS 27128  Nut, Plain, Welding	MS 27129  Washer, Finishing Countersunk 80° -82°	MS 27130-27131  Nut, Blind Rivet
MS 27183  Washer, Flat Round	MS 27186-27187  Plug, End, Seal	MS 27950-27951  Bolt, Eye; Stud Welding Turnbuckle	MS 27952  Nut, Plain Hexagon Left Hand	MS 27953-27954  Bolt, Hook; Body; Turn-Buckle
MS 27955  Nut, Plain Round, Spanner	MS 27956-27964  Hinge, Butt	MS 27965-27973  Hasp-Hinged	MS 27974  Turnbuckles Assemblies	
MS 27975-27976  Clevis, Rod End	MS 27977-86  Fasteners, Snap Styles 1, 1A, 1B, 2, 2A, 3, 4, 5, 6, 7	MS 27990  Pin, Straight Hinge	MS 28720  Filter, Aircraft Hydraulic	MS 28741  Hose Assembly

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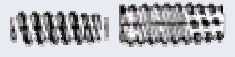
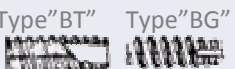
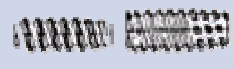
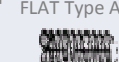
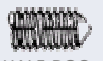
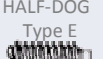
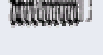
MS 35671 ~ MS 172370	MS 35671-35679  Grooved Pin, Headless	MS 35690-35691  Nut, Plain Hexagon Finished, Jam		MS 35743-35745  Rivets
	MS 35751-35754  Carriage Bolt, Round Head; Truss Head; Flat Elevator; Plow	MS 35756  Key, Woodruff	MS 35763-35764  Bolt, Self-Locking Hexagon Head	MS 35790  Washer Lock 100° CTSK External Tooth
MS 35914  Insert, Screw Thread, Self Tapping	MS 39081  Nut, Coupling Electrical, Plain Hex	MS 39086  Pins, Spring, Tubular, Coiled	MS 45901  Washer, Flat Electrical	MS 45904  Washer, Lock Internal – External Tooth
MS 45905  Nut, Plain Hexagon Left Hand	MS 51017-51052  Set Screws Hexagon Socket	MS 51053  Set Screws Spline Socket	MS 51054  SetScrew – Square Head Cup Point	MS 51056-51060  Set Screw - Slotted
MS 51093-51102  Screw, Cap Hexagon Head Drilled Head	MS 51103-51112  Screw, Cap Hexagon Head Drilled Head	MS 51923  Pins, Spring, Tubular, Coiled	MS 63040  Washer, Flat	MS 75013  Pins, Straight Headless
MS 122026-122075  Washer, Lock Spring	MS 122076-122275  Insert, Helical Coil	MS 122900-122939  Clamp Loop (Heat Resistant)	MS 124651-124850  Insert, Helical Coil	MS 134351-134440  Ball
MS 171401-171900  Pin, Spring	MS 172201-172235  Washer, Key Bearing, Retaining	MS 172236-172270  Nut, Spanner Bearing, Retaining	MS 172271-172320  Washer, Key	MS 172321-172370  Nut, Spanner Aeronautical



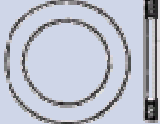
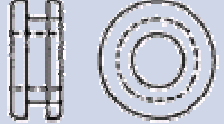
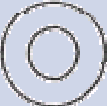
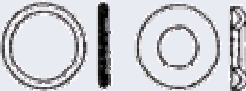
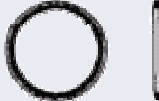
AN 3 ~ AN 373	AN 3-20  Aircraft Bolts	AN 21-36  Clevis Bolts	AN 42-49  Bolt, Eye	AN 73-81  Machine Bolt, Aircraft
	AN 100  Thimble Wire Cable	AN 115-116  Shackles, Wire Rope and Anchor	AN 130-170  Turnbuckles, Assemblies and Parts	AN 173-186  Bolt, Aircraft Close Tolerance
AN 200-209  Bearings, Ball Airframe	AN 210  Pulley, Anti-Friction	AN 216  Balls, Metal	AN 220  Flight Control Pulley	AN 227  Plate Poststud Fasteners, Snap and Curtain
AN 250-253  Hinges, Assemblies & Parts	AN 254  Screw, Thumb Necked	AN 256  Nut, Self-locking Right Angle Plate	AN 257  Hinge-Continuous	AN 286  Fittings, Lubrication
AN 310  Nut, Airframe Castellated	AN 315  Nut, Plain Airframe	AN 316  Nut, Check	ANA 320  Nut, Castle Shear	AN 335  Nut, Plain Hex; Non-Structural
AN 340  Nut, Machine Screw, Hexagon Coarse Thread	AN 341  Nut, Plain Hexagon, Electrical	AN 345  Nut, Machine Screw, Hexagon Fine Thread	AN 350  Nut, Wing	AN 355  Nut, Engine Slotted
AN 360  Nut, Plain Engine	AN 361-362  Nut, Self-locking, Plate	AN 363  Nut, Self-locking, 550° F	AN 364  Nut, Self-locking, Thin, 250° F	AN 365  Nut, Self-locking, 250° F
AN 366-373  Nut, Plate, Self-locking				

AN (Air Force-Navy Aeronautical)



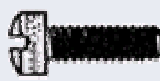
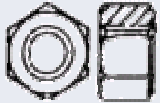
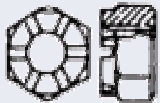
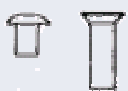
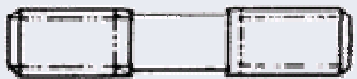
AN 380 ~ AN 669	AN380-381  Cotter Pin	AN385  Threaded Taper pin	AN386  Threaded Taper pin	AN392-406  Pins, Flat Head, Clevis
	AN415-416  Pins, Lock, Retaining	AN420-470  Rivet	AN450  Rivet, Tubular	AN481-486  Clevis, Rod End -Adjusting
AN490  Rod, Threaded, Aircraft	AN500-501  Machine Screw, Fillister Head Slotted-Coarse Fine	AN502-503  Machine Screw, Fillister Head Drilled; Slotted - Coarse and Fine	AN504  Round Head Tapping Screw, Type "F" – Coarse and Fine	AN 505/510  82° Flat Head Machine Screw, Coarse and Fine
AN 506  82° Flat Head Tapping Screws, Type "F" – Coarse and Fine	AN 507  100° Flat Head Machine Screw, Coarse and Fine	AN 508  Screw, Round Head, Machine (Electrical)	AN 509  100° Structural Flat Head – Machine Screw, Coarse and Fine	AN 515/520  Round Head Machine Screw, Coarse and Fine
AN 525  Washer Head Machine Screw Coarse and Fine	AN 525  Washer Head Machine Screw Coarse and Fine	AN 526  Truss Head Machine Screw Coarse and Fine	AN 530  Round Head Tapping Screw, Type "B"(Z)	Type "B"(Z) Type "BF"  Type "BT" Type "BG" 
AN 531  82° Flat Head Tapping Screw Type "B"(Z)	Type "B"(Z) Type "BF"  Type "BT" Type "BG" 	AN 535  Round Head Drive Screw Type "U" Point	AN 545  Round Head Wood Screw	AN 550  82° Flat Head Wood Screw
AN 560  Square Head Set Screw	AN565 Hex Socket  Slotted  Spline  Round Head Drive Screw Type "U" Point	FLAT Type A  CONE Type B  Full DOG Type C  HALF-DOG  Type E  OVAL Type F  CUP Type D 	AN658-669  Terminals, Wire Rope and Electrical	



AN 735 ~ AN 105800		AN 735-742  The Rods	AN 735-742  Clamps	AN 753  Splice, Assembly and and Tip
AN 756-849  Fittings, Aircraft	AN 886-904  Gaskets, Fittings and Couplings	AN 905-909  Plugs	AN 910-929  Fittings, Aircraft	AN 931  Grommets
AN 935  Washer, Lock, Spring Split	AN936  Type A Internal Type B External Type C 82° Ctsk. Type D 100° Ctsk. Tooth Lock Washer		AN 944  Fittings, Lubrication	AN950/955  Washer, Ball Socket/Ball Seat
AN960-975  Washer, Flat	AN 995  Lock Wire	AN 3054-3066  Nut, Coupling Conduit	AN3195  Fastener, Snapslide	
AN 3196-3199  Style I Style II Style III Style IV Fastener, Snapslide		AN 6225-6230  Packing, "O" and "V" Ring	AN 6231  Scraper, Rod Hydraulic	AN 8013  Washer, Insulator
AN 101001-101900  Bolt, Hex Head .190-.750	AN 101901-102800  Bolt, Hex Head .190-.750	AN 102801-103700  Bolt, Drilled Hex Head .190-.750	AN 103701-104600  Bolt, Drilled Hex Head .190-.750	AN 104601-105401  Bolt, Hex Head, Drilled Shank .190-.750
AN 105501-106400  Bolt, Cres. Drilled Hex Head .190-.750	AN 106401-107300  Bolt, Cres. Drilled Hex Head .190-.750	AN 107301-108200  Bolt, Cres. Drilled Hex Head .190-.750	AN 115401-105600  Screw, Flat Fillister, .190-.375	AN 115601-105800  Screw, Flat Fillister, .190-.375

AN (Air Force-Navy Aeronautical)

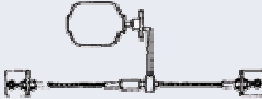
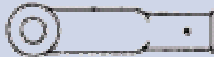
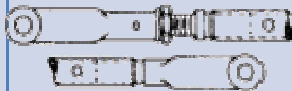
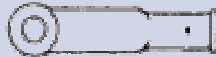
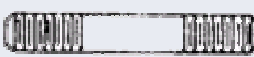


AN 115801 ~ AN 170900	AN 115801-116150  Screw, Flat Fillister .190-.375	AN 116901-117080  Screw, Oval Fillister Head .112-.164	AN 121501-121550  Nut, Plain	AN 121551-121600  Nut, Castle
	AN 121601-121925  Pin, Flat Head Clevis .125-.500	AN 122576-122600  Washer, Plain	AN 122676-122775  Pin, Dowel	AN 123020-123119  Gasket
	AN 123151-123750  Rivet, Solid Universal Head and 100° CTSK Head	AN 123851-124050  Seal, Packing "O" Ring	AN 124951-125550  Rivet, Solid Universal Head and 100° CTSK Head	AN 125551-125700  Rivet, Solid Universal Head
	AN 125951-30774  Studs-straight.250-.625	AN 150201-150400  Pin, Lock	AN 150401-150450  Nut-Hex, Check and Shear Slotted	AN 150501-170900  Stud-Stepped
				

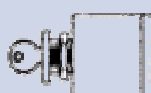
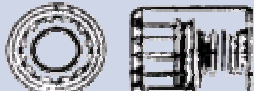
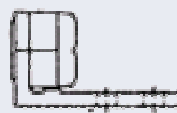
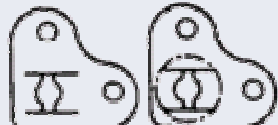
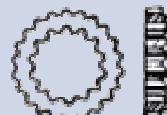
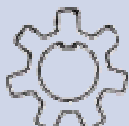
TUBE AND PIPE FITTINGS

AN 774 	AN 775 	AN 776 	AN 777 	AN 778 	AN 779 	AN 783 
AN 784 	AN 804 	AN 806 	AN 807 	AN 814 	AN 815 	AN 816 
AN 817 	AN 818 	AN 821 	AN 822 	AN 823 	AN 824 	AN 825 
AN 826 	AN 827 	AN 832 	AN 833 	AN 834 	AN 837 	AN 838 
AN 839 	AN 840 	AN 842 	AN 844 	AN 846 	AN 848 	AN 849 

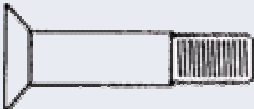
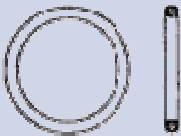
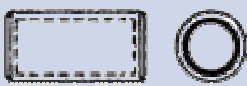
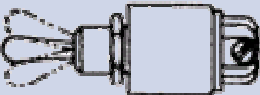
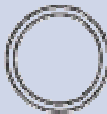
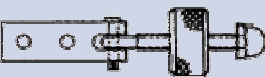
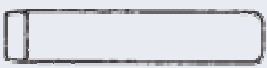
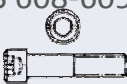
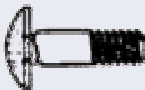
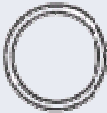
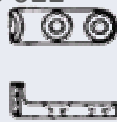


NAS 1 ~ NAS 330	NAS 1  100° Countersunk Rivet	NAS 2  Lubrication Fittings		NAS 4-5  Rod End
	NAS 12  Screws, Captive	NAS 15-16  Joint, Universal – Male and Female	NAS 21  Strip, Terminal Board	NAS 34-35  Pulley
	NAS 40-41  Hinge, Half Continuous; Pin Continuous	NAS 42-43  Spacer, Rivet; Screw and Bolt	NAS 44  Busbar Electrical	NAS 49  Fitting, Engine Cable Control
	NAS 50-51  Rings – Internal, External Retaining	NAS 67-69  Guide, Fastener Cowl Type	NAS 70  Washer, Flat	NAS 75-77  Bushing, Plain and Flanged, Press Fit
	NAS 91-93  Rod Assembly, Adjustable Clevis Ends	NAS 95-97  Rod Assembly Fixed and Adjustable Ends	NAS 98-100  Rod Assembly Adjustable Clevis Ends	NAS 103-118  Rod Assembly Adjustable Clevis Ends
NAS 119  Riveted Assembly	NAS 139-140  Studs, Coarse and Fine Thread	NAS 143  Washers, Countersunk and Plain	NAS 144-158  Bolt, Internal Wrenching	
NAS 170-171  Clevis, Engine Control Rod; For Welding	NAS 172-176  Bolt, Internal Wrenching	NAS 183-184  Studs Coarse and Fine Thread	NAS 185  Spacer, Split Screw and Bolt	
NAS 192  Post, Binding Terminal Board	NAS 200-203  Round Head and 100° Countersunk Machine Screws	NAS 220-227  Brazier Head Machine Screws	NAS 228-235  Brazier Head Machine Screw	
NAS 245-276  Fittings, Nipple, Unions, Elbows, Plugs	NAS 302-310 /312-320/322-330  Cable Assembly Swaged Type			

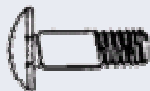
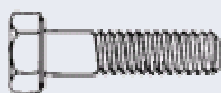
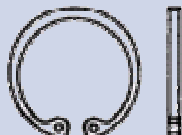
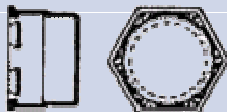
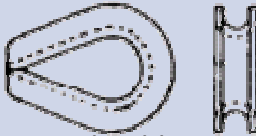
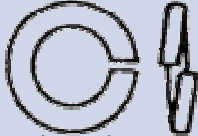
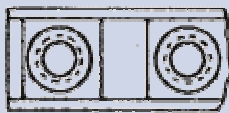
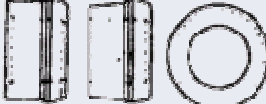
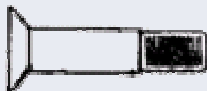
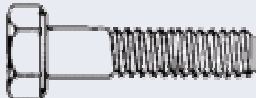


NAS 333 ~ NAS 493	NAS 333-340  100° Close Tolerance Bolt, High Strength Drilled and Undrilled	NAS 354-362  Control Rod, Tube Assembly	Rod Ends See AN 481-490 Rivets See Ms 20470 SUPERSEDES NAS 97, NAS 101, NAS 109, NAS 110, NAS 114, NAS 119	NAS 376-379  Pulley-Control Secondary, Flight, Heavy Duty
	NAS 382-383  Bushing-Pulley, Bearing	NAS 384-389  100° Oval Head 82° Oval Head Phillips Recessed	NAS 416-421  Flange-Connection, Gasket	NAS 423  Master and Ignition Switch
NAS 427  Pin, Pulley Guard	NAS 428  Bolt-Adjusting Crowned, Hexagon Head	NAS 429-430  Bearing-Sintered, Plain	NAS 431-432  Bearing-Ball, Rod End Type	NAS 434-435  Clamp, Loop Type, Sheet Metal Nut
NAS 436-437  Clamp-Harness Wire Bundle	NAS 442  Latch, Flush Type	NAS 443  Nut, Self-Locking Internal Wrenching	NAS 444-445  Nut, Double Lug, Anchor Type; Offset	NAS 446  Nut, Flat Type
NAS 447-448  Plate Nut, Self- Locking	NAS 449  Nut, Anchor Type	NAS 450  Nut Plate, Self- Locking	NAS 451  Plug, Button	NAS 452-453  Rivnut-100° CTSK. Head; Flat Head
NAS 454-455  Rivet, Blind	NAS 456-457  Ring Locking and Sleeve	NAS 460  Washer, Tab Type	NAS 463  Shim, Anchor Nut, Plain	NAS 464  Bolt, Shear Close Tolerance
NAS 476-478  Clamp-Cushion Lug Type; Conduit	NAS 479-482  Clip-Angle or Channel; Tubular; Fuse, Electrical	NAS 487-489  Nut-Instrument Mount; "J" Type; Latching Type	NAS 490-491  Shock Mount	NAS 492-493  Stud-Trimount; Stud



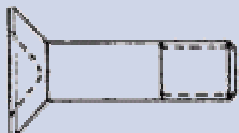
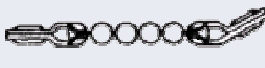
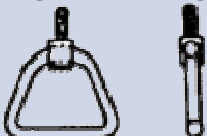
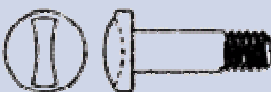
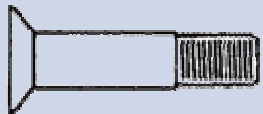
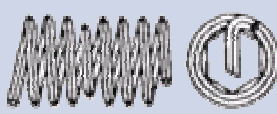
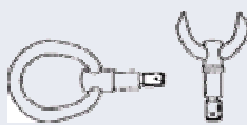
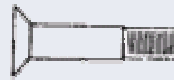
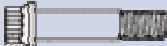
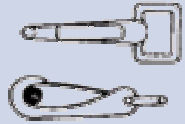
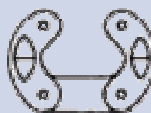
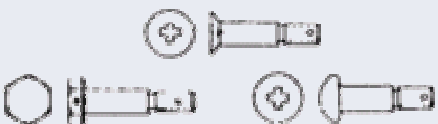
NAS 494 ~ NAS 622	NAS 494  Terminal-Ball Type Cable Flanged	NAS 495  Bolt, Internal Wrenching High Tensile	NAS 497  Fitting Lubrication	NAS 500  Shim-Anchor Nut, CTSK.
	NAS 501  Bolt, Hex Head Drilled and Undrilled	NAS 508  Rivet, Universal Head	NAS 509  Nut, Jam Drilled	NAS 510-511  Link Assembly, Cable Take-Up
NAS 514  100° Flat Head Full Threaded Machine Screw	NAS 516  Fitting Lubrication	NAS 517  100° Close Tolerance Machine Screw	NAS 530  Pulley, Secondary	NAS 532  Guard, Switch Toggle
NAS 534-536  Ring, Flexible; Washer; Adapter	NAS 537-538  Bushing, Plain	NAS 544-546  Switch, Toggle Single Pole; Nut, Mounting; Locking Ring	NAS 548  100° Flat Head Tapping Screw Type "B"	NAS 549  Washer, Flat
NAS 557  Grommet Split	NAS 558-559  Key, Square; Lock-Rod End	NAS 560  100° Structural Machine Screw, High Temperature Non-Magnetic	NAS 561  Pins-Spring Heavy Duty	NAS 563-572  Bolt, Full Thread Indented Head Drilled Head
NAS 573  Bolt, Full Thread Indented Head Drilled Head	NAS 574  Pin, Rear Mounting Electronic Equipment	NAS 577-578  Nut, Self-Locking Floating Barrel; Retainer	NAS 583-590  Bolt 100° Head "Hi-Torque," Close 160,000 PSI	NAS 600-606  Pan Head Machine Screw, Aircraft - Phillips Recessed
NAS 607  Pin, Headless Dowel	NAS 608-609  Screw, Hex Socket Cap; Plain and Self-Locking- Drilled Head 1936 Series	NAS 610-616  Pan Head Machine Screw	NAS 620  Washer Flat Reduced O.D.	NAS 622  Hook Support Electronic Equip. Clamp



NAS 623 ~ NAS 1097	NAS 623  Pan Head Machine Screw, Short Thread 160,000 PSI Phillips Recess	NAS 624-644  Bolt 12 Pt. External Wrenching 180,000 PSI	NAS 645-651  Fork and Eye Turn Buckles; Barrel, terminal, Turnbuckles, Cable and Clip, Locking	NAS 653-658  Hexagon Head Bolt, Close Tolerance Drilled Shank Optional
	NAS 662  100° Flat Head Machine Screw; Regular and Self-Locking	NAS 663-668  100° Flat Head Bolt, Close Tolerance	NAS 669-670  Ring, Retainer	NAS 671  Nut, Plain Hexagon - Small Pattern
NAS 679  Nut, Self-Locking Low Height 550° F, 800° F	NAS 680-687  Nut, Plate Self-Locking 550° F, 800° F	NAS 688-695  Nut, Self-Locking Gang Channel		NAS 696-698  Nut, Plate Self-Locking 550° F, 800° F
NAS 704-709  Terminal, Stud Turret Types	NAS 720  Pan Head Screw; Assembled Lock Washer and Flat Washer; Slotted	NAS 721-725  Miniature Screws Slotted	NAS 810-820  Cap Protectors Fittings	NAS 945-947  Cap Protectors, Fitting
NAS 1003-1020  Bolt, Machine Hexagon Head Drilled Head/Drilled Shank Undrilled	NAS 1021-1022  Nut, Self-Locking Full and Shear 250° F, 450° F, 500° F, 800° F	NAS 1023-1033  Nut, Self-Locking Plate Types 250° F, 450° F, 800° F	NAS 1034-1041  Nut, Self-Locking Gang Channel 250° F, 550° F, 800° F	NAS 1042-1044  Shackle Anchor
NAS 1045  Thimble-Heavy (Wire Cable)	NAS 1046-1053  Clip-Wire Rope; Turn Buckle; Chain-Welded; Slinglink, Hooks; Eye Bolt	NAS 1061  Lockwasher High-Temperature	NAS 1067-1068  Nut, Plate Self-Locking 500° F, 800° F	NAS 1071-1073  Switch Toggle; and Guards
NAS 1080  Collar Lockbolt	NAS 1081  Set Screw, Self-Locking Hex Socket; 250° F	NAS 1083-1088  Bolt 100° Flat Head, Close Tolerance	NAS 1096  Screw-Hex Head, Recessed	NAS 1097  Rivet-Solid 100° Flush Shear

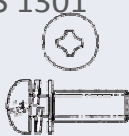
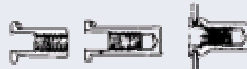
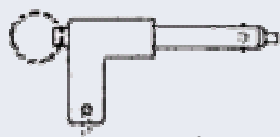
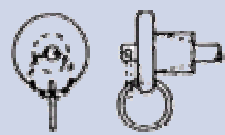
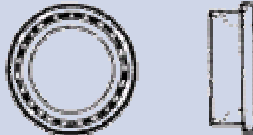
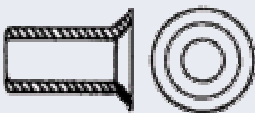
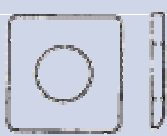
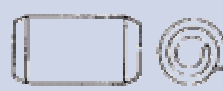
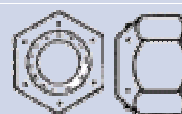
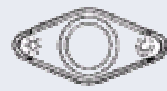
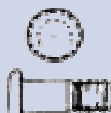
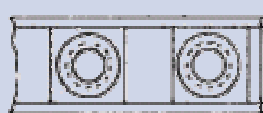
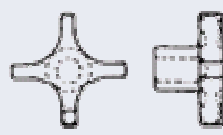
NAS (National Aerospace Standard)



NAS 1098 ~ NAS 1300	NAS 1098  Nut, Tube Fitting	NAS 1100-1102  Screw, Torq-Set Full Thread	NAS 1103-1120  Bolt, Hex Head Close Tolerance 160,000 psi Drilled Shank/Undrilled	NAS 1121-1128 NAS 1131-1138  Bolt, Torq-Set
	NAS 1141-1148 NAS 1151-1158  Bolt, Torq-Set	NAS 1161-1168  Bolt, Self-Locking Torq-Set	NAS 1171-1178 NAS 1181-1188  Bolt, Self-Locking Torq-Set	NAS 1189-1192  Screw, Self-Locking Full Thread, 250° Phillips and Torq-Set
NAS 1195  Shim, Anchor Nut; Miniature	NAS 1197  Washer, Flat	NAS 1198-1200  Rivet, Solid	NAS 1201  Bead Chain Components and Assembly	NAS 1202-1210  Bolt, 100° Close Tolerance 160,000 PSI Drilled/Undrilled Shank
NAS 1211-1213  Fitting, Tie Down Strap End; Strap	NAS 1216-1218  Pan Head "Hi- Torque" Bolt	NAS 1219-1221  100° CTSK. "Hi- Torque" Bolt	NAS1222  Insert, Helical Coil, Self-Locking	NAS 1223-1235  Bolt, Self-Locking Hex Head, 250° F
NAS 1243-1250  Bolt, 100° Head "Hi-Torque" 160,000 PSI	NAS 1251  Eye Bolt-Swivel	NAS 1252  Washer Flat	NAS 1253-1260  Bolt, 100° Head "Hi-Torque" 160,000PSI	NAS 1261-1265 NAS 1266-1270  Bolt, Hex Head Close Tolerance
NAS 1271-1280  Bolt, 12 Pt. External Wrenching	NAS 1281-1282  Hook Snap Spring	NAS 1284-1285  Buckle, Web Strap; Safety Hook	NAS 1286  Connecting Link	NAS 1287-1288  Nut, Hex Self- Locking; Nut and Washer Shear Pin
NAS 1291  Nut, Self-Locking Hexagonal-Low Height, 450° F, 800° F	NAS 1292-1296  Pin-Threaded Shear-100° CTSK.	NAS 1297-1299  Bolt, Shoulder		NAS 1300  Thumb Screw Drilled/Undrilled

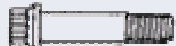
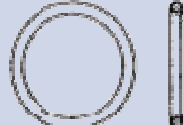
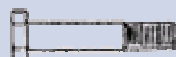
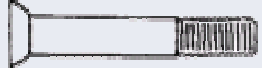
NAS (National Aerospace Standard)



NAS 1301 ~ NAS 1582	NAS 1301  Screw, Pan Head, Assembled Washers Phillips Recess	NAS 1303-1320  Bolt, hex Head Close Tolerance 160,000 PSI Drilled/Undrilled	NAS 1329-1330  Nut-Blind Rivet- Internal Thread	NAS 1332-1346  Pin, Quick Release
	NAS 1351-1352  Socket Cap Screw- Hex 1960 Series Drilled/Undrilled	NAS 1353-1366  Pin, Quick Release	NAS 1368  Grommet Flip- Type	NAS 1380-1381  Stud, Welding
NAS 1386  Eyelet, Electrical	NAS 1393  Screw, 82° Flat Head "Torq-Set"	NAS 1394-1395  Insert-Threaded Metal, Lt. Wght. Regular and Self Locking	NAS 1397  Clamp-Loop	NAS 1398-1400  Rivets-Blind
NAS 1401  Washer, Radius	NAS 1402-1406  Pan Head Aircraft Screw Phillips Recess	NAS 1407  Pin-Spring, Coiled	NAS 1408-1409  Nut, Self-Locking	NAS 1414-1422 NAS 1424-1432  Lockbolt-Shear 100° Head, Flat Head
NAS 1431  Rod, Continuous Thread	NAS 1436-1442 NAS 1446-1452  Lockbolt, Shear 100° Head; Protruding Head	NAS 1454  Rod, Continuous Threaded	NAS 1463-1464  Clip, Spring	NAS 1473  Nut, Cap, Self-Sealing, Self-Locking, Two Lug Floating, Plate
NAS 1493  Lock Nut Bearing, Retaining	NAS 1496-1502  Lock Bolt- Protruding Head	NAS 1503-1510  Bolt, 100° Head, "Hi-Torque"	NAS 1512-1513  Nut, Self-Locking Gang Channel	NAS 1515  Washers
NAS 1516-1522 NAS 1525-1532  Lock Bolt, 100° Head; Protruding Head	NAS 1535-1542 NAS 1546-1552  Lock Bolt, 100° Head; Protruding Head	NAS 1553  Knobs, Hand	NAS 1578-1579  Bolt, Pan Head, 1200° F 185,000 PSI	NAS 1580-1582  Bolt, 100° Flush Head, 1200° F 185,000 PSI

NAS (National Aerospace Standard)



NAS 1583 ~ NAS 3305	NAS 1583-1585  Pin, Hi-Shear 1200° F; Drilled/Undrilled	NAS 1586  Bolt, 12 Pt. Ext. Wrenching 1200° F; Drilled/Undrilled	NAS 1587  Washer 1200° F	NAS 1588  Bolt, Shear Hex Head 1200° F
	NAS 1593-1596  Packing "O" Ring Preformed	NAS 1603-1610  Bolt, 100° Head Close Tolerance 160,000 PSI	NAS 1611-1613  Packing "O" Ring Preformed	NAS 1620-1628 NAS 1630-1634  Screw-Torq-Set 100° Flat Head
NAS 1635  Screw-Pan Head Phillips Recess Regular and Self- Locking	NAS 1703-1710  Bolt, 100° Head Close Tolerance 160,000 PSI	NAS 1806-1816 NAS 1906-1916  Rivet, Hi-Shear	NAS 2803-2810  Bolt, 100° Head Torq-Set 180,000 PSI	NAS 2903-2920 NAS 3003-3020  Hex Head Bolt, Close Tolerance, 160,000 PSI
NAS 3103-3110 NAS 3203-3210 NAS 3303-3305  Bolt; Hook				

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