

BRAVE INDUSTRIAL FASTENER, INC.

687 N 16TH STREET

OTSEGO, MI 49078

269-694-9491 OR 1-800-344-1228

FAX : 269-694-9494

HUGE ASSORTMENT OF FASTENERS, TOOLS,
WELDING SUPPLIES, HYDRAULIC HOSES &
FITTINGS, PIPE & STAINLESS STEEL

BRAVE INDUSTRIAL FASTENER, INC.
OWNER JOE HALL



WWW.BRAVEFASTENER.COM



MONDAY - FRIDAY: 8:00AM - 5:00PM SATURDAY: 9:00AM - 12:00PM SUNDAY: CLOSED

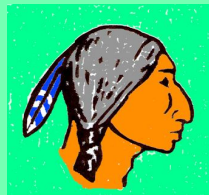


BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

Table of Contents

ABRASIVES.....	1
GRINDING DISC	1
FLAP DISC	1
ROLOC STRIP DISC.....	5
ROLOC BRISTLE DISC	5
ROLOC DISC HOLDER	5
FABRIC ABRASIVE ROLL	5
CLOTH UTILITY ROLL.....	5
NARROW BELTS.....	6
PREMIUM BELTS	6
PREDATOR CLOTH BELT	6
NO LAP BANDS ALUMINUM OXIDE RESIN BOND	7
SOLID RUBBER DRUM	8
CUT-OFF WHEEL	8
GRINDING WHEELS	9
BRIGHT BUFF STANDARD QUICK-LOK SURFACE CONDITIONING DISCS	10
TYPE S	10
TYPE R	10
BRIGHT BUFF HAND PADS.....	10
5" RUBBER SANDING BLOCK	10
BRUSHES.....	11
CUP BRUSH.....	11
END BRUSH.....	11
NYLON FILL TUBE BRUSH	11
CONDENSER TUBE BRUSH.....	11
FLUE & BROILER TUBE BRUSH	11
MINI WIRE BRUSH	12
WIRE BRUSH.....	12
WIRE WHEEL BRUSH.....	12
POWER & HAND TUBE BRUSH	12
WIRE HANDLE COPPER FITTING BRUSH.....	13
ACID BRUSH.....	13
ECONOMY POLY-CHIP BRUSH	13
DREMEL BRISTLE BRUSH	13
BATTERY POST & TERMINAL BRUSH	14
PARTS CLEANING BRUSH.....	14
WOOD HANDLE	14
WELDER BRUSHES.....	14
HYDRAULIC ADAPTERS.....	15
PIPE THREAD.....	15
MALE PIPE TO FEMALE PIPE REDUCER BUSHING	15
MALE PIPE TO FEMALE PIPE.....	15
MALE PIPE TO FEMALE PIPE 90° STREET ELBOW	16
MALE PIPE TO FEMALE PIPE SWIVEL ADAPTER.....	16
FEMALE PIPE TEE.....	17
FEMALE SWIVEL-MALE PIPE TEE.....	17
FEMALE PIPE-MALE BRANCH TEE	17
FEMALE PIPE ELBOW 45°	18
MALE PIPE TO FEMALE PIPE STREET ELBOW 45°.....	18
MALE PIPE TO FEMALE JIC SWIVEL.....	18
JIC	19
MALE JIC UNION	19
MALE JIC TEE.....	19
MALE JIC TO FEMALE JIC SWIVEL	19



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

JIC TO PIPE	20
MALE JIC TO MALE PIPE 90° ELBOW	20
MALE JIC TO MALE JIC ON RUN TO MALE PIPE BRANCH TEE	20
O-RING BOSS TO PIPE	21
O-RING MALE TO FEMALE PIPE.....	21
O-RING MALE TO FEMALE PIPE SWIVEL.....	21
O-RING MALE TO MALE PIPE	21
O-RING MALE TO FEMALE PIPE SWIVEL 45°.....	22
O-RING MALE TO FEMALE PIPE SWIVEL 90°.....	22
O-RING MALE PLUG	22
O-RING BOSS TO JIC	23
O-RING MALE TO MALE JIC	23
O-RING MALE TO FEMALE JIC SWIVEL.....	23
O-RING MALE TO MALE JIC 45°.....	24
O-RING MALE TO MALE JIC 90°.....	24
METRIC	25
BRITISH STANDARD PIPE THREAD ADAPTERS.....	25
MALE BRITISH STANDARD PIPE PARALLEL TO NPTF MALE/FEMALE	25
AIR BRAKE.....	26
BRASS FITTINGS FOR COPPER TUBING.....	26
BULKHEAD CONNECTOR	26
NYLON AIR BRAKE TUBING D.O.T. APPROVED	26
BRASS FITTINGS FOR NYLON TUBING	27
STAINLESS STEEL INSERT.....	27
SLEEVE	27
NUT	27
UNION.....	27
BULKHEAD UNION	27
FEMALE CONNECTOR	28
MALE CONNECTOR	28
FEMALE ELBOW.....	29
MALE RUN TEE.....	29
MALE BRANCH TEE	29
45° MALE ELBOW	29
AIR BRAKE HOSE	30
FEMALE SWIVEL CONNECTORS.....	30
ABS ADAPTERS	30
CONNECTOR WITH SPRING GUARD	30
CONNECTOR	30
D.O.T. PLUG-IN BRASS FITTINGS FOR NYLON TUBING	31
SWIVEL MALE BRANCH TEE	31
SWIVEL FEMALE BRANCH TEE.....	31
BULKHEAD UNION	31
BULKHEAD UNION COMPRESSION TO PLUG-IN	31
FEMALE BULKHEAD UNION.....	31
SHIFTER FITTINGS.....	32
BRASS FITTINGS FOR NYLON TUBING.....	32
ASSEMBLED AIR BRAKE HOSES	32
HOSE MENDER	32
BRASS HOSE BARB.....	33
MALE PIPE	33
FEMALE PIPE.....	33
FEMALE PIPE PUSH-ON	33
MALE PIPE PUSH-ON.....	33
SAE RIGID MALE PUSH-ON.....	33
SAE FEMALE SWIVEL PUSH-ON	34
SAE 37° (JIC) FEMALE SWIVEL PUSH-ON.....	34



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

RIGID INVERTED FEMALE PUSH-ON.....	34
INVERTED MALE SWIVEL PUSH-ON.....	34
MALE ELBOW PUSH-ON.....	34
NYLON AIR HOSE W/PVC COATING	34
POLYURETHANE RECOIL AIR HOSE.....	35
NYLON RECOIL AIR HOSE.....	35
RETRACTABLE AIR HOSE	35
ANAEROBICS	36
GREEN BOLT LOCKER.....	36
RED BOLT LOCKER.....	36
VIBRA-TITE.....	36
VIBRA-TITE.....	36
SUPER GLUE.....	36
PARKER O-LUBE.....	36
ANCHORING DEVICES	38
CONICAL PLASTIC ANCHORS.....	38
CONICAL PLASTIC ANCHOR KITS.....	38
SPRING WING TOGGLE HEADS	38
ROUND HEAD SPRING WING TOGGLE BOLTS STEEL ZINC PLATED	39
LAG SCREW EXPANSION SHIELDS ZINC ALLOY.....	40
MACHINE SCREW ANCHORS LEAD	40
CONCRETE ANCHOR L BOLTS STEEL ZINC PLATED	40
STUD BOLT ANCHORS ZINC PLATED	41
DRIVE RIVETS.....	42
TOGGLERS FOR HOLLOW WALLS.....	43
SNAP TOGGLE.....	43
NYLON ANCHORS	43
PLASTIC TRUSS TAP-IT	43
SHEET METAL SCREWS.....	44
PAN HEAD.....	44
HEX HEAD.....	44
PLASTIC TRAY ASSORTMENTS.....	44
PAN HEAD.....	44
HEX HEAD.....	44
BRASS FITTINGS	45
SAE FLARE	45
INVERTED FLARE	45
COMPRESSION	45
PIPE.....	45
NYLON AIR BRAKE.....	45
D.O.T. PLUG-IN.....	45
GRADE 5 HEX HEADS COARSE & FINE THREADS.....	46
SHELVES AND BINS	47
5 SHELF UNIT 36"X12"X7FT	47
36" X 12" INDIVIDUAL SHELVES.....	47
COMPLETE SHELF WITH BINS.....	47
TOOL BENCH.....	47
SHELF BINS	47
METAL TRAY ASSORTMENTS.....	48
LARGE METAL TRAYS	48
SMALL METAL TRAYS	48
6 HORIZONTAL COMPARTMENTS METAL TRAY	48
LARGE ADJUSTABLE TRAY	48
PLASTIC DIVIDERS FOR SCOOP TRAYS	48
PLASTIC BOXES.....	48
CLEAR POLYPROPYLENE TRAYS	48
5 DRAWER METAL RACK FOR POLYPROPYLENE TRAYS	48
METRIC CAP SCREW	49



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

PHILLIPS PAN HEAD SHEET METAL SCREWS	50
HAIR PINS	50
GREASE FITTINGS.....	51
SLOTTED ROUND HEAD MACHINE SCREWS.....	51
CRIMPABLE BATTERY TERMINAL KITS IN LARGE METAL TRAYS.....	52
CRIMPABLE BATTERY TERMINAL KIT IN LARGE METAL TRAY	53
COPPER LUGS	53
FINE THREAD SET SCREWS IN LARGE METAL TRAY.....	53
O-RING TRAY ASSORTMENTS.....	54
O-RING METRIC ASSORTMENT IN A MOLDED CASE.....	54
PLASTIC TRAY.....	54
KEY STOCK & THREADED ROD RACKS.....	55
KEY STOCK RACK.....	55
THREADED ROD RACK	55
18 DRAWER CABINET	55
METAL DIVIDERS FOR 18 DRAWER CABINET.....	55
METAL RACK ASSORTMENTS	56
ROUND STOCK ASSORTMENT W/RACK.....	56
LARGE SQUARE KEY ASSORTMENT W/RACK.....	56
SMALL SQUARE KEY ASSORTMENT W/RACK	56
ROUND KEY STOCK ASSORTMENT W/RACK.....	56
USS LOW CARBON THREADED ROD ASSORTMENT	56
SAE LOW CARBON THREADED ROD ASSORTMENT	56
USS ALLOY THREADED ROD ASSORTMENT	56
BRASS FITTINGS	57
SAE FLARE	57
INVERTED FLARE	57
COMPRESSION	57
PIPE	57
NYLON AIR BRAKE.....	57
D.O.T. PLUG-IN.....	57
ADJUSTABLE YOKE ENDS	58
BALL JOINT ROD ENDS.....	58
BATTERIES.....	59
ALKALINE BATTERIES.....	59
BATTERY CABLE	60
WIRE LOOM.....	60
BLACK NYLON SPLIT CONVOLUTED LOOM	60
BLACK SPIRAL WRAP LOOM	60
2-TUBE CUSHIONED CABLE CLAMPS	60
LOOM CLIPS.....	61
STICK ON LOOM CLIPS	61
LIGHT DUTY METAL LOOM CLIPS.....	61
HEAVY DUTY METAL LOOM CLIPS	61
NYLON LOOM CLIPS-13/64 HOLE.....	61
BATTERY WIRE & TERMINALS	62
PLASTIC COATED BATTERY/STARTER CABLE	62
BUTT CONNECTORS.....	62
SOLDER RING INSIDE OF HEAT SHRINK TUBE.....	62
SIZE OF SHRINK TUBE TO ORDER FOR VARIOUS SIZE WIRE	62
CRIMPABLE	63
STRAIGHT CLAMP	63
FLAG BATTERY TERMINAL	63
TEE BATTERY TERMINAL	63
3/8-16 BATTERY POST NUT.....	63
SIDE POST BATTERY BOLT	63
SINGLE STACKABLE TERMINALS.....	64



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

DOUBLE STACKABLE TERMINALS	64
COPPER LUGS.....	64
HEAVY DUTY COPPER LUG TIN PLATED	65
LARGE GAUGE BUTT CONNECTORS	65
UNINSULATED, TIN PLATED	65
MAGNA LUGS.....	66
UNIVERSAL BATTERY TERMINALS	67
BATTERY BOLT AND NUT	67
CABLE CLAMPS 200 AMP	67
CABLE CLAMPS 500 AMP	67
CABLE CLAMPS 600 AMP	67
STUD BATTERY HARNESS.....	67
BATTERY POST & TERMINAL CLEANER.....	67
BINS.....	68
COMPARTMENT BIN	68
BASE FOR 35" CABINETS	68
BIN LABELS	68
BLIND RIVETS	69
ALUMINUM RIVET BODY - ALUMINUM MANDREL.....	69
ALUMINUM RIVET BODY - ALUMINUM MANDREL CON'T.....	70
ALUMINUM RIVET BODY - STEEL MANDREL.....	71
ALUMINUM RIVET BODY - STEEL MANDREL CON'T.....	72
STAINLESS STEEL RIVET BODY - STEEL MANDREL	73
STAINLESS STEEL RIVET BODY - STEEL MANDREL CON'T.....	74
STEEL RIVET BODY - STEEL MANDREL	75
BACK-UP WASHERS	76
STEEL SQUARE WASHERS	76
ROUND WASHERS.....	76
NUTS.....	77
ALUMINUM.....	77
STEEL ZINC PLATED	77
BOLTS	78
PLOW & CARRIAGE.....	78
CLIPPED HEAD.....	78
HEAT TREATED MEDIUM CARBON STEEL ZINC PLATED COARSE THREADS	78
HEAT TREATED STEEL COARSE THREAD	79
CARRIAGE BOLTS STAINLESS STEEL	79
CARRIAGE BOLTS GRADE 2 STEEL ZINC PLATED.....	80
SHAKER SCREEN BOLTS GRADE 5	81
ELEVATOR BOLTS STEEL ZINC PLATED.....	81
FLANGE BOLTS.....	82
HEAT TREATED STEEL. 150,000 P.S.I. TENSILE STRENGTH	82
LAG SCREWS.....	83
STEEL ZINC PLATED	83
STAINLESS STEEL	83
METRIC HEX HEAD.....	84
CAP SCREWS COARSE THREAD STAINLESS.....	84
GRADE 8.8 STEEL COMPARABLE TO SAE GRADE 5.....	85
GRADE 10.9 STEEL ZINC PLATED	86
JIS HEX CAP SCREW, STEEL, ZINC PLATED, GRADE 8.8.....	87
JIS NUTS CLASS 8	87
JIS BOLT ASSORTMENT	87
METRIC FLANGE BOLTS	87
STAINLESS STEEL HEX CAP SCREWS.....	88
STAINLESS STEEL HEX CAP SCREWS CON'T	89
SHAKER SCREEN BOLTS	90
GRADE 5	90



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

ELEVATOR BOLTS STEEL ZINC PLATED	90
SHOULDER BOLTS	91
HEAT TREATED ALLOY STEEL.....	91
BRASS FITTINGS	92
45° FLARED FITTINGS.....	92
CAP	92
SAE FEMALE FLARE TO MALE PIPE THREAD ADAPTER	92
INVERTED FLARED FITTINGS.....	93
BRASS NUT.....	93
STEEL NUT	93
INVERTED FLARE PLUGS	93
UNION TUBE TO TUBE	93
MALE CONN. TUBE TO MALE PIPE	94
UNION TEE TUBE TO TUBE TO TUBE	94
45° ELBOW TUBE TO MALE PIPE.....	94
MALE ELBOW TUBE TO MALE PIPE	94
BRAKE ADAPTERS	95
INVERTED FLARE ADAPTERS.....	95
METRIC ADAPTERS.....	95
UNION FOR IMPORT VEHICLES.....	95
COMPRESSION TUBE FITTINGS.....	96
SLEEVE	96
NUT	96
UNION.....	96
BRASS INSERT	96
MALE CONNECTOR TUBE TO MALE PIPE	97
UNION TEE TUBE TO TUBE TO TUBE	97
UNION ELBOW	97
90° MALE ELBOW	98
COMPRESSION FITTINGS ASSORTMENTS	98
SAE FLARE FITTINGS.....	99
INVERTED FLARE FITTINGS.....	99
PIPE FITTINGS	99
AIR BRAKE FITTINGS FOR NYLON TUBE.....	99
AIR BRAKE FITTINGS FOR COPPER TUBE.....	99
PIPE FITTINGS	100
FEMALE PIPE TO MALE PIPE ADAPTER.....	100
FEMALE PIPE TO FEMALE PIPE 90° ELBOW	100
HEX REDUCING NIPPLE.....	100
FEMALE PIPE TO MALE PIPE 90° STREET ELBOW	100
FEMALE PIPE TEE.....	100
RUN TEE	100
MALE BRANCH TEE	101
FEMALE PIPE TO MALE PIPE 45°STREET ELBOW	101
HOSE MENDER	101
DOMESTIC BALL VALVES	101
BALL VALVES	101
SINTERED BRONZE MUFFLER.....	101
BREATHER VENT	101
NUTS	102
METRIC NYLON LOCK NUTS	102
METRIC ALL METAL LOCK NUTS	102
METRIC ALL METAL LOCK NUTS	102
STAINLESS STEEL METRIC HEX NUTS.....	102
WOOD SCREWS.....	103
SLOTTED FLAT HEAD BRASS	103
PHILLIPS FLAT HEAD BRASS	103



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

BULBS	104
ROUGH SERVICE BULBS	104
TUFF SKIN BULBS	104
SMALL AUTOMOTIVE BULBS	104
CAP SCREWS	105
BUTTON HEAD SOCKET	105
ALLOY STEEL PLAIN FINISH	105
STAINLESS STEEL	106
FLAT SOCKET	107
ALLOY STEEL PLAIN FINISH	107
ALLOY STEEL-PLAIN FINISH CON'T	108
STAINLESS STEEL	109
GRADE 5 HEX HEAD CAP SCREW	110
COARSE THREADS	110
LENGTH	110
GRADE 5 HEX HEAD CAP SCREW CON'T	111
COARSE THREADS	111
GRADE 5 HEX HEAD CAP SCREW CON'T	112
FINE THREADS	112
GRADE 5 HEX HEAD CAP SCREW CON'T	113
FINE THREADS	113
GRADE 8 HEX HEAD CAP SCREW	114
COARSE THREAD	114
COARSE THREAD CON'T	115
COARSE THREAD CON'T	116
GRADE 8 FULL THREAD TAP BOLTS	116
FINE THREAD PLAIN FINISH	117
GRADE 8 HEX NUT PLAIN	117
GRADE 8 NYLON LOCK NUT	117
PLAIN	117
GRADE 8 FLAT WASHER	117
PLAIN FINISH	117
FINE THREAD	118
FINE THREAD CON'T	119
METRIC SOCKET HEAD	120
METRIC ALLOY STEEL GRADE 12.9	120
METRIC ALLOY STEEL GRADE 12.9 CON'T	121
METRIC ALLOY STEEL	122
SOCKET HEAD	123
ALLOY STEEL	123
ALLOY STEEL CON'T	124
ALLOY STEEL CON'T	125
STAINLESS STEEL	126
STAINLESS STEEL HEX HEAD	127
STAINLESS STEEL HEX HEAD CON'T	128
CHAIN ACCESSORIES	129
LINKAGE ROD CLIPS	129
LINKAGE ROD CLIP ASSORTMENT	129
ADJUSTABLE YOKE ENDS	129
BALL JOINT ROD ENDS	129
GRADE 43 CLEVIS GRAB AND SLIP HOOKS	130
GRADE 43 EYE TYPE GRAB AND SLIP HOOKS	130
GRADE 70 CLEVIS GRAB AND SLIP HOOKS	130
GRADE 70 EYE TYPE GRAB & SLIP HOOKS	131
GRADE 70 CHAIN	131
GRADE 80 CHAIN	131
COLD SHUTS	131



BRAVE INDUSTRIAL FASTENERS, INC CATALOG INDEX

SAFETY LATCH HOOKS.....	132
DRAGLINK (HAMMERLOK).....	132
SAFETY SNAP HOOKS.....	132
LAP LINKS.....	133
S-HOOKS.....	133
CONNECTING LINKS.....	133
QUICK LINKS.....	133
LOAD BINDERS.....	134
LEVER LOAD BINDERS.....	134
RATCHET LOAD BINDERS.....	134
ROLLER.....	135
ANSI STANDARD ROLLER CHAIN.....	135
HEAVY DUTY ROLLER CHAIN.....	135
DOUBLE STRAND ROLLER CHAIN.....	135
CHEMICALS.....	136
SILICONE SEALERS AND GASKET.....	136
CAULK TUBE 10.3OZ.....	136
2.8OZ RTV SILICONE RUBBER.....	136
ADHESIVE/SEALANT TUBE.....	136
NICKEL BASE ANTI-SEIZE SEALANT.....	137
COPPER BASE ANTI-SEIZE SEALANT.....	137
TEFLON THREAD SEALER.....	137
PREMIUM RED GREASE.....	137
WHITE LITHIUM GREASE.....	137
BLACK BRUSH ON ELECTRIC TAPE.....	138
1OZ DUAL PACK 4 MINUTE EPOXY.....	138
CHEMICALS.....	139
CLEANERS & LUBRICANTS.....	140
GLASS CLEANER.....	140
PENETRATING LUBRICANT.....	140
DRY MOLLY.....	140
SAFETY SOLVENT.....	140
INDUSTRIAL STRENGTH CLEANER.....	140
NAM#1 LIME REMOVER GALLON.....	140
TRIGGER SPRAYER,STD.....	140
TRIGGER SPRAYER CHEMICAL RESISTANT.....	140
ANTI-SEIZE.....	141
DRI FILM GRAPHITE LUBRICANT.....	141
LIGHTENING BOLT.....	141
GEL LUBE.....	141
EZ LUBE WHITE FOOD GRADE GREASE.....	141
VINYL DRESSING.....	141
BRAVE FLEX-COAT.....	142
BRAVE EXTREME SILICONE SPRAY.....	142
PROZONE MECHANICS SPRAY.....	142
NON-CHLORINATED. NON FLAMMABLE SPRAY. PENETRATES-CLEANS, FREES.....	142
FROZEN FITTINGS. NEVER DRIES, LUBRICATES, DISPLACES WATER.....	142
BATTERY TERMINAL CLEANER.....	142
BATTERY TERMINAL PROTECTOR.....	142
CONTACT CLEANER.....	142
INSTAZORB.....	142
16 X 20 GRAY SORBENT PAD.....	142
HAND CLEANERS.....	143
BEFORE HAND CLEANER & PROTECTOR.....	143
LOSHUN HAND CLEANER.....	143
ORANGE CRUNCH HAND CLEANER.....	143
NATURAL CITRUS DEGREASER & DEODORIZER.....	143
GALLON GRUFF HAND CLEANER.....	143



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

PROFERRED HAND & TOOL WIPES	143
82 WIPES, 9" X 12" CANISTER	143
CLAMPS & CLIPS	144
CABLE, TUBE AND LOOM	144
STICK ON LOOM CLIPS	144
LIGHT DUTY METAL LOOM CLIPS.....	144
HEAVY DUTY METAL LOOM CLIPS	144
NYLON LOOM CLIPS.....	144
BLACK NYLON SPLIT CONVOLUTED LOOM	145
BLACK SPIRAL WRAP LOOM	145
2-TUBE CUSHIONED CABLE CLAMPS	145
HOSE CLAMPS.....	146
STAINLESS STEEL BAND AND HOUSING,	146
PLATED HEX HEAD CAPSCREW	146
ALL STAINLESS STEEL.....	146
SHIELDED/LINED HOSE CLAMPS.....	147
HOSE CLAMP DIMENSION	147
WIRE ROPE CLIPS.....	148
FORGED.....	148
MALLEABLE	148
WIRE ROPE THIMBLES	148
WIRE ROPE	148
COUPLINGS	149
QUICK	149
INDUSTRIAL INTERCHANGE	149
AUTOMOTIVE STYLE.....	150
LINCOLN STYLE	150
ARO STYLE COUPLING	151
AIR BLOW GUN	151
INDUSTRIAL STYLE HYDRAULIC.....	152
QUICK CONNECTS ISO "B"	152
HEAVY DUTY FLUSH FACE-NON SPILL FE COUPLERS	153
HT-SERIES ISO 16028 FLUSH FACE COUPLERS	153
FLUSH FACE NIPPLES (PLUGS).....	153
MEGA CRIMP G25-SERIES	154
MALE PIPE	154
MALE PIPE SWIVEL	154
MALE PIPE SWIVEL 90° BLOCK.....	154
FEMALE JIC (37° FLARE SWIVEL)	155
FEMALE JIC 45°	155
FEMALE JIC 90°	156
MALE SAE (45° FLARE).....	156
FEMALE SAE (45° FLARE) SWIVEL	157
MALE FLAT FACED O-RING	157
FEMALE FLAT FACED O-RING SWIVEL.....	157
FEMALE FLAT FACED O-RING SWIVEL 45°.....	158
FEMALE FLAT FACED O-RING SWIVEL 90°.....	158
FEMALE DIN 24° CONE SWIVEL W / O-RING	159
FEMALE DIN 24° CONE SWIVEL-HEAVY SERIES W / O-RING.....	159
MALE DIN 24° CONE-LIGHT SERIES	159
SAE MALE INVERTED SWIVEL	159
MALE BRITISH STANDARD PIPE TAPERED	160
FEMALE BRITISH STANDARD PARALLEL PIPE O-RING SWIVEL	160
SAE MALE INVERTED SWIVEL 45°.....	160
SAE MALE INVERTED SWIVEL 90°.....	160
MEGA CRIMP GS G-20 SERIES	161
MALE PIPE	161
MALE JIC	161



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

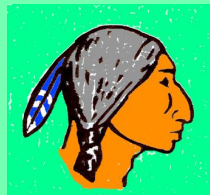
FEMALE JIC SWIVEL.....	161
FEMALE JIC SWIVEL 45°	161
FEMALE JIC SWIVEL 90°	162
MALE FLAT FACE	162
FEMALE FLAT FACE	162
FEMALE FLAT FACE 45°	162
FEMALE FLAT FACE 90°	162
O-RING FLANGE CODE 61	163
22-1/2 BENT TUBE.....	163
30° BENT TUBE	163
45° BENT TUBE	163
60° BENT TUBE	163
67° BENT TUBE	163
O-RING FLANGE CODE 61	164
90° BENT TUBE	164
O-RING HEAVY FLANGE CODE 62	164
30° BENT TUBE	164
45° BENT TUBE	164
90° BENT TUBE	164
CATAPILLAR STYLE O-RING FLANGE	164
45° BENT TUBE	164
90° BENT TUBE	164
CUTTING TOOLS.....	165
FRAMES.....	165
SINGLE EDGE RAZOR BLADE	165
SCRAPER KNIFE.....	165
UTILITY KNIFE.....	165
UTILITY BLADES	165
COBALT BI-HARD HACKSAW BLADES.....	166
3P SET COBALT BI-HARD HACKSAW BLADES.....	166
RECIPROCATING SAW BLADES	166
COBALT BI-METAL	166
DEMOLITION/REMODELING BLADES.....	166
COBALT RECIPROCATING BLADES	166
DIES	167
HIGH SPEED.....	167
ADJUSTABLE ROUND DIES	167
TAPS AND DIES	168
CARBON STEEL	168
DRILL BITS.....	169
JOBBERS LENGTH TYPE 190-AG	169
FRACTIONAL SIZES.....	169
LETTER SIZES.....	169
WIRE GAUGES	170
TITANIUM NITRIDE COATED	170
METRIC JOBBER LENGTH DRILLS TYPE 170-AG	171
REDUCED SHANK DRILLS	172
ROTARY HAMMER.....	173
HEAVY DUTY STRAIGHT SHANK	173
HEAVY DUTY 135° SPLIT POINT	173
SPIRAL FLUTE EASY-OUT	174
DRIVERS	175
POWER	175
MAGNETIC HEX DRIVERS.....	175
PHILLIPS DRIVERS	175
TORX DRIVERS	175
6 IN 1 PHILLIPS/SLOTTED SCREWDRIVER.....	175



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

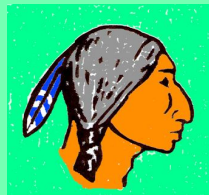
E-CLIPS	176
STANDARD	176
REINFORCED	176
ELECTRICAL PRODUCTS	177
ELECTRICAL TAPE	177
BRUSH-ON ELECTRICAL TAPE	177
FLASHERS	177
HEAT SHRINK TUBE	177
HEAT SHRINK TUBE CON'T	178
CONNECTORS	179
STEP DOWN BUTT CONNECTOR	179
MALE/FEMALE 1/4 PIGGY BACK QUICK SLIDES	179
MALE/FEMALE HEAT SHRINK PIGGY BACK QUICK SLIDE	179
3 WAY HEAT SHRINK TERMINAL	179
TERMINALS 22-18 AWG	180
HOOK TERMINALS	180
BUTT CONNECTORS	180
3 WAY CONNECTORS	180
4 WAY CONNECTORS	180
FLAG TERMINALS	180
FEMALE QUICK SLIDES	181
UNIVERSAL FEMALE BULLETS	181
UNIVERSAL MALE BULLETS	181
FEMALE T-TAP	181
MALE QUICK SLIDES	181
TERMINALS 16-14 AWG	182
HOOK TERMINALS	182
BUTT CONNECTORS	182
3 WAY CONNECTORS	182
4 WAY CONNECTORS	182
FLAG TERMINALS	182
MALE QUICK SLIDES	183
FLAG FEMALE QUICK SLIDES	183
FULLY INSULATED FEMALE QUICK SLIDES	183
FULLY INSULATED MALE QUICK SLIDES	183
FEMALE T-TAP	183
EYE TERMINALS	184
SPADE TERMINALS	184
FLANGED SPADE TERMINALS	184
TERMINALS 12-10 AWG	185
HOOK TERMINALS	185
BUTT CONNECTORS	185
3 WAY CONNECTORS	185
4 WAY CONNECTORS	185
FLAG TERMINALS	185
TERMIANLS 6 AWG	186
EYE TERMINALS	186
BUTT CONNECTORS	186
TERMINALS 4 AWG	187
HEAT SEAL TERMINALS	188
COLOR CODED: RED, 22-18 GAUGE	188
EYE TERMINALS	188
BUTT CONNECTORS	188
1/4 MALE QUICK SLIDE CONNECTORS	188
1/4 FEMALE QUICK SLIDE CONNECTORS	188
NO CRIMP HEAT SEAL SOLDER RING TERMINALS	189
EYE TERMINALS	189
BUTT CONNECTORS	189



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

1/4 MALE QUICK SLIDE CONNECTORS	189
FULL INSULATED 1/4 FEMALE QUICK SLIDE CONNECTORS	189
EZ-LOK THREAD INSERTS	190
COARSE THREAD, HEAVY WALL.....	190
FINE THREAD, HEAVY WALL.....	190
COARSE THREAD EXTRA HEAVY WALL.....	190
STAINLESS STEEL INSERTS	191
COARSE THREAD	191
FINE THREAD	191
THREAD INSERT REPAIR KITS	192
COARSE THREAD	192
FINE THREAD	192
STAINLESS STEEL	192
FITTINGS.....	193
GREASE.....	193
HEAVY DUTY GREASE GUN	193
HYDRAULIC COUPLER	193
12" WHIP HOSE	193
STANDARD BUTTON HEADS	193
1/4-28 PIPE THREAD	193
1/8 PIPE THREAD	193
1/4 PIPE THREAD	194
SPRING AND DRIVE FITTINGS	194
METRIC GREASE FITTINGS.....	194
PIPE - BLACK MALLEABLE.....	195
90° ELBOWS	195
45° ELBOWS	195
90° STREET ELBOWS.....	195
TEES.....	196
COUPLINGS	196
CAPS	196
HEX REDUCING BUSHINGS.....	197
REDUCING COUPLINGS.....	197
45° STREET ELBOW	198
BLACK PIPE NIPPLES.....	199
LEGRIS.....	200
MALE BRANCH TEE	200
TUBE UNIONS, STRAIGHT, ELBOW, TEE	200
PLUG	200
EXHAUST FLOW CONTROL VALVE	200
IN FLOW CONTROL VALVES	201
TUBE TO MALE PIPE	201
TUBE TO 10-32	201
MALE RUN TEE.....	201
MEGA CRIMP G25-SERIES COUPLINGS	202
MALE PIPE	202
MALE PIPE SWIVEL	202
MALE PIPE SWIVEL 90° BLOCK.....	202
FEMALE JIC (37° FLARE SWIVEL)	203
FEMALE JIC 45°	203
FEMALE JIC 90°	204
MALE SAE (45° FLARE).....	204
FEMALE SAE (45° FLARE) SWIVEL	205
MALE FLAT FACED O-RING	205
FEMALE FLAT O-RING SWIVEL	205
FEMALE FLAT FACED O-RING SWIVEL 45°.....	206
FEMALE FLAT FACED O-RING SWIVEL 90°.....	206



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

FEMALE DIN 24° CONE SWIVEL W / O-RING	207
FEMALE DIN 24° CONE SWIVEL-HEAVY SERIES W / O-RING	207
MALE DIN 24° CONE-LIGHT SERIES	207
SAE MALE INVERTED SWIVEL	207
MALE BRITISH STANDARD PIPE TAPERED	208
FEMALE BRITISH STANDARD PARALLEL PIPE O-RING SWIVEL	208
SAE MALE INVERTED SWIVEL 45°	208
SAE MALE INVERTED SWIVEL 90°	208
METRIC COMPRESSION	209
MALE BSPT*	209
TUBE TO MALE METRIC THREAD	209
POWER CRIMP FERRULES	210
ALUMINUM AND STEEL	210
FOR USE WITH PCS STEMS	210
FEMALE PIPE SOLID	211
NPTF SWIVEL MALE 90°	211
MALE SAE FLARE	211
FEMALE SAE SWIVEL	212
MALE JIC RIGID	212
FEMALE FLAT FACE O-RING 45° BENT TUBE	213
FEMALE FLAT FACE O-RING 90° BENT TUBE	213
O-RING FLANGE STRAIGHT	214
O-RING FLANGE 22° BENT TUBE	214
O-RING FLANGE 30° BENT TUBE	214
O-RING FLANGE 45° BENT TUBE	214
O-RING FLANGE 60° BENT TUBE	215
O-RING FLANGE 67° BENT TUBE	215
O-RING FLANGE 90° BENT TUBE	215
FEMALE SPECIAL GREASE FITTING	215
MALE SPECIAL GREASE FITTING	215
MALE FLARELESS	216
POWER LINK	216
JAPANESE METRIC	216
REUSABLE FOR 100R2 AT	217
RIGID MALE PIPE	217
SWIVEL MALE PIPE	217
FEMALE JIC SWIVEL	217
RIGID MALE JIC	218
O-RING MALE	218
FEMALE SWIVEL JIC 45° BENT TUBE	218
FEMALE SWIVEL JIC 90° BENT TUBE	218
FUSES	219
FUSE HOLDERS	219
AGC 1-1/4 LENGTH FUSES	219
SFE FUSES	219
MINI FUSES	220
ATO, BLADE TYPE, FUSES	220
MAXI FUSES	220
GLOVES	221
HEX L KEYS	222
ALLOY	222
INDUSTRIAL HEX L KEY SETS WITH COMPACT PLASTIC HOLDER	222
HEX SOCKET PIPE PLUG	223
ALLOY STEEL	223
3/4 TAPER DRY SEAL PRESSURE PLUGS	223
HOSE	224
AIR	224



BRAVE INDUSTRIAL FASTENERS, INC CATALOG INDEX

ADAPTA FLEX AIR HOSE	224
POLYURETHANE RECOIL AIR HOSE	224
NYLON RECOIL AIR HOSE	224
RETRACTABLE AIR HOSE.....	224
POWER CRIMP PCS STEMS 100R12	225
MALE PIPE	225
MALE JIC	225
FEMALE JIC SWIVEL.....	225
CODE 61 O-RING FLANGE	225
45° BENT TUBE	225
90° BENT TUBE	225
BRASS FERRULES	226
POWER CRIMP STEMS.....	227
FEMALE PIPE SOLID.....	227
NPTF SWIVEL MALE 90°.....	227
MALE SAE FLARE.....	227
FEMALE SAE SWIVEL.....	228
MALE JIC RIGID	228
FEMALE FLAT FACE O’RING 45° BENT TUBE.....	229
FEMALE FLAT FACE O’RING 90° BENT TUBE.....	229
O-RING FLANGE STRAIGHT	230
O-RING FLANGE 22° BENT TUBE.....	230
O-RING FLANGE 30° BENT TUBE.....	230
O-RING FLANGE 45° BENT TUBE.....	230
O-RING FLANGE 60° BENT TUBE.....	231
O-RING FLANGE 67° BENT TUBE.....	231
O-RING FLANGE 90° BENT TUBE.....	231
FEMALE SPECIAL GREASE FITTING	231
MALE SPECIAL GREASE FITTING	231
MALE FLARELESS.....	232
POWER LINK	232
JAPANESE METRIC.....	232
KURT HYDRAULIC HOSE	233
SAE 100R1 HYDRAULIC HOSE	233
SAE 100R2 AT HYDRAULIC HOSE.....	233
SAE 100R16 HYDRAULIC HOSE	234
MALE PIPE NPTF RIGID.....	235
MALE PIPE NPTF SWIVEL	235
NPSM FEMALE PIPE SWIVEL	235
NPSM FEMALE PIPE RIGID	235
MALE BOSS O-RING RIGID	236
MALE BOSS O-RING SWIVEL.....	236
MALE BOSS O-RING SWIVEL 90°	236
MALE PIPE SWIVEL 90°	236
37° JIC FEMALE SWIVEL	237
37° JIC MALE RIGID.....	237
MALE FACE SEAL RIGID.....	237
37° JIC FEMALE 90° TUBE SWIVEL	238
37° JIC FEMALE 45° TUBE SWIVEL	238
37° JIC FEMALE 90° TUBE SWIVEL LONG DROP.....	238
O-RING FACE SEAL FEMALE SWIVEL	239
O-RING FACE SEAL FEMALE 90° TUBE SWIVEL	239
O-RING FACE SEAL FEMALE 45° TUBE SWIVEL	239
O-RING FACE SEAL FEMALE 90° SWIVEL LONG DROP	239
45° SAE MALE INVERTED FLARE	240
45° SAE MALE INVERTED FLARE 45°.....	240
45° SAE MALE INVERTED FLARE 90°.....	240



BRAVE INDUSTRIAL FASTENERS, INC CATALOG INDEX

FLARELESS COMPRESSION SAE J514	240
KARCHER PRESSURE WASH FEMALE SWIVEL.....	241
45° SAE FEMALE SWIVEL.....	241
45° SAE MALE RIGID.....	241
45° SAE FEMALE 90° TUBE SWIVEL.....	241
45° SAE FEMALE 45° TUBE SWIVEL.....	241
CODE 61 FLANGE RIGID	242
STAND TUBE RIGID	242
FEMALE WELD FITTING RIGID.....	242
SHELL ONLY.....	242
FLARELESS COMPRESSION SAE J514	242
BRITISH STANDARD PIPE 60° CONE FEMALE SWIVEL	243
BRITISH STANDARD PIPE 60° CONE MALE RIGID	243
BRITISH PARALLEL PIPE 60° CONE MALE RIGID	243
BRITISH FLAT FACE SEAT FEMALE SWIVEL.....	243
BRITISH STANDARD PIPE 60° CONE 90° TUBE FEMALE SWIVEL	243
BRITISH STANDARD PIPE 60° CONE 45° TUBE FEMALE SWIVEL	243
DIN LIGHT UNIVERSAL SEAT FEMALE SWIVEL	244
DIN LIGHT UNIVERSAL SEAT RIGID MALE.....	244
DIN LIGHT UNIVERSAL SEAT 90° TUBE FEMALE SWIVEL	244
DIN LIGHT UNIVERSAL SEAT 45° TUBE FEMALE SWIVEL	244
DIN HEAVY UNIVERSAL SEAT FEMALE SWIVEL.....	244
DIN HEAVY UNIVERSAL SEAT RIGID MALE	245
DIN HEAVY UNIVERSAL SEAT 90° TUBE FEMALE SWIVEL.....	245
DIN HEAVY UNIVERSAL SEAT 45° TUBE FEMALE SWIVEL.....	245
JIS 30° SEAT FEMALE SWIVEL	245
KOMATSU JIS 30° SEAT FEMALE SWIVEL	245
MALE PIPE NPTF RIGID.....	246
37° JIC FEMALE SWIVEL	246
37° JIC FEMALE 90° SWIVEL	246
37° JIC FEMALE 45° SWIVEL	246
O-RING FACE SEAL FEMALE SWIVEL	247
O-RING FACE SEAL 45° FEMALE SWIVEL.....	248
O-RING FACE SEAL 90° FEMALE SWIVEL.....	248
MALE BOSS O-RING RIGID	248
37° JIC MALE RIGID.....	248
CODE 61 FLANGE RIGID	248
FLAT FACE FITTINGS.....	249
HYDRAULIC FITTINGS.....	249
MALE FACE SEAL TO MALE JIC ADAPTER	249
O-RINGS FOR BOSS FITTINGS	250
LOCKNUTS FOR BULKHEAD FITTINGS.....	250
O'RING ASSORTMENT	250
HYDRAULIC HOSE.....	251
1 WIRE 100R1.....	251
2 WIRE 100R2.....	252
2 WIRE HOSE 100R16.....	252
2 FIBER BRAND 100R3	253
SUCTION HOSE 100R4.....	254
FIBER COVERED 100R5.....	255
4 SPIRAL 100R12.....	256
EFG4K HOSE 100R12.....	256
G3K HOSE 100R12	256
BRAID 3	257
PYTHON LOCK-ON HOSE	258
3/8 I.D.....	258
1/2 I.D.....	258
5/8 I.D. BLACK PYTHON LOCK-ON HOSE	258



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

ADAPTA FLEX MULTI PURPOSE HOSE.....	259
RED HOSE	259
BLACK HOSE	259
COMBINATION NIPPLES	259
ADAPTA FLEX AIR HOSE	260
POLYURETHANE RECOIL AIR HOSE	260
NYLON RECOIL AIR HOSE	260
RETRACTABLE AIR HOSE.....	260
FUEL LINE HOSE	261
HEATER HOSE	261
HIGH PRESSURE WASHER HOSE	261
3/8 PRESSURE WASHER HOSE	261
MATERIAL HANDLING HOSE.....	262
HEAVY DUTY HOSE WRAP	262
IGNITION	263
PLUG WIRES	263
IGNITION TERMINALS	263
PLUG BOOTS	263
NIPPLES.....	263
GXL WIRE	264
TOOLS.....	264
HAND HELD HEX CRIMP TOOL	264
KEY STOCK	265
SQUARE KEY STOCK	265
SQUARE KEY STOCK, PLAIN, UNDERSIZED.....	265
ROUND KEY STOCK	265
MACHINE SCREWS.....	266
FLAT HEAD	266
ZINC PLATED STEEL, SLOTTED.....	266
STAINLESS STEEL SLOTTED	267
BRASS SLOTTED	267
PHILLIPS HEAD ZINC PLATED STEEL	267
PHILLIPS STAINLESS STEEL	268
METRIC	269
SLOTTED ZINC PLATED	269
PHILLIPS STEEL ZINC PLATED	270
PHILLIPS PAN HEAD MACHINE SCREWS STAINLESS STEEL	270
OVAL HEAD	271
PHILLIPS STAINLESS STEEL	271
PAN HEAD	272
PHILLIPS PAN HEAD STEEL ZINC PLATED	272
SLOTTED TRUSS HEAD	272
PHILLIPS TRUSS HEAD	272
PHILLIPS STAINLESS STEEL	273
ROUND HEAD.....	274
ZINC PLATED STEEL, SLOTTED.....	274
STAINLESS STEEL SLOTTED	275
BRASS SLOTTED	275
PHILLIPS ZINC PLATED STEEL	275
THREAD CUTTING STEEL ZINC PLATED	276
SLOTTED PAN HEAD	276
HEX WASHER HEAD.....	276
PHILLIPS FLAT HEAD.....	276
TORX DRIVE FLAT HEAD	276
SLOTTED FLAT HEAD.....	276
MUFFLER SHOP ITEMS.....	277
METRIC MANIFOLD STUDS	277



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

METRIC HEX NUTS.....	277
FINE THREAD METRIC NUTS.....	277
FULL THREADED BOLTS.....	278
FINISHED HEX NUTS.....	278
MANIFOLD STUDS.....	278
HEX HEAD SHEET METAL SCREWS.....	278
USS FLAT WASHERS.....	278
BLIND RIVETS.....	279
ALUMINUM.....	279
STEEL ZINC PLATED.....	279
NUTS.....	280
STEEL ZINC PLATED.....	280
CASTLE NUTS.....	280
SLOTTED HEX NUTS.....	280
SQUARE NUTS.....	280
STEEL ZINC PLATED FINISHED.....	281
JAM NUTS.....	281
CENTER LOCK HEX NUTS.....	281
SERRATED HEX FLANGE LOCK NUTS.....	281
K-LOCK NUTS.....	281
LOCK NUTS.....	282
TOP LOCK, "AUTOMATION STYLE" NUTS.....	282
FLANGE LOCK NUTS.....	282
HEX NUTS FINISHED FOR USE WITH GRADE 5 CAP SCREWS.....	283
GRADE 5 FINISHED HEX NUTS.....	283
MACHINE SCREW NUTS.....	283
GRADE 8 FINISHED HEX NUTS.....	284
SAE HIGH NUTS.....	284
STAINLESS STEEL.....	285
FINISHED HEX NUTS.....	285
HEAVY HEX NUTS.....	285
MACHINE SCREW NUTS.....	285
SERRATED FLANGE NUTS.....	285
K-LOCK NUTS.....	285
NYLON LOCK NUTS.....	286
CAP NUTS.....	286
JAM NUTS.....	286
STEEL ZINC PLATED.....	287
HEAVY HEX NUTS.....	287
HEAVY HEX NUTS GRADE 2H.....	287
CAP NUTS.....	287
FORGED WING NUTS.....	287
NYLON LOCK NUTS.....	288
BRASS MACHINE SCREW NUTS.....	288
BRASS FINISHED HEX NUTS.....	288
L-9 FINISHED HEX NUTS.....	289
L-9 LOCK NUTS.....	289
METRIC.....	290
DIN STANDARD METRIC NUTS STRENGTH CLASS 8.....	290
JIS NUTS STRENGTH CLASS 8.....	290
STRENGTH CLASS 10 DIN STANDARD.....	290
METRIC NYLON LOCK NUTS.....	291
METRIC ALL METAL LOCK NUTS.....	291
DIN980U CLASS 10 COARSE THREAD.....	291
STAINLESS STEEL METRIC HEX NUTS.....	291
NYLON TIES.....	292
NATURAL COLORED NYLON WIRE TIES.....	292
BLACK UV AND HEAT RESISTANT.....	292



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

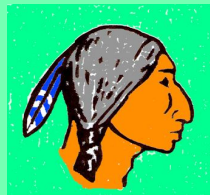
COLORED NYLON CABLE TIES.....	292
BLACK TY-RAP CABLE TIES.....	292
O-RINGS - BUNA-N.....	293
70 DUROMETER.....	293
1/16 DIAMETER.....	293
3/32 DIAMETER.....	293
3/32 DIAMETER CON'T	294
1/8 DIAMETER.....	294
1/8 DIAMETER CON'T	295
3/16 DIAMETER.....	295
3/16 DIAMETER CON'T	296
1/4 DIAMETER.....	296
VITON O-RINGS	296
METRIC 70 DUROMETER.....	297
3/32 DIAMETER.....	297
1/8 DIAMETER.....	297
METRIC 70 DUROMETER CON'T	298
PAINT.....	299
HIGH SOLID AEROSOL PAINTS	299
PRIMER.....	299
MARKERS	299
PAINT MARKER.....	299
PINS, BUSHING & STRAPS	300
COTTER PINS	300
DOWEL PINS	301
HEAT TREATED ALLOY STEEL STANDARD PRECISION GROUND.....	301
TWISTED CLEVIS.....	302
STRAIGHT CLEVIS.....	302
PIN LOCK HITCH PINS.....	302
FORGED HITCH PINS.....	302
BENT PULL PINS.....	303
SNAP LOCK PINS.....	303
LIFT ARM PIN	303
LIFT ARM BUSHING	303
TOP LINK PINS.....	304
TOP LINK BUSHINGS.....	304
CLEVIS PINS.....	304
POWER TAKE-OFF PINS.....	304
LYNCH PINS	304
HANGER STRAPS	304
HAIR PINS.....	305
HITCH PIN CLIPS.....	305
POLY BOX ASSORTMENT	305
HAIR PINS ACTUAL SIZES.....	306
ROLL PINS.....	307
PLAIN CARBON STEEL HARDNESS, ROCKWELL C SCALE 46-53.....	307
PLAIN CARBON STEEL HARDNESS, ROCKWELL C SCALE 46-53 CON'T	308
ROLL PIN ASSORTMENTS	308
SCREWS.....	309
DRILL & TAP	309
PHILLIPS PAN HEAD STEEL ZINC PLATED	309
PHILLIPS PAN HEAD STAINLESS STEEL.....	309
HEX WASHER HEAD STAINLESS STEEL	309
HEX WASHER HEAD.....	310
METRIC SOCKET SET	311
CUP POINT - ALLOY STEEL	311
SHEET METAL.....	312



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

PHILLIPS FLAT HEAD STEEL ZINC PLATED.....	312
SLOTTED FLAT HEAD STEEL ZINC PLATED.....	312
STAINLESS STEEL TRUSS HEAD.....	312
HEX WASHER HEAD STEEL ZINC PLATED.....	313
HEX WASHER HEAD EXTRA SHARP	313
HEX HEAD STEEL ZINC PLATED.....	313
SLOTTED PAN HEAD STEEL ZINC PLATED	314
PHILLIPS PAN HEAD STEEL ZINC PLATED	314
HEX WASHER HEAD STEEL ZINC PLATED.....	314
SLOTTED PAN HEAD	315
PHILLIPS PAN HEAD.....	315
PHILLIPS FLAT HEAD.....	315
PHILLIPS OVAL HEAD STEEL ZINC PLATED.....	316
PHILLIPS OVAL HEAD STAINLESS STEEL.....	317
STAINLESS STEEL HEX WASHER HEAD	317
METAL TRAY ASSORTMENTS.....	318
PLASTIC TRAY ASSORTMENTS.....	318
SOCKET SET.....	319
CUP POINT ALLOY STEEL	319
CUP POINT ALLOY STEEL CON'T	320
CUP POINT ALLOY STEEL CON'T	321
METRIC SOCKET SET	322
CUP POINT - ALLOY STEEL	322
SQUARE HEAD.....	323
CUP POINT, HEAT TREATED, COARSE THREAD	323
THREAD CUTTING STEEL ZINC PLATED	324
SLOTTED PAN HEAD	324
HEX WASHER HEAD.....	324
PHILLIPS FLAT HEAD.....	324
TORX DRIVE FLAT HEAD	324
SLOTTED FLAT HEAD.....	324
WOOD	325
SLOTTED FLAT HEAD STEEL ZINC PLATED.....	325
PHILLIPS FLAT HEAD STEEL ZINC PLATED.....	326
SLOTTED FLAT HEAD BRASS	327
PHILLIPS FLAT HEAD BRASS	327
SHAFT SET COLLARS	328
STEEL WITH SOCKET SET SCREW	328
ASSORTMENT.....	328
STUDS	329
GENERAL PURPOSE	329
1/4 STUDS.....	329
5/16 STUDS.....	329
3/8 STUDS.....	329
7/16 STUDS.....	329
7/16 STUDS (CON'T)	330
1/2 STUDS.....	330
9/16 STUDS.....	330
5/8 STUDS.....	330
3/4 STUDS.....	330
TAPES & WIRE	331
DUCT TAPE	331
GLASS STRAPPING TAPE.....	331
CLEAR PACKAGE SEALING TAPE	331
PIPE THREAD SEALING TEFLON.....	331
MECHANICS WIRE.....	331
BLACK ANNEALED WIRE FOR EASY BENDING.....	331



BRAVE INDUSTRIAL FASTENERS, INC CATALOG INDEX

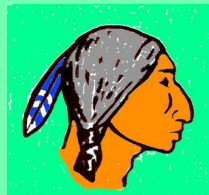
TAPS.....	332
MAGNUM SUPER PREMIUM	332
SUPER PREMIUM TAPER PIPE TAPS	333
METRIC SUPER PREMIUM.....	333
SPIRAL POINT PLUG TAP	333
PLUG TAP HI CARBON STEEL.....	334
METRIC SPIRAL POINT TAPS-PLUG STYLE.....	334
TAPS & DIES.....	335
CARBON STEEL	335
TARPS & TIE DOWNS	336
SILVER TARPS	336
HEAVY DUTY TIE DOWN STRAPS WITH S-HOOKS	336
15,000# TOW STRAP	336
RATCHET TIE DOWN	336
RATCHET LOAD BINDER	336
TERMINALS & CONNECTORS	337
PLASTIC COATED BATTERY/STARTER CABLE	337
BUTT CONNECTORS.....	337
PACKARD CABLE SEALS	338
WEATHER-PACK TERMINALS.....	338
CONNECTOR BODIES	338
THREADED ROD & ROUND STOCK.....	339
LOW CARBON STEEL ZINC PLATED	339
ROD COUPLING NUTS.....	339
STAINLESS AND ALLOY STEEL	340
METRIC THREADED ROD	340
TOOLS.....	341
WIRE TIE ASSORTMENTS.....	341
NYLON TIE TENSIONING AND CUTTING TOOL.....	341
MICRO TORCH.....	341
HEAVY DUTY AC POWERED HEAT GUN	341
CRIMPING TOOL.....	341
BATTERY CRIMPING TOOL	341
BATTERY TERMINAL AND POST CLEANER	341
ECONOMY PAINT CHIP & APPLICATOR BRUSH	342
UTILITY BRUSH.....	342
FLUX AND ADHESIVE BRUSHES	342
6" DIAL AND DIGITAL CALIPER.....	342
MEASURING TAPE.....	342
1/4 AIR DIE GRINDER	342
3/8 REVERSIBLE AIR DRILL	342
SMALL AIR CONTROL UNIT	342
8 PIECE UNIVERSAL SOCKET SETS	343
3 PIECE SOCKET HOLDER SET	343
HEAVY DUTY "C" CLAMPS	343
4 PIECE SNAP-N-STACK PLIER SET	343
4 PIECE PRY BAR SET	343
SLIP JOINT PLIERS.....	343
4 PIECE GROOVE JOINT PLIER SET	343
8 PIECE MECHANIC'S SCREWDRIVER SET	343
22PC. SCREWDRIVER SET-HIGH VISIBILITY.....	343
10PC. FLAT 1/8 THRU 3/8, 5PC. STAR DRIVE 10 THRU 30,	343
7-1/2"DIAGONAL CUTTING PLIERS.....	344
ALUMINUM CORNER CLAMP.....	344
7 PC SLOTTED/PHILLIPS SCREWDRIVER SET	344
7PC SLOTTED/PHILLIPS SCREWDRIVER SET	344
11PC SLT/PHL/POZ/HEX/TORX SET IN CASE.....	344



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

7PC NUT DRIVER INCH SIZES.....	344
5PC HEAVY DUTY MICROFINISH SLOTTED/PHILLIPS SET	344
MAGNETIZER/DEMAGNETIZER	344
FIRST AID KIT	344
TRAILER CONNECTORS	345
MOULDED	345
4 WAY FLAT	345
4 WAY SQUARE.....	345
6 WAY RECTANGULAR.....	345
BERG TRAILER CONNECTORS.....	345
TUBING.....	346
PLASTIC TUBE (PVC) CLEAR	346
SEMI RIDGED NYLON.....	346
POLYURETHANE	346
SEMI-RIDGED NYLON	347
NATURAL	347
CLEAR POLYURETHANE TUBING.....	347
POLYURETHANE TUBING METRIC.....	347
WASHERS	348
HI-COLLAR LOCK WASHERS	348
INTERNAL LOCK WASHERS.....	348
EXTERNAL LOCK WASHERS.....	348
STAINLESS STEEL.....	349
FLAT WASHERS.....	349
SPLIT LOCK WASHERS.....	349
FINISHING WASHERS.....	349
FLAT WASHERS.....	350
USS.....	350
SAE.....	350
BONDED SEALING WASHERS	350
STEEL ZINC W/NEOPRINE SEALER.....	350
LOCK WASHERS.....	351
STEEL ZINC PLATED	351
HIGH ALLOY ZINC AND GOLD DICHROMATE.....	351
NORD LOCK VIBRATION PROOF LOCK WASHERS	351
MACHINE BUSHINGS	352
WIDE RIM	352
NARROW RIM.....	352
METRIC	353
LOCK WASHERS DIN 7980 STEEL ZINC PLATED	353
FLAT WASHERS DIN 125 STEEL ZINC PLATED.....	353
CLASS 10 FLAT WASHERS	353
METRIC STAINLESS STEEL FLAT WASHERS.....	354
METRIC STAINLESS STEEL LOCK WASHERS.....	354
METRIC FENDER WASHER	354
METRIC STAINLESS STEEL FENDER WASHERS.....	354
METRIC RIBBED CONICAL LOCK WASHER	354
HEAVY DUTY MOLD WASHERS	355
FENDER WASHERS ZINC PLATED	355
EXTRA THICK FENDER WASHERS.....	355
STAINLESS STEEL FENDER WASHERS	355
WELDING SUPPLIES.....	356
4OZ WIRE FEED PAD LUBRICANT.....	356
5/CARD SINGLE FLINTS.....	356
SPARK LIGHTER	356
NOZZLE GEL	356
1OZ JB WELD	356



BRAVE INDUSTRIAL FASTENERS, INC CATALOG INDEX

ANTI SPATTER.....	356
ARROW MAGNETIC WELD HOLDER	356
SPRING HANDLE CHIP HAMMER.....	356
TIP CLEANERS.....	356
OXYGEN CYLINDER CAP	356
ACETYLENE CYLINDER CAP	356
WELDING HELMETS.....	357
WELDERS SLEEVES	357
WELDING CARTS.....	357
WELDING GLOVES	357
FLIP UP GOGGLES 2 X 4-1/4	357
SAFETY CLEAR GOGGLES.....	357
CLEAR LENS	357
AUTO DARKENING FILTER.....	357
CUTTING HEADS AND HANDLES.....	357
MEDIUM DUTY OXYGEN REGULATOR	358
MEDIUM DUTY ACETYLENE REGULATOR	358
ELECTRODE HOLDER.....	358
STEEL GROUND CLAMP	358
3 PIECE WELDING CLAMP SET.....	358
TWIN WELDING HOSE	358
RETRACTABLE WELDING HOSE	358
QUICK CONNECTION HOSE TO TORCH.....	358
AC ADAPTER.....	358
WELDING ROD.....	359
ALL STEELS TYPE 120.....	359
ALL STEELS HEAT TREATABLE TYPE 160.....	359
CAST IRON MAINTENANCE TYPE 55.....	359
ALL POSITION ELECTRODE TYPE 50.....	359
MILD STEEL COVERED ELECTRODES.....	360
LOW HYDROGEN MILD STEEL COVERED ELECTRODES.....	360
LINCOLN WELDING ROD	360
BRAZING ROD FLUX COATED.....	360
RG 45 MILD STEEL WELDING ROD.....	361
700 SERIES HARD FACING ROD	361
ER 4043 ALUMINUM TIG ROD.....	361
E4043 ALUMINUM TIG ROD	361
WELDING WIRE	361
.030X44#ER80S-D2.....	361
.045X33# 121-G HARD SURFACE WIRE.....	361
ROSIN CORE SOLDER	361
1/8 ACID CORE SOLDER	361
WIRES.....	362
MULTIPLE CONDUCTOR WIRE	362
CABLE TIE BASES	362
LOOM CLIPS.....	362
MECHANICS WIRE IN 2LB. SPOOLS.....	362
PRIMARY WIRE.....	363
WELDING CABLE	363
TRAILER WIRE.....	363
WIRE TIES	364
NATURAL COLORED NYLON WIRE TIES	364
BLACK UV AND HEAT RESISTANT.....	364
COLORED NYLON CABLE TIES	364
BLACK TY-RAP CABLE TIES	364
WRENCH SETS.....	365
BALL DRIVER L WRENCHES	365
FOLDING HEX KEY SETS.....	365



BRAVE INDUSTRIAL FASTENERS, INC

CATALOG INDEX

HEX L KEY SETS.....	365
MAGIC RING SCREW HOLDING HEX KEY SET	365



ABRASIVES

ABRASIVES

GRINDING DISC

5" X 7/8 DIAMETER & BORE	
GRIT	PART NUMBER
24	70670
36	70671
50	70672
60	70673
80	70674
7" X 7/8 DIAMETER & BORE	
24	70675
36	70676
60	70677
80	70678
9" X 7/8 DIAMETER & BORE	
24	70681
36	70682
80	70684



*PACKAGE OF 25

HOOK & LOOP P600 DISC

PART NUMBER
CGW52594

FLAP DISC

4-1/2" X 5/8-11 DIAMETER & BORE	
GRIT	PART NUMBER
36	70620
40	70621
60	70622
4-1/2" X 7/8 DIAMETER & BORE	
GRIT	PART NUMBER
40	AR1067353
60 (PREM Z3)	70628*
60	706561
4" X 5/8 PREM Z3	
GRIT	PART NUMBER
40	CGW42103
60	CGW42104
80	CGW42105
4-1/2" X 7/8 PREM Z3	
GRIT	PART NUMBER
40	CGW42302
80	CGW42305*
4-1/2" X 5/8-11 Z3	
GRIT	PART NUMBER
36	CGW42311
60	CGW42314
60 (PREM Z3)	CGW42374

*PACKAGE QUANTITY IS 10



ABRASIVES

MINI FLAP DISC

2" MINI FLAP DISC TYPE R	
GRIT	PART NUMBER
40	70710
3" MINI FLAP DISC TYPE R	
GRIT	PART NUMBER
40	70711
2" MINI FLAP DISC Z3 TYPE R	
GRIT	PART NUMBER
60	70712*

*PACKAGE QUANTITY IS 10

VELCRO DISC

7" BROWN VELCRO DISC	
PART NUMBER	AR62022

QUICK-LOK DISCS-TYPE R

GRIT	SIZE/COLOR	PART NUMBER
36	1" RED	70720
40	"	70721
50	"	70722
60	"	70723
80	"	70724
120	"	70726
240	"	70728
36	1-1/2" RED	70729
40	"	70730
50	"	70731
60	"	70732
80	"	70733
100	"	70734
120	"	70735
36	2" RED	70736
40	"	70737
50	"	70738
60	"	70739
80	"	70740
100	"	70741
120	"	70742
180	"	70743
240	"	70744
36	3" RED	70745
40	"	70746
50	"	70747
60	"	70748
80	"	70749
100	"	70750
120	"	70751
180	"	70752
240	"	70753



ABRASIVES

QUICK-LOK DISCS-TYPE S

GRIT	SIZE/COLOR	PART NUMBER
36	1" RED	70780
40	"	70781
50	"	70782
60	"	70783
80	"	70784
100	"	70785
120	"	70786
180	"	70787
240	"	70788
36	1-1/2" RED	70790
40	"	70791
50	"	70792
60	"	70793
80	"	70794
100	"	70795
120	"	70796
180	"	70797
240	"	70798
36	2" RED	70801
40	"	708002
50	"	70803
60	"	70804
80	"	70805
100	"	70806
120	"	70807
180	"	70808
240	"	70809
36	3" RED	70810
40	"	70811
50	"	70812
60	"	70813
80	"	70814
100	"	70815
120	"	70816
180	"	70817
240	"	70818



ABRASIVES

QUICK-LOK DISC HOLDER-TYPE R

GRIT	SIZE	PART NUMBER
MEDIUM	1 X 1/4	70760
MEDIUM	1-1/2 X 1/4	70762
SOFT	"	70763
MEDIUM	2 X 1/4	70765
FIRM	"	70766
SOFT	"	70767
MEDIUM	3 X 1/4	70769
FIRM	"	70770
SOFT	"	70771

QUICK-LOK DISC HOLDER-TYPE S

GRIT	SIZE	PART NUMBER
MEDIUM	3/4 X 1/4	70820
MEDIUM	1 X 1/4	70821
MEDIUM	1-1/2 X 1/4	70822
SOFT	"	70823
MEDIUM	2 X 1/4	70824
FIRM	"	70825
SOFT	"	70826
MEDIUM	3 X 1/4	70827
FIRM	"	70828
SOFT	"	70829



ABRASIVES

ROLOC STRIP DISC

SIZE/COLOR	PART NUMBER
2" RED	CGW59060
2" BLACK	CGW59061
3" RED	CGW 59062
3" BLACK	CGW59063

ROLOC BRISTLE DISC

GRIT	PART NUMBER
50	70714

ROLOC DISC HOLDER

SIZE	PART NUMBER
3"	GRP29040

FABRIC ABRASIVE ROLL

OPEN MESH CONSTRUCTION ALLOWS SANDED RESIDUE TO FILTER THROUGH TO PREVENT LOADING. THIS PRODUCT WORKS WELL ON HEAVILY RUSTED SHAFTS OR ANYWHERE HIGH VOLUME OF SOFT MATERIAL MUST BE REMOVED

GRIT	SIZE	PART NUMBER
180	1-1/2" X 25 YARDS	70639



CLOTH UTILITY ROLL

GRIT	SIZE	PART NUMBER
400	1" X 50 YARDS	70640
320	"	706401
240	"	706402
220	1" X 50 YARDS	70641
180	"	70642
120	"	706421
100	1" X 50 YARDS	706422
80	"	70643
60	"	706431
240	1-1/2" X 50 YARDS"	70644
220	1-1/2" X 50 YARDS	70645
180	"	70646
150	"	706460
120	"	706461
100	1-1/2" X 50 YARDS	706462
80	"	70647
320	2" X 50 YARDS	70648
280	2" X 50 YARDS	706481
220	"	70649
180	"	70650
120	2" X 50 YARDS	706501
100	"	706502
80	"	70651
60	"	70652



ABRASIVES

NARROW BELTS

GRIT	SIZE	PART NUMBER
80	2 X 48 STND R145	70840
120	6 X 48 STND R145	70850
120	2 X 60 STND R145	70860
180	2 X 60 STND R145	70861
240	2 X 60 STND R145	70862
320	2 X 60 STND R145	70863



STANDARD PACK IS 10

PREMIUM BELTS

GRIT	SIZE	PART NUMBER
36	6 X 48 AO/X PREM	70846
60	6 X 48 AO/X PREM	70847
80	6 X 48 AO/Y PREM	70848

PREDATOR CLOTH BELT

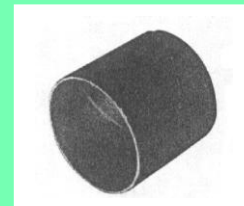
GRIT	SIZE	PART NUMBER
36	1/2 X 24	708300
60	1/2 X 24	708303



ABRASIVES

NO LAP BANDS ALUMINUM OXIDE RESIN BOND

GRIT	SIZE	PART NUMBER	GRIT	SIZE	PART NUMBER
60	1/4 X 1/2	70880	60	1 X 1-1/2	70915
100	1/4 X 1/2	70881	80	1 X 1-1/2	70916
120	1/4 X 1/2	70882	100	1 X 1-1/2	70917
60	1/2 X 1/2	70890	120	1 X 1-1/2	70918
80	1/2 X 1/2	70891	60	1 X 2	70919
100	1/2 X 1/2	70892	80	1 X 2	70920
120	1/2 X 1/2	70893	100	1 X 2	70921
180	1/2 X 1/2	70894	120	1 X 2	70922
60	1/2 X 1	70895	60	1-1/2 X 1	70923
80	1/2 X 1	70896	80	1-1/2 X 1	70924
100	1/2 X 1	70897	100	1-1/2 X 1	70925
120	1/2 X 1	70898	120	1-1/2 X 1	70926
40	3/4 X 1/2	70900	60	1-1/2 X 2	70927
80	3/4 X 1/2	70901	80	1-1/2 X 2	70928
40	3/4 X 1	70905	100	1-1/2 X 2	70929
60	3/4 X 1	70906	120	1-1/2 X 2	70930
80	3/4 X 1	70907	60	2 X 1	70931
100	3/4 X 1	70908	80	2 X 1	70932
40	1 X 1	70909	100	2 X 1	70933
60	1 X 1	70910	120	2 X 1	70934
80	1 X 1	70911	60	2 X 1-1/2	70935
100	1 X 1	70912	80	2 X 1-1/2	70936
120	1 X 1	70913	100	2 X 1-1/2	70937
40	1 X 1-1/2	70914	120	2 X 1-1/2	70938



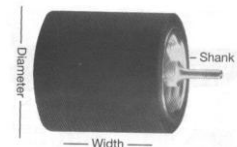
STANDARD PACK IS 100



ABRASIVES

SOLID RUBBER DRUM

SIZE	PART NUMBER	SIZE	PART NUMBER
1/4 X 1/2 X 1/8	70950	1 X 1-1/2 X 1/4	70959
1/2 X 1/2 X 1/4	70951	1 X 2 X 1/4	70960
1/2 X 1 X 1/4	70952	1-1/2 X 1 X 1/4	70962
3/4 X 1/2 X 1/4	70954	1-1/2 X 2 X 1/4	70963
3/4 X 1 X 1/4	70956	2 X 1 X 1/4	70964
1 X 1 X 1/4	70958	2 X 1-1/2 X 1/4	70965



CUT-OFF WHEEL

SIZE	PART NUMBER	SIZE	PART NUMBER
2 X 1/32 X 1/4	70600	4 X 1/32 X 1/4	70612
2 X 1/16 X 1/4	70601	4 X 1/16 X 1/4	70613
2 X 1/8 X 1/4	70602	4 X 1/8 X 1/4	70614
2-1/2 X 1/32 X 1/4	70603	4 X 1/32 X 3/8	70615
2-1/2 X 1/16 X 1/4	70604	4 X 1/16 X 3/8	70616
2-1/2 X 1/8 X 1/4	70605	4 X 1/8 X 3/8	70617
3 X 1/32 X 1/4	70606	4-1/2 X .040 X 7/8	706179*
3 X 1/16 X 1/4	70607	4-1/2 X .045 X 7/8	70618
3 X 1/8 X 1/4	70608	4-1/2 X .045 X 7/8	CGW45004
		4-1/2 X .045 X 7/8	CGW45225
		4-1/2 X 1/8 X 7/8	706551**
3 X 1/32 X 3/8	70609	4 X .040 X 5/8	CGW45014
3 X 1/16 X 3/8	70610	4 X .045 X 5/8	CGW45001*
3 X 1/8 X 3/8	70611	5 X .040 X 7/8	CGW45011
		6 X .045 X 7/8	CGW35517
		9 X 1/4 X 7/8	CGW35658
		12 X 5/32 X 20MM CHOP SAW	CGW35590
		14 X 5/32 X 20MM CHOP SAW	CGW36158

*PACKAGE QUANTITY IS 25

**PACKAGE QUANTITY IS 10

UTILITY CUT-OFF TOOL

3" UTILITY CUT-OFF TOOL	
PART NUMBER	MIT4315

DEBURRING WHEEL

6 X 1 X 1-9S FINE	
PART NUMBER	70659



ABRASIVES

SHANK WIRE WHEEL

SIZE	PART NUMBER
2 X 1/4	CGW60170
3 X 1/4	CGW60171

GRINDING WHEELS

SIZE	PART NUMBER	SIZE	PART NUMBER
4 X 1/4 X 5/8	70655	4-1/2 X 1/4 X 5/8-11	CGW35621
4-1/2 X 1/4 X 7/8	70656	4-1/2 X 1/4 X 7/8	CGW36107
4-1/2 X 1/4 X 5/8-11 A24T	70657	ALUMINUM OXIDE	
4-1/2 X 1/4 X 5/8-11	706572	4-1/2 X 5/32 X 7/8	CGW49543
ALUMINUM		ALUMINUM OXIDE	
6 X 1/2 X 1 A46	706575	6 X 1/4 X 7/8 A24R	CGW35632
ALUMINUM OXIDE		6 X 3/4 X 1 36 GRIT	CGW38007
6 X 1 X 1 BROWN	70658	ALUMINUM OXIDE	
ALUMINUM OXIDE		6 X 3/4 X 1 80 GRIT	CGW38010
6 X 1/2 X 1	709576	ALUMINUM OXIDE	
ALUMINUM OXIDE		6 X 1 X 1 A60	CGW38014
		ALUMINUM OXIDE	
7 X 1/8 X 5/8-11A	70660	8 X 1 X 1-1/4	CGW38203
7 X 1/4 X 7/8	706601	PREMIUM BLUE	
7 X 1/4 X 5/8-11 A24T	70661	ALUMINUM OXIDE	
7 X 1/4 X 5/8-11B	70662	8 X 3/4 X 1 COARSE	PTMH60080088278
8 X 1 X 1 ALUMINUM	70663		
OXIDE			
9 X 1/8 X 5/8-11A	70665		
9 X 1/4 X 7/8	706651		
9 X 1/4 X 5/8-11A	70666		
9 X 1/4 X 5/8-11 A24R	70667		
9 X 1/4 X 5/8-11 A24R	70668		



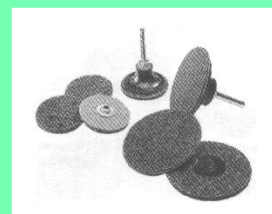
ABRASIVES

BRIGHT BUFF STANDARD QUICK-LOK SURFACE CONDITIONING DISCS

STANDARD SURFACE CONDITIONING MATERIAL IS SURFACE COATED WITH EXTRA GRIT FOR MORE AGGRESSIVE FINISHING ACTION. TYPE S OR R MECHANICAL LOCKING BUTTON CENTERS DISC ON TOOL WITH A TWIST OR A SNAP IN SECONDS. BEST SUITED FOR FLAT FINISHING APPLICATIONS. USED ON PORTABLE TOOLS IN CONJUNCTION WITH QUICK-LOK HOLDERS

TYPE S

DESCRIPTION	GRIT	PART NUMBER
2" BROWN	COARSE	70970
2" MAROON	MEDIUM	70971
2" BLUE	VERY FINE	70972
3" BROWN	COARSE	70973
3" MAROON	MEDIUM	70974
3" BLUE	VERY FINE	70975



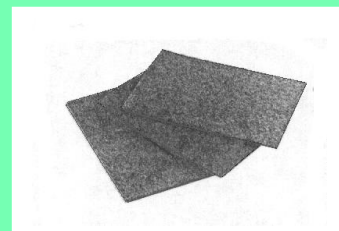
TYPE R

DESCRIPTION	GRIT	PART NUMBER
2" BROWN	COARSE	70976
2" MAROON	MEDIUM	70977
2" BLUE	VERY FINE	70978
3" BROWN	COARSE	70979
3" MAROON	MEDIUM	70980
3" BLUE	VERY FINE	70981

BRIGHT BUFF HAND PADS

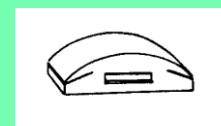
MADE OF NYLON FIBERS, RESINS AND ABRASIVE GRAINS. 3 DIMENSIONAL ABRASIVE SURFACE BREAKS DOWN, EXPOSING NEW GRAIN FOR CONSISTENT FINISHING. MAY BE USED WET OR DRY. COLOR CODED FOR EASY IDENTIFICATION

DESCRIPTION	GRIT	PART NUMBER
6 X 9 TAN	MEDIUM	AR07440
6 X 9 MAROON	VERY FINE	AR07447
6 X 9 GRAY	ULTRA FINE	AR07448



5" RUBBER SANDING BLOCK

METAL GRIPS CLENCH WET OR DRY SANDPAPER. ROUNDED AND FLAT ENDS FOR SANDING ALL ANGLES AND CONTOURS.
PART NUMBER **MIT7009**





ABRASIVES

BRUSHES

CUP BRUSH

DESCRIPTION	PART NUMBER
5/8-11 2-3/4" KNOTTED	C76021
5/8-11 3" CRIMPED	C76031
5/8-11 4" KNOTTED	C76046
5/8-11 4" CRIMPED	C76047
5/8-11 6" CRIMPED	C76061
5/8-11 6" KNOTTED	C76062
1/4" SHANK-80 GRIT	C77221
3/4" KNOT	FT6510007

END BRUSH

DESCRIPTION	PART NUMBER
1" X .020 X 7/8	FT6510012*
1" KNOTTED	CGW60580

*PACKAGE QUANTITY IS 10

NYLON FILL TUBE BRUSH

DESCRIPTION	PART NUMBER
1/4 X 6-1/4	CF04882
3/8 X 6-1/4	CF04883
1/2 X 8-1/2	CF04884
3/4 X 9	CF04867
1 X 12-1/4	CF04888

PACKAGE QUANTITY IS 6

CONDENSER TUBE BRUSH

DESCRIPTION	PART NUMBER
11/16 X 7-1/2 STST	CF65160

1/8 NPT OUTSIDE – 5/16-18 INTERNAL THREAD

FLUE & BROILER TUBE BRUSH

DESCRIPTION	PART NUMBER
1-1/4 X 8	CF84015

DOUBLE SPIRAL



ABRASIVES

MINI WIRE BRUSH

DESCRIPTION	PART NUMBER
BRASS	MIT7058
BRASS	CF73852
STAINLESS STEEL	MIT7059

WIRE BRUSH

DESCRIPTION	PART NUMBER
3 X 19 LONG HANDLE	MIT7070
4 X 10 SHOE HANDLE	MIT7075
4 X 16 SHOE HANDLE W/SCRAPER	MIT7076
1" KNOTTED	CGW60580

WIRE WHEEL BRUSH

DESCRIPTION	PART NUMBER
2" COARSE 1/4" STEEL SHANK	MIT7999
3" COARSE 1/4" STEEL SHANK	MIT8002
6 X 5/8 CRIMPED	CGW60665
6 X 5/8-11 RADIAL KNOTTED WIRE	CGW60505

POWER & HAND TUBE BRUSH

DESCRIPTION	TYPE/STEM	PART NUMBER
3/4 X 7/32 X 3-1/2	10/.006	FT6521076
3/4 X 7/32 X 3-1/2	10/.008	FT6521266

SINGLE STEM, ROUND "SM" TYPE, STAINLESS STEEL STEM

DESCRIPTION	TYPE/STEM	PART NUMBER
3/4 X 1/4 X 5-1/2	10/.0104	FT6521111

SINGLE STEM, DOUBLE SPIRAL "DS" TYPE



ABRASIVES

WIRE HANDLE COPPER FITTING BRUSH

DESCRIPTION	PART NUMBER
1/8"	CF18
1/4"	CF25
1/2"	CF5
3/8"	CF38
3/4"	CF75
1"	CF1

PACKAGE QUANTITY IS 12

ACID BRUSH

SIZE	WIPE	PART NUMBER
#1	1/4"	CF70210
#2	3/8"	CF70220
#3	1/2"	CF70230

ECONOMY POLY-CHIP BRUSH

WIDTH	TRIM	THICKNESS	PART NUMBER
1"	1-11/16	5/16	CF70440*
1-1/2"	1-11/16	5/16	CF70450*
2"	1-11/16	3/8	CF70460**
3"	1-15/16	7/16	CF70480***

*PACKAGE QUANTITY IS 36, **PACKAGE QUANTITY IS 24,

***PACKAGE QUANTITY IS 12

DREMEL BRISTLE BRUSH

SIZE	PART NUMBER
3/4 X 1/4	FT3260403
9/32 CARBON STEEL, ROTARY	FT3260442
3/16 CARBON STEEL	FT3260443
13/32 X 1/4 CARBON STEEL	FT3260428*

PACKAGE QUANTITY IS 5



ABRASIVES

BATTERY POST & TERMINAL BRUSH

PART NUMBER
MIT5780

PARTS CLEANING BRUSH WOOD HANDLE

PART NUMBER
MIT5880

WELDER BRUSHES

SIZE	DESCRIPTION	PART NUMBER
3 X 7	STAINLESS STEEL, WOOD HANDLE	CF73830
3 X 7	FINE BRASS, WOOD HANDLE	CF73832

PACKAGE QUANTITY IS 12

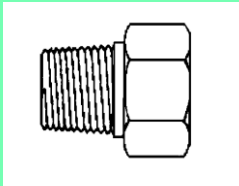


HYDRAULIC ADAPTERS

HYDRAULIC ADAPTERS

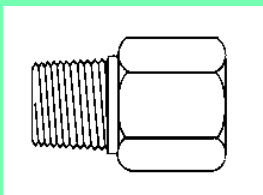
PIPE THREAD

MALE PIPE TO FEMALE PIPE REDUCER BUSHING



DESCRIPTION	MALE THREAD	FEMALE TREAD	PART NUMBER
4MP-2FP	1/4-18	1/8-27	28017
6MP-2FP	3/8-18	1/8-27	28037
6MP-4MP	3/8-18	1/4-18	28038
8MP-4FP	1/2-14	1/4-18	28061
8MP-6FP	1/2-14	3/8-14	28062
12MP-4FP	3/4-14	1/4-18	28085
12MP-6FP	3/4-14	3/8-18	28086
12MP-8FP	3/4-14	1/2-14	28087
16MP-8FP	1-11 1/2	1/2-14	28108
16MP-12FP	1-11 1/2	3/4-14	28109
20MP-12FP	1-1/4-11 1/2	3/4-14	28131
20MP-16FP	1-1/4-11 1/2	1-11 1/2	28132

MALE PIPE TO FEMALE PIPE



DESCRIPTION	MALE THREAD	FEMALE THREAD	PART NUMBER
2MP-4FP	1/8-27	1/4-18	28003
4MP-6FP	1/4-18	3/8-18	28018
6MP-8FP	3/8-18	1/2-14	28039
8MP-12FP	1/2-14	3/4-14	28063
12MP-16FP	3/4-14	1-11 1/2	28088
16MP-16FP	1-11 1/2	1-11 1/2	281100
16MP-20FP	1-11 1/2	1-1/4-11 1/2	28110
20MP-24-FP	1-1/4-11 1/2	1-1/2-11 1/2	28133

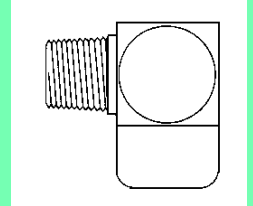
PACKAGE ON ALL IS 1



HYDRAULIC ADAPTERS

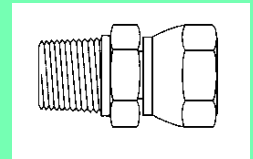
MALE PIPE TO FEMALE PIPE 90° STREET ELBOW

DESCRIPTION	MALE THREAD	FEMALE THREAD	PART NUMBER
2MP-2FP90	1/8-27	1/8-27	28004
4MP-4FP90	1/4-18	1/4-18	28019
6MP-6FP90	3/8-18	3/8-18	28040
8MP-8FP90	1/2-14	1/2-14	28064
12MP-12FP90	3/4-14	3/4-14	28089
16MP-16FP90	1-11 1/2	1-11 1/2	28111
20MP-20FP90	1-1/4-11 1/2	1-1/4-11 1/2	28134



MALE PIPE TO FEMALE PIPE SWIVEL ADAPTER

DESCRIPTION	MALE THREAD	FEMALE THREAD	PART NUMBER
2MP-2FPX	1/8-27	1/8-27	28005
2MP-4FPX	1/8-27	1/4-18	28006
4MP-4FPX	1/4-18	1/4-18	28020
4MP-6FPX	1/4-18	3/8-18	28021
4MP-8FPX	1/4-18	1/2-14	280211
6MP-4FPX	3/8-18	1/4-18	28041
6MP-6FPX	3/8-18	3/8-18	28042
6MP-8FPX	3/8-18	1/2-14	28043
8MP-6FPX	1/2-14	3/8-18	28065
8MP-8FPX	1/2-14	1/2-14	28066
8MP-12FPX	1/2-14	3/4-14	28067
12MP-8FPX	3/4-14	1/2-14	28090
12MP-12FPX	3/4-14	3/4-14	28091
16MP-12FPX	1-11 1/2	3/4-14	28112
16MP-16FPX	1-11 1/2	1-11 1/2	28113
16MP-20FPX	1-11 1/2	1-1/4-11 1/2	28114
20MP-20FPX	1-1/4-11 1/2	1-1/4-11 1/2	28135



PACKAGE ON ALL IS 1



HYDRAULIC ADAPTERS

FEMALE PIPE TEE

DESCRIPTION	FEMALE THREAD	PART NUMBER
2FP-2FP-2FP	1/8-27	28010
4FP-4FP-4FP	1/4-18	28027
6FP-6FP-6FP	3/8-18	28050
8FP-8FP-8FP	1/2-14	28075
12FP-12FP-12FP	3/4-14	28098
16FP-16FP-16FP	1-11 1/2	28122

FEMALE SWIVEL-MALE PIPE TEE

DESCRIPTION	MALE THREAD	FEMALE THREAD	PART NUMBER
2FPX-2FPX-2MP	1/8-27	1/8-27	28011
4FPX-4FPX-4MP	1/4-18	1/4-18	28028
6FPX-6FPX-6MP	3/8-18	3/8-18	28051
8FPX-8FPX-8MP	1/2-14	1/2-14	28076
12FPX-12FPX-12MP	3/4-14	3/4-14	28099
16FPX-16FPX-16MP	1-11 1/2	1-11 1/2	28123

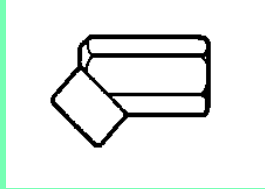
FEMALE PIPE-MALE BRANCH TEE

DESCRIPTION	MALE THREAD	FEMALE THREAD	PART NUMBER
2FP-2FP-2MP	1/8-27	1/8-27	28012
4FP-4FP-4MP	1/4-18	1/4-18	28029
6FP-6FP-6MP	3/8-18	3/8-18	28052
8FP-8FP-8MP	1/2-14	1/2-14	28077
12FP-12FP-12MP	3/4-14	3/4-14	28100
16FP-16FP-16MP	1-11 1/2	1-11 1/2	28124

PACKAGE ON ALL IS 1

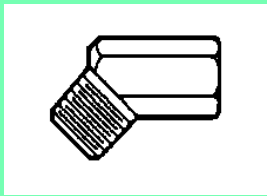


HYDRAULIC ADAPTERS



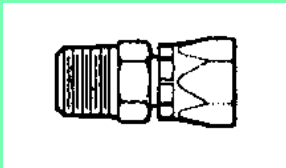
FEMALE PIPE ELBOW 45°

DESCRIPTION	THREAD	PART NUMBER
2FP-2FP45	1/8-27	28150
4FP-4FP45	1/4-18	28151
6FP-6FP45	3/8-18	28152
8FP-8FP45	1/2-14	28153
12FP-12FP45	3/4-14	28154
16FP—16FP45	1-11 1/2	28155



MALE PIPE TO FEMALE PIPE STREET ELBOW 45°

DESCRIPTION	THREAD	PART NUMBER
2MP-2FP45	1/8-27	28160
4MP-4FP45	1/4-18	28161
6MP-6FP45	3/8-18	28162
8MP-8FP45	1/2-14	28163
12MP-12FP45	3/4-14	28164
16MP-16FP45	1-11 1/2	28165
20MP-20FP45	1 1/4-11 1/2	28166



MALE PIPE TO FEMALE JIC SWIVEL

DESCRIPTION	MALE PIPE	FEMALE	PART NUMBER
4MP-4FJX	1/4	1/4	28350
4MP-6FJX	1/4	3/8	28352
6MP-6FJX	3/8	3/8	28354
6MP-8FJX	3/8	1/2	28356
8MP-8FJX	1/2	1/2	28358
8MP-10FJX	1/2	5/8	28360
12MP-12FJX	3/4	3/4	28362
12MP-16FJX	3/4	1	28364
16MP-16FJX	1	1	28366

PACKAGE ON ALL IS 1

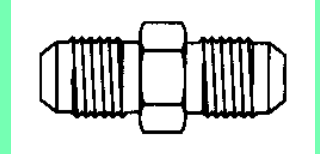


HYDRAULIC ADAPTERS

JIC

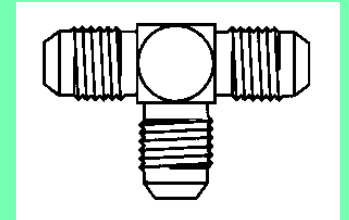
MALE JIC UNION

DESCRIPTION	TUBE O.D.	MALE THREAD	PART NUMBER
4J-4MJ	1/4	7/16-20	28192
5MJ-5MJ	5/16	1/2-20	28212
6MJ-6MJ	3/8	9/16-18	28225
8MJ-8MJ	1/2	3/4-16	28249
10MJ-10MJ	5/8	7/8-14	28273
12MJ-12MJ	3/4	1-1/16-12	28292
16MJ-16MJ	1	1-5/16-12	28312
20MJ-20MJ	1-1/4	1-5/8-12	28330



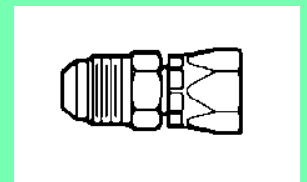
MALE JIC TEE

DESCRIPTION	MALE THREAD	PART NUMBER
4MJ-4MJ-4MJ	7/16-20	28193
6MJ-6MJ-6MJ	9/16-18	28226
8MJ-8MJ-8MJ	3/4-16	28250
10MJ-10MJ-10MJ	7/8-14	28274
12MJ-12MJ-12MJ	1-1/16-12	28293
16MJ-16MJ-16MJ	1-5/16-12	28313
20MJ-20MJ-20MJ	1-5/8-12	28331



MALE JIC TO FEMALE JIC SWIVEL

DESCRIPTION	MALE THREAD	FEMALE THREAD	PART NUMBER
4MJ-4FJX	7/16-20	7/16-20	282110
6MJ-6FJX	9/16-18	9/16-18	282480
8MJ-8FJX	3/4-16	3/4-16	282510
10MJ-10FJX	7/8-14	7/8-14	282750
12MJ-12FJX	1-1/16-12	1-1/16-12	283100



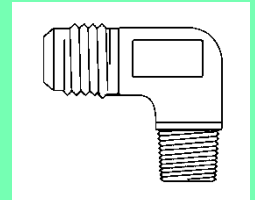


HYDRAULIC ADAPTERS

JIC TO PIPE

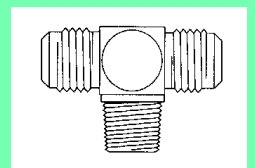
MALE JIC TO MALE PIPE 90° ELBOW

DESCRIPTION	MALE THREAD	PIPE THREAD	PART NUMBER
2MJ-2MP90	5/16-24	1/8-27	28191
4MJ-2MP90	7/16-20	1/8-27	28206
4MJ-4MP90	7/16-20	1/4-18	28207
5MJ-2MP90	1/2-20	1/8-27	28221
5MJ-4MP90	1/2-20	1/4-18	28222
6MJ-2MP90	9/16-18	1/8-27	28241
6MJ-4MP90	9/16-18	1/4-18	28242
6MJ-6MP90	9/16-18	3/8-18	28243
6MJ-8MP90	9/16-18	1/2-14	28244
8MJ-4MP90	3/4-16	1/4-18	28265
8MJ-6MP90	3/4-16	3/8-18	28266
8MJ-8MP90	3/4-16	1/2-14	28267
8MJ-12MP90	3/4-16	3/4-14	28268
10MJ-6MP90	7/8-14	3/8-18	28286
10MJ-8MP90	7/8-14	1/2-14	28287
10MJ-12MP90	7/8-14	3/4-14	28288
12MJ-8MP90	1-1/16-12	1/2-14	28306
12MJ-12MP90	1-1/16-12	3/4-14	28307
16MJ-12MP90	1-5/16-12	3/4-14	28325
16MJ-16MP90	1-5/16-12	1-11 1/2	28326
20MJ-16MP90	1-5/8-12	1-11 1/2	28338
20MJ-20MP90	1-5/8-12	1-1/4-11 1/2	28339



MALE JIC TO MALE JIC ON RUN TO MALE PIPE BRANCH TEE

DESCRIPTION	MALE THREAD	PIPE THREAD	PART NUMBER
4MJ-4MJ-2MP	7/16-20	1/8-27	28208
4MJ-4MJ-4MP	7/16-20	1/4-18	282081
6MJ-6MJ-4MP	9/16-18	1/4-18	28245
8MJ-8MJ-6MP	3/4-16	3/8-18	28269
10MJ-10MJ-8MP	7/8-14	1/2-14	28289
12MJ-12MJ-12MP	1-1/16-12	3/4-14	28308
16MJ-16MJ-16MP	1-5/16-12	1-11 1/2	28327



PACKAGE FOR ALL IS 1

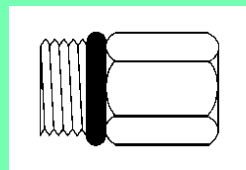


HYDRAULIC ADAPTERS

O-RING BOSS TO PIPE

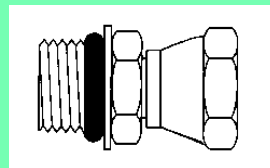
O-RING MALE TO FEMALE PIPE

DESCRIPTION	SAE STRAIGHT THREAD	FEMALE THREAD	PART NUMBER
4MB-2FP	7/16-20	1/8-27	28418
6MB-4FP	9/16-18	1/4-18	28433
6MB-6FP	9/16-18	3/8-18	284331
8MB-4FP	3/4-16	1/4-18	284451
8MB-6FP	3/4-16	3/8-18	28445
10MB-8FP	7/8-14	1/2-14	28462
12MB-8FP	1-1/16-12	1/2-14	28478
12MB-12FP	1-1/16-12	3/4-14	28479
14MB-12FP	1-3/16-12	3/4-14	28491
16MB-16FP	1-5/16-12	1-11-1/2	28495



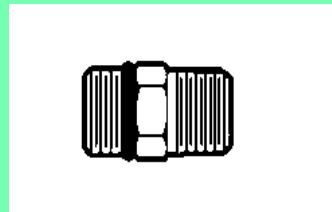
O-RING MALE TO FEMALE PIPE SWIVEL

DESCRIPTION	SAE STRAIGHT THREAD	FEMALE THREAD	PART NUMBER
4MB-4FPX	7/16-20	1/4-18	28419
5MB-4FPX	1/2-20	1/4-18	28425
5MB-8FPX	1/2-20	1/2-14	28426
6MB-4FPX	9/16-18	1/4-18	28434
6MB-6FPX	9/16-18	3/8-18	28435
8MB-4FPX	3/4-16	1/4-18	28446
8MB-6FPX	3/4-16	3/8-18	28447
8MB-8FPX	3/4-16	1/2-14	28448
8MB-12FPX	3/4-16	3/4-14	28449
10MB-6FPX	7/8-14	3/8-18	28463
10MB-8FPX	7/8-14	1/2-14	28464
10MB-12FPX	7/8-14	3/4-14	28465
12MB-8FPX	1-1/16-12	1/2-14	28480
12MB-12FPX	1-1/16-12	3/4-14	28481



O-RING MALE TO MALE PIPE

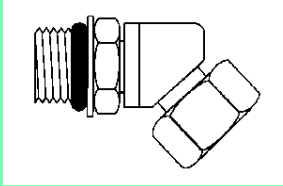
DESCRIPTION	SAE STRAIGHT THREAD	MALE THREAD	PART NUMBER
4MB-2MP	7/16-20	1/8-27	284241
6MB-4MP	9/16-18	1/4-18	284423
6MB-6MP	9/16-18	3/8-18	284422
8MB-6MP	3/4-16	3/8-18	284613
8MB-8MP	3/4-16	1/2-14	284612
10MB-8MP	7/8-14	1/2-14	284772
12MB-8MP	1-1/16-12	1/2-14	284901
12MB-12MP	1-1/16-12	3/4-14	284902
16MB-12MP	1-5/16-12	3/4-14	285021
16MB-16MP	1-5/16-12	1-11-1/2	285022



PACKAGE ON ALL IS 1

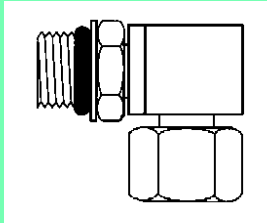


HYDRAULIC ADAPTERS



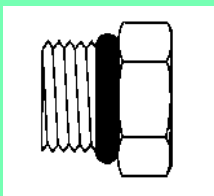
O-RING MALE TO FEMALE PIPE SWIVEL 45°

DESCRIPTION	SAE STRAIGHT THREAD	FEMALE THREAD	PART NUMBER
6MB-4FPX45	9/16-18	1/4-18	284350
6MB-6FPX45	9/16-18	3/8-18	28436
8MB-6FPX45	3/4-16	3/8-18	28450
8MB-8FPX45	3/4-16	1/2-14	28451
10MB-6FPX45	7/8-14	3/8-18	28466
10MB-8FPX45	7/8-14	1/2-14	28467
12MB-12FPX45	1-1/16-12	3/4-14	28482



O-RING MALE TO FEMALE PIPE SWIVEL 90°

DESCRIPTION	SAE STRAIGHT THREAD	FEMALE THREAD	PART NUMBER
4MB-4FPX90	7/16-20	1/4-18	28420
6MB-4FPX90	9/16-18	1/4-18	28437
6MB-6FPX90	9/16-18	3/8-18	28438
8MB-6FPX90	3/4-16	3/8-18	28452
8MB-8FPX90	3/4-16	1/2-14	28453
8MB-12FPX90	3/4-16	3/4-14	28454
10MB-6FPX90	7/8-14	3/8-18	28468
10MB-8FPX90	7/8-14	1/2-14	28469
10MB-12FPX90	7/8-14	3/4-14	28470
12MB-12FPX90	1-1/16-12	3/4-14	28483
16MB-16FPX90	1-5/16-12	1-11-1/2	28496



O-RING MALE PLUG

DESCRIPTION	SAE STRAIGHT THREAD	PART NUMBER
4MB-PLUG	7/16-20	28421
5MB-PLUG	1/2-20	28427
6MB-PLUG	9/16-18	28439
8MB-PLUG	3/4-16	28455
10MB-PLUG	7/8-14	28471
12MB-PLUG	1-1/16-12	28484
14MB-PLUG	1-3/16-12	28492
16MB-PLUG	1-5/16-12	28497
20MB-PLUG	1-5/8-12	28503

PACKAGE ON ALL IS 1

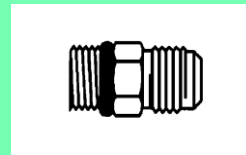


HYDRAULIC ADAPTERS

O-RING BOSS TO JIC

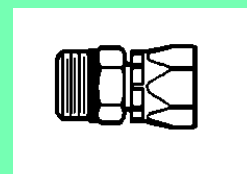
O-RING MALE TO MALE JIC

DESCRIPTION	SAE STRAIGHT THREAD	MALE THREAD	PART NUMBER
4MB-4MJ	7/16-20	7/16-20	28422
5MB-3MJ	1/2-20	3/8-24	28428
5MB-4MJ	1/2-20	7/16-20	28429
5MB-5MJ	1/2-20	1/2-20	28430
6MB-4MJ	9/16-18	7/16-20	28440
6MB-6MJ	9/16-18	9/16-18	28441
6MB-8MJ	9/16-18	3/4-16	28442
8MB-6MJ	3/4-16	9/16-18	28456
8MB-8MJ	3/4-16	3/4-16	28457
8MB-10MJ	3/4-16	7/8-14	28458
8MB-12MJ	3/4-16	1-1/16-12	28459
10MB-6MJ	7/8-14	9/16-18	28472
10MB-8MJ	7/8-14	3/4-16	28473
10MB-10MJ	7/8-14	7/8-14	28474
12MB-8MJ	1-1/16-12	3/4-16	28485
12MB-10MJ	1-1/16-12	7/8-14	28486
12MB-12MJ	1-1/16-12	1-1/16-12	28487
12MB-16MJ	1-1/16-12	1-5/16-12	28488
16MB-10MJ	1-5/16-12	7/8-14	28498
16MB-12MJ	1-5/16-12	1-1/16-12	28499
16MB-16MJ	1-5/16-12	1-5/16-12	28500
20MB-10MJ	1-5/8-12	7/8-14	28504
20MB-12MJ	1-5/8-12	1-1/16-12	28505
20MB-16MJ	1-5/8-12	1-5/16-12	28506
20MB-20MJ	1-5/8-12	1-5/8-12	28507



O-RING MALE TO FEMALE JIC SWIVEL

DESCRIPTION	SAE STRAIGHT THREAD	FEMALE THREAD	PART NUMBER
4MB-4FJX	7/16-20	7/16-20	284221
4MB-6FJX	7/16-20	9/16-18	284222
6MB-4FJX	9/16-18	7/16-20	284401
6MB-6FJX	9/16-18	9/16-18	284441
6MB-8FJX	9/16-18	3/4-16	284442
8MB-6FJX	3/4-16	9/16-18	284561
8MB-8FJX	3/4-16	3/4-16	284611
10MB-8FJX	7/8-14	3/4-16	284731
10MB-10FJX	7/8-14	7/8-14	284741
12MB-12FJX	1-1/16-12	1-1/16-12	284871
16MB-16FJX	1-5/16-12	1-5/16-12	285001
20MB-20FJX	1-5/8-12	1-5/8-12	285071

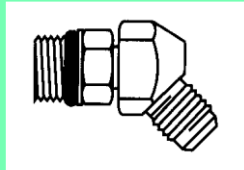


PACKAGE ON ALL IS 1



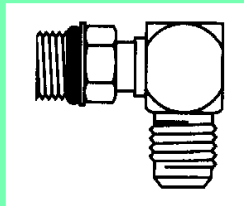
HYDRAULIC ADAPTERS

O-RING MALE TO MALE JIC 45°



DESCRIPTION	TUBE O.D.	THREAD SIZE	PART NUMBER
4MB-4MJ45	1/4	7/16-20	28423
5MB-5MJ45	5/16	1/2-20	28431
6MB-4MJ45	3/8	7/16-20	284421
6MB-6MJ45	3/8	9/16-18	28443
8MB-8MJ45	1/2	3/4-16	28460
10MB-10MJ45	5/8	7/8-14	28475
12MB-12MJ45	3/4	1-1/16-12	28489
14MB-14MJ45	7/8	1 3/16-12	28493
16MB-16MJ45	1	1 5/16-12	28501

O-RING MALE TO MALE JIC 90°



DESCRIPTION	JIC STRAIGHT THREAD	SAE MALE THREAD	PART NUMBER
4MB-4MJ90	7/16-20	7/16-20	28424
4MB-6MJ90	7/16-20	9/16-18	284242
5MB-5MJ90	1/2-20	1/2-20	28432
6MB-4MJ90	9/16-18	7/16-20	284431
6MB-6MJ90	9/16-18	9/16-18	28444
8MB-8MJ90	3/4-16	3/4-16	28461
10MB-8MJ90	7/8-14	3/4-16	28476
10MB-10MJ90	7/8-14	7/8-14	28477
10MB-12MJ90	7/8-14	1-1/16-12	284771
12MB-8MJ90	1-1/16-12	3/4-16	28490
12MB-12MJ90	1-1/16-12	1-1/16-12	284891
14MB-14MJ90	1-3/16-12	1-3/16-12	28494
16MB-16MJ90	1-5/16-12	1-5/16-12	28502

PACKAGE ON ALL IS 1



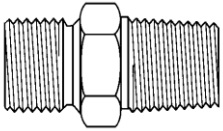
HYDRAULIC ADAPTERS

METRIC

BRITISH STANDARD PIPE THREAD ADAPTERS

MALE BRITISH STANDARD PIPE PARALLEL TO NPTF MALE/FEMALE

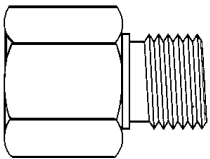
MALE PIPE



DESCRIPTION	PART NUMBER
2MBSPP-2MP	28730
4MBSPP-4MP	28734
6MBSPP-6MP	28738
8MBSPP-8MP	28742
10MBSPP-10MP	28746
12MBSPP-12MP	28750

MALE BRITISH STANDARD PIPE PARALLEL TO NPTF

FEMALE PIPE



DESCRIPTION	PART NUMBER
2MBSPP-2FP	28700
4MBSPP-4FP	28703
6MBSPP-6FP	28707
8MBSPP-8FP	28711
12MBSPP-12FP	28714



AIR BRAKE

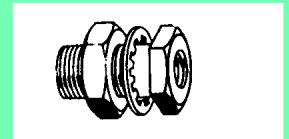
AIR BRAKE

BRASS FITTINGS FOR COPPER TUBING

BULKHEAD CONNECTOR

PIPE THREAD I.D.	STRAIGHT THREAD	LENGTH	PART NUMBER
1/8-27	5/8-18	1 1/2	64185
1/4-18	3/4-16	1 1/2	64186
1/4-18	3/4-16	1 5/16	64187
3/8-18	1-14	1 5/16	64188
1/2-14	1 1/8-14	1 1/2	64189

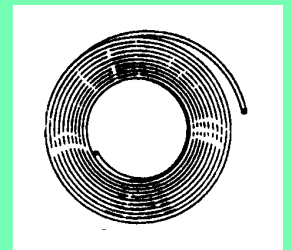
PACKAGE IS 1



NYLON AIR BRAKE TUBING D.O.T. APPROVED

O.D.	WALL THICKNESS	MINI BURST P.S.I.	PART NUMBER
1/8	.023	1000	63360
1/4	.040	1200	63361
3/8	.062	1400	63362
1/2	.062	950	63363
5/8	.092	900	63364
3/4	.092	800	63365

STANDARD PACKAGE IS 100 FT. ALL SIZES CAN BE CUT TO LENGTH

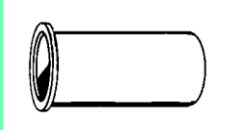




AIR BRAKE

BRASS FITTINGS FOR NYLON TUBING

STAINLESS STEEL INSERT



TUBE SIZE	PART NUMBER	PACKAGE
1/4	641901	25
3/8	641912	25
1/2	641923	25
5/8	641934	25
3/4	641945	25

SLEEVE



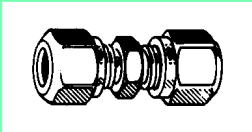
TUBE SIZE	PART NUMBER	PACKAGE
1/4	64200	25
3/8	64201	25
1/2	64202	25
5/8	64203	25
3/4	64204	25

NUT



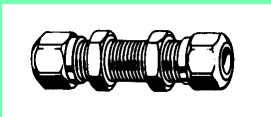
TUBE SIZE	PART NUMBER	PACKAGE
1/4	64210	5
3/8	64211	5
1/2	64212	5
5/8	64213	5
3/4	64214	5

UNION



TUBE SIZE	PART NUMBER	PACKAGE
1/4	64220	1
3/8	64221	1
1/2	64222	1
5/8	64223	1
3/4	64224	1

BULKHEAD UNION



TUBE SIZE	PART NUMBER	PACKAGE
1/4	64230	1
3/8	64231	1
1/2	64232	1



AIR BRAKE FITTINGS

BRASS FITTINGS FOR NYLON TUBING

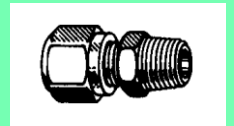
FEMALE CONNECTOR

TUBE SIZE	PIPE THREAD	PART NUMBER
1/4	1/8	64240
1/4	1/4	64241
3/8	1/8	64242
3/8	1/4	64243
3/8	3/8	64244
1/2	3/8	64245
1/2	1/2	64246
5/8	3/8	64247
5/8	1/2	64248
3/4	1/2	64249



MALE CONNECTOR

TUBE SIZE	PIPE THREAD	PART NUMBER
1/4	1/8	64250
1/4	1/4	64251
1/4	3/8	64252
3/8	1/8	64253
3/8	1/4	64254
3/8	3/8	64255
3/8	1/2	64256
1/2	1/4	64257
1/2	3/8	64258
1/2	1/2	64259
5/8	3/8	64260
5/8	1/2	64261
3/4	1/2	64262
3/4	3/4	64263



PACKAGE QUANTITY ON ALL IS 1

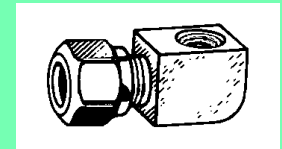


AIR BRAKE

BRASS FITTINGS FOR NYLON TUBING

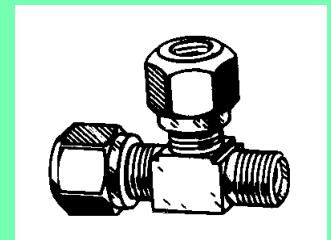
FEMALE ELBOW

TUBE SIZE	PIPE THREAD	PART NUMBER
1/4	1/8	64290
1/4	1/4	64291
3/8	1/8	64292
3/8	1/4	64293
3/8	3/8	64294
1/2	3/8	64295
1/2	1/2	64296
5/8	1/2	64297



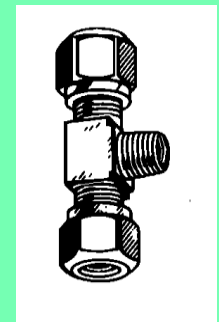
MALE RUN TEE

TUBE SIZE	PIPE THREAD	PART NUMBER
1/4	1/8	64300
1/4	1/4	64301
3/8	1/4	64302
3/8	3/8	64303
1/2	3/8	64304
1/2	1/2	64305
5/8	1/2	64306



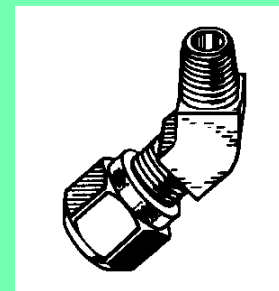
MALE BRANCH TEE

TUBE SIZE	PIPE THREAD	PART NUMBER
1/4	1/8	64310
1/4	1/4	64311
3/8	1/8	64312
3/8	1/4	64313
3/8	3/8	64314
1/2	3/8	64315
1/2	1/2	64316
5/8	1/2	64317



45° MALE ELBOW

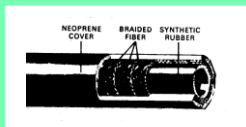
TUBE SIZE	THREAD SIZE	PART NUMBER
1/4	1/8	64320
1/4	1/4	64321
3/8	1/8	64322
3/8	1/4	64323
3/8	3/8	64324
3/8	1/2	64325
1/2	3/8	64326
1/2	1/2	64327
5/8	1/2	64328
3/4	1/2	64329



PACKAGE FOR ALL IS 1

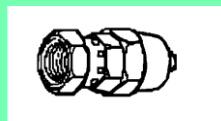


AIR BRAKE



AIR BRAKE HOSE

HOSE I.D.	HOSE O.D.	MAXIMUM PSI	MINIMUM PSI	MINIMUM BEND RADIUS	PART NUMBER
3/8	3/4	900	125	1 3/4	64340
1/2	7/8	900	125	2	64341



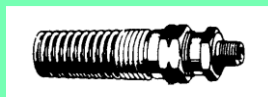
FEMALE SWIVEL CONNECTORS

HOSE I.D.	PART NUMBER
3/8	64342
1/2	64344



ABS ADAPTERS

HOSE I.D.	MALE PIPE	PART NUMBER
3/8	1/4	64530
3/8	3/8	64533
1/2	3/8	64535
1/2	1/2	64537



CONNECTOR WITH SPRING GUARD

HOSE I.D.	THREAD SIZE	PART NUMBER
3/8	1/4-18	64355
3/8	3/8-18	64356
3/8	1/2-14	64357
1/2	3/8-18	64358
1/2	1/2-14	64359



CONNECTOR

HOSE I.D.	THREAD SIZE	PART NUMBER
3/8	1/4-18	64345
3/8	3/8-18	64346
3/8	1/2-14	64347
1/2	3/8-18	64348
1/2	1/2-14	64349

PACKAGE ON ALL IS 1

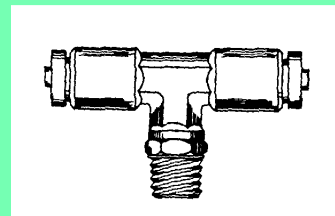


AIR BRAKE

D.O.T. PLUG-IN BRASS FITTINGS FOR NYLON TUBING

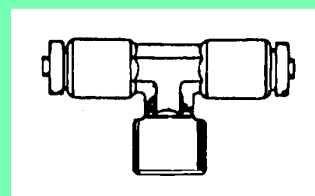
SWIVEL MALE BRANCH TEE

TUBE SIZE	PIPE THREAD	PART NUMBER
1/4	1/8	64475
1/4	1/4	64476
3/8	1/4	64477
3/8	3/8	64478
1/2	3/8	64479



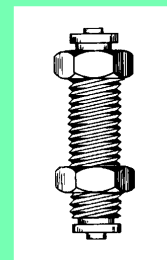
SWIVEL FEMALE BRANCH TEE

TUBE SIZE	PIPE THREAD	PART NUMBER
1/4	1/8	64480
1/4	1/4	64481
3/8	1/4	64482



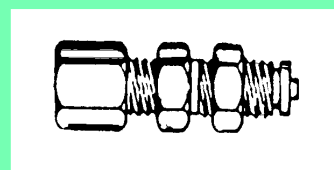
BULKHEAD UNION

TUBE SIZE	EXTERNAL THREAD	PART NUMBER
1/4	1/2-20	64485
3/8	5/8-18	64486
1/2	3/4-16	64487



BULKHEAD UNION COMPRESSION TO PLUG-IN

TUBE SIZE	PART NUMBER
1/4	64488
3/8	64489



FEMALE BULKHEAD UNION

TUBE SIZE	FEMALE PIPE	EXTERNAL THREAD	PART NUMBER
1/4	1/8	1/2-20	64490
1/4	1/4	1/2-20	64491
3/8	1/4	1/2-20	64492



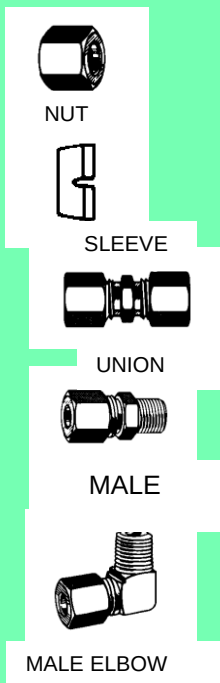
PACKAGE ON ALL IS 1



AIR BRAKE

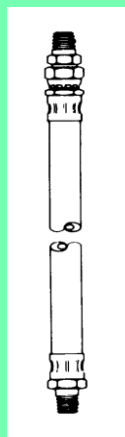
SHIFTER FITTINGS

BRASS FITTINGS FOR NYLON TUBING



DESCRIPTION	PART NUMBER
1/8 D.O.T. NUT	*64330
5/32 D.O.T. NUT	643371
1/8 SPLIT SLEEVE	*64331
5/32 SPLIT SLEEVE	64337
1/8 D.O.T. UNION	64332
5/32 D.O.T. UNION	643372
1/8T-1/16P MALE CONNECTOR	64333
1/8T-1/8P MALE CONNECTOR	64334
5/32T-1/16P MALE CONNECTOR	64338
5/32T-1/8P MALE CONNECTOR	643381
1/8T-1/16P M ELBOW	64335
1/8T-1/8P M ELBOW	64336
5/32T-1/8P M ELBOW	64339

PACKAGE IS 10



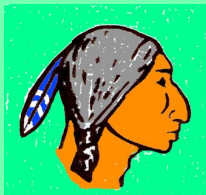
ASSEMBLED AIR BRAKE HOSES

HOSE I.D.	TUBE	LENGTH	PART NUMBER
3/8	1/4	18"	64541
3/8	1/4	24"	64543
3/8	1/4	30"	64545
3/8	1/4	36"	64547
1/2	3/8	20"	64551
1/2	3/8	24"	64553
1/2	3/8	30"	64555
1/2	3/8	36"	64557



HOSE MENDER

HOSE I.D.	PART NUMBER
3/8	64365
1/2	64366



BRASS HOSE BARB

BRASS HOSE BARB

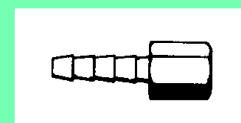
MALE PIPE

HOSE I. D.	PIPE SIZE	PART NUMBER	PACKAGE
3/16	1/8	62500	10
1/4	1/8	62501	10
1/4	1/4	62502	10
1/4	3/8	62503	10
5/16	1/8	62504	10
5/16	1/4	62505	10
3/8	1/8	62506	10
3/8	1/4	62507	10
3/8	3/8	62508	10
1/2	1/4	62509	1
1/2	3/8	62510	1
1/2	1/2	62511	1



FEMALE PIPE

HOSE I.D.	PIPE SIZE	PART NUMBER	PACKAGE
1/4	1/8	62515	10
1/4	1/4	62516	10
5/16	1/4	62517	10
3/8	1/8	62518	10
3/8	1/4	62519	10
3/8	3/8	62520	10
1/2	3/8	62521	1
1/2	1/2	62522	1

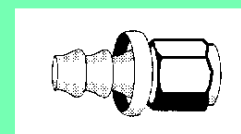


USE HOSE CLAMPS WITH THE ABOVE PARTS

FEMALE PIPE PUSH-ON

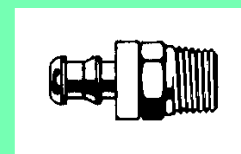
HOSE I.D.	PIPE SIZE	PART NUMBER	PACKAGE
1/4	1/4	62523	5
1/4	3/8	62524	5
3/8	1/8	62526	5
3/8	1/4	62527	5
3/8	3/8	62528	5
1/2	3/8	62529	1
1/2	1/2	625291	1

300 PSI WITHOUT
CLAMPS FOR
PARTS BELOW



MALE PIPE PUSH-ON

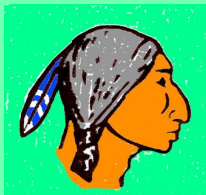
HOSE I.D.	PIPE SIZE	PART NUMBER	PACKAGE
1/4	1/8	62530	10
1/4	1/4	62531	10
3/8	1/8	62532	5
3/8	1/4	62533	5
3/8	3/8	62534	5
1/2	1/4	625341	1
1/2	3/8	62535	5
1/2	1/2	62536	5
5/8	1/2	62537	1
3/4	3/4	62538	5



SAE RIGID MALE PUSH-ON

HOSE I.D.	TUBE SIZE	PART NUMBER	PACKAGE
1/4	1/4	62540	10
1/4	5/16	62541	10
3/8	3/8	62542	5

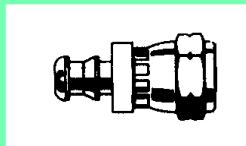




BRASS HOSE BARB

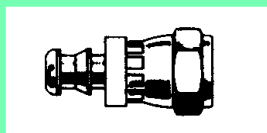
SAE FEMALE SWIVEL PUSH-ON

HOSE I.D.	TUBE SIZE	PART NUMBER	PACKAGE
1/4	1/4	62545	10
1/4	5/16	62546	10
3/8	3/8	62548	5
1/2	1/2	62549	5
5/8	5/8	52550	2
3/4	3/4	62551	2



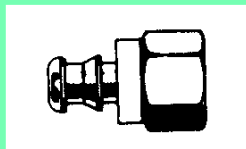
SAE 37° (JIC) FEMALE SWIVEL PUSH-ON

HOSE I.D.	TUBE SIZE	PART NUMBER	PACKAGE
1/4	1/4	62560	10
3/8	3/8	62561	5
1/2	1/2	62562	5
5/8	5/8	62563	2
3/4	3/4	62564	2



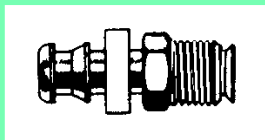
RIGID INVERTED FEMALE PUSH-ON

HOSE I.D.	TUBE SIZE	PART NUMBER	PACKAGE
1/4	3/16	62565	10
1/4	1/4	62566	10
1/4	5/16	62567	10
3/8	5/16	62568	5
3/8	3/8	62569	5
1/2	1/2	62570	5



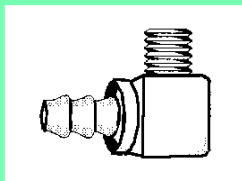
INVERTED MALE SWIVEL PUSH-ON

HOSE I.D.	TUBE SIZE	PART NUMBER	PACKAGE
1/4	3/16	62575	10
1/4	1/4	62576	10
1/4	5/16	62577	10
3/8	5/16	62578	5
3/8	3/8	62579	5
1/2	1/2	62580	5



MALE ELBOW PUSH-ON

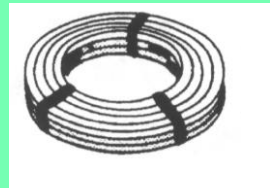
HOSE I.D.	PIPE THREAD	PART NUMBER	PACKAGE
1/4	1/8	625801	1
1/4	1/4	625802	1
3/8	1/8	62581	1
3/8	1/4	62582	1
3/8	3/8	62583	1
1/2	3/8	625831	1



NYLON AIR HOSE W/PVC COATING

1/4 NPT MALE ENDS W/ SPRING GUARDS

I.D.	PART NUMBER	PKG
3/8	62010	25 FT
3/8	62011	50 FT

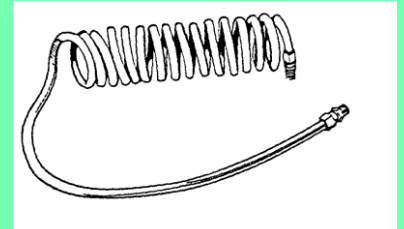




AIR HOSE

POLYURETHANE RECOIL AIR HOSE

HOSE I.D.	PIPE THREAD	PART NUMBER	PKG
1/4	1/4	62020	10 FT
1/4	1/4	62021	20 FT
1/4	1/4	62022	30 FT
3/8	1/4	62023	20 FT
3/8	1/4	62024	30 FT
3/8	3/8	62025	20 FT
3/8	3/8	62026	30 FT

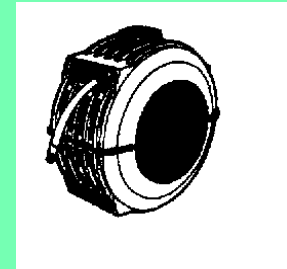


NYLON RECOIL AIR HOSE

HOSE I.D.	PIPE THREAD	PART NUMBER	PKG
1/4	1/4	62027	25 FT

RETRACTABLE AIR HOSE

HOSE I.D.	DESCRIPTION	PART NUMBER
3/8	50 FT REEL	62012
1/2	50 FT REEL	62014





ANAEROBICS

ANAEROBICS

IN THE ABSENCE OF AIR. THEY ARE USED TO
RETAIN BOLTS AND SLEEVES, AND SEAL FROM LEAKAGE

GREEN BOLT LOCKER

GREEN MEDIUM DUTY WICKING BOLT LOCKER AND SEALER MIGRATES
INTO PRE-ASSEMBLED PARTS

SIZE	PART NUMBER
6 ML	70051
24 ML	700511
250 ML	700512

BLUE BOLT LOCKER

BLUE MEDIUM BOLT LOCKER APPLIED BEFORE ASSEMBLY, PREVENTS
VIBRATION LOOSENING AND SEALS FROM LEAKAGE

SIZE	PART NUMBER
6 ML	70052
24 ML	700521
250 ML	700522

RED BOLT LOCKER

RED HEAVY DUTY SLEEVE AND BEARING RETAINER SECURES LARGE
FASTENERS, STUDS, AND BUSHINGS

SIZE	PART NUMBER
6 ML	70053
24 ML	700531
250 ML	700532



VIBRA-TITE

RE-USABLE THREAD LOCKER
30CC

70055

VIBRA-TITE

MEDIUM STRENGTH
.068FL OZ THREAD LOCKER

ND12199

SUPER GLUE

INSTANTLY BONDS GLASS, METAL, PLASTICS, AND RUBBER

700501-GEL

700502-LIQUID



PARKER O-LUBE

O-RING LUBRICANT 4FL OZ TUBE **73000**



ANAEROBICS

LOCTITE THREAD LOCKER

SIZE		PART NUMBER
10 ML	242	LOC24221
10 ML	243	LOC1329837
10 ML	262	LOC26221
50 ML	242	LOC24231
50 ML	262	LOC26231

LOCTITE

404 ADHESIVE

.033 OZ LOC46551

LOCTITE

680 RETAINING COMPOUND

.34 OZ LOC1835205

SOLUTION 34

HYDRAULIC/PNEUMATIC SEALANT

10 ML 70057

50 ML 70058

250 ML 70059

BVA OILER TEL-SPOUT

4FL OZ 70398



ANCHORING DEVICES

ANCHORING DEVICES

CONICAL PLASTIC ANCHORS

SCREW DIAMETER & LENGTH	DRILL	PART NUMBER
4,6,8 X 3/4	3/16	19500
6,8,10 X 7/8	3/16	19501
8,10,12 X 1	1/4	19502
14,16 X 1 1/2	5/16	19503

PACKAGE QUANTITY IS 100

CONICAL PLASTIC ANCHOR KITS

DESCRIPTION	ANCHORS	SCREWS	MASONRY BITS	PART NUMBER
6 X 7/8	100	100	(1) 3/16	19505
10 X 1	100	100	(1) 1/4	19506
14 X 1 1/2	60	60	(1) 5/16	19507

PACKAGE QUANTITY IS ONE

SPRING WING TOGGLE HEADS

STEEL ZINC PLATED

SCREW SIZE	DRILL SIZE	PART NUMBER	PACKAGE
1/8 (6-32)	1/2	19570	100
8-32	5/8	19571	100
3/16 (10-24)	5/8	19572	100
1/4-20	3/4	19573	100
5/16-18	7/8	19574	100
3/8-16	7/8	19575	100
1/2-13	1 1/8	19576	100



ANCHORING DEVICES

ROUND HEAD SPRING WING TOGGLE BOLTS STEEL ZINC PLATED

DIAMETER 1/8 (6-32)			
LENGTH	DRILL SIZE	PART NUMBER	PACKAGE
2	1/2	19540	100
3	1/2	19541	100
4	1/2	19542	100
5	1/2	19543	100

DIAMETER 3/16 (10-24)			
LENGTH	DRILL SIZE	PART NUMBER	PACKAGE
2	5/8	19548	100
3	5/8	19549	100
4	5/8	19550	100
5	5/8	19551	100
6	5/8	19552	100

DIAMETER 1/4-20			
LENGTH	DRILL SIZE	PART NUMBER	PACKAGE
3	3/4	19554	100
4	3/4	19555	100
5	3/4	19556	100
6	3/4	19557	100

DIAMETER 5/16-18			
LENGTH	DRILL SIZE	PART NUMBER	PACKAGE
3	7/8	19558	100
4	7/8	19559	100
5	7/8	19560	100
6	7/8	19561	100

DIAMETER 3/8-16			
LENGTH	DRILL SIZE	PART NUMBER	PACKAGE
3	7/8	19562	100
4	7/8	19563	100
5	7/8	19564	100
6	7/8	19565	100

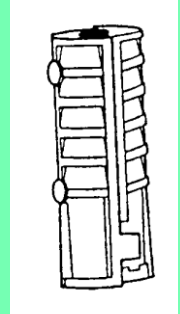
DIAMETER 1/2-13			
LENGTH	DRILL SIZE	PART NUMBER	PACKAGE
4	1 1/4	19566	100
5	1 1/4	19567	100
6	1 1/4	19568	100



ANCHORING DEVICES

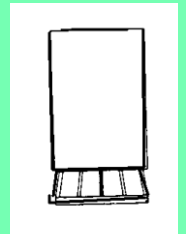
LAG SCREW EXPANSION SHIELDS ZINC ALLOY

SCREW SIZE	DRILL SIZE	PART NUMBER	PACKAGE
1/4 X 1	1/2	19580	50
1/4 X 1 1/2	1/2	19581	50
5/16 X 1 1/4	1/2	19582	50
5/16 X 1 3/4	1/2	19583	50
3/8 X 1 3/4	5/8	19584	50
3/8 X 2 1/2	5/8	19585	50
1/2 X 2	3/4	19586	50
1/2 X 2 1/2	3/4	19587	25
5/8 X 2	7/8	19588	25
5/8 X 3 1/2	7/8	19589	25
3/4 X 2 1/8	1	19590	25
3/4 X 3 1/2	1	19591	25



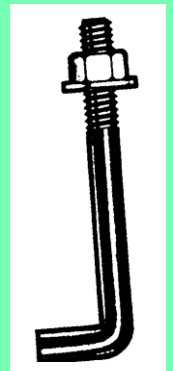
MACHINE SCREW ANCHORS LEAD

SIZE	DRILL SIZE	ANCHOR LENGTH	PART NUMBER	PACKAGE
6-32	1/4	3/8	19620	100
8-32	5/16	1/2	19621	100
10-24	3/8	5/8	19622	100
12-24	7/16	11/16	19623	100
1/4-20	1/2	7/8	19624	100
5/16-18	5/8	1	19625	100
3/8-16	3/4	1 1/4	19626	100
1/2-13	7/8	1 1/2	19627	100
5/8-11	1 1/8	2	19628	100
3/4-10	1 1/4	2 1/4	19629	100



CONCRETE ANCHOR L BOLTS STEEL ZINC PLATED

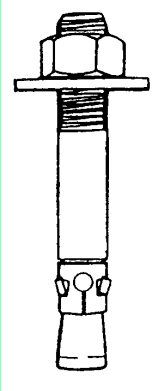
SIZE	MINIMUM THREAD LENGTH	PART NUMBER	PACKAGE
3/8 X 6	2 3/4	19640	50
3/8 X 8	2 3/4	19642	50
3/8 X 10	2 3/4	19644	50
1/2 X 6	2 3/4	19646	50
1/2 X 8	2 3/4	19648	50
1/2 X 10	2 3/4	19650	50





ANCHORING DEVICES

STUD BOLT ANCHORS ZINC PLATED



DIAMETER 1/4-20			
OVERALL LENGTH	THREAD LENGTH	PART NUMBER	PACKAGE
1-3/4	7/8	19593	100
2-1/4	1-3/8	19594	50
3-1/4	2	19595	50

DIAMETER 3/8-16			
OVERALL LENGTH	THREAD LENGTH	PART NUMBER	PACKAGE
2-1/4	1	19596	50
2-3/4	1-1/2	19597	50
3	1-13/16	195971	50
3-3/4	2-1/2	19598	50
5	2-13/16	19599	25
6-1/2	4	195991	25

DIAMETER 1/2-13			
OVERALL LENGTH	THREAD LENGTH	PART NUMBER	PACKAGE
2-3/4	1-5/16	19600	25
3	1-13/16	196001	25
3-1/4	2	196002	25
3-3/4	2-5/16	19601	25
4-1/4	2-13/16	19602	25
5-1/2	3-1/4	19603	25
7	4	19604	25
8-1/2	4	196041	10
10	4	196042	1
12	4	196043	1

DIAMETER 5/8-11			
OVERALL LENGTH	THREAD LENGTH	PART NUMBER	PACKAGE
3-1/2	1-13/16	19605	10
4-1/2	2-7/8	19606	10
5	3-5/16	196061	10
6	4	19607	10
7	4	196071	10
8-1/2	4	19608	10
10	4	196081	1
12	4	196082	1

DIAMETER 3/4-10			
OVERALL LENGTH	THREAD LENGTH	PART NUMBER	PACKAGE
4-1/4	2-3/8	19609	10
4-3/4	2-13/16	196091	10
5-1/2	3-1/2	19610	10
6-1/4	4	196101	10
7	4	19611	10
8-1/2	4	19612	10
10	4	19613	1
12	4	196131	1

DIAMETER 1-8			
OVERALL LENGTH	THREAD LENGTH	PART NUMBER	PACKAGE
6	3-1/4	19614	1
9	3-1/4	19615	1
12	4	19616	1

DRILL SIZE IS THE SAME AS THE NOMINAL THREAD DIAMETER



ANCHORING DEVICES

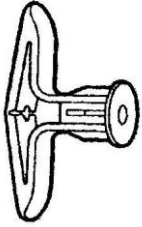
DRIVE RIVETS

3/16 DIAMETER			
GRIP LENGTH	LENGTH UNDER HEAD	UNIVERSAL HEAD 3/8	BRAZIER HEAD 15.32
3/32	1/4	19700	19720
1/8	9/32	19702	19722
3/16	11/32	19704	19724
1/4	13/32	19706	19726
5/16	15/32	19708	19728
3/8	17/32	19710	19730
1/2	21/32	19712	19732
3/16 DIAMETER 5/8 LINER HEAD			
GRIP LENGTH	LENGTH UNDER HEAD	PART NUMBER	
11/64	1/4	19740	
17/64	9/32	19742	
3/8	11/32	19744	
15/32	13/32	19746	
37/64	15/32	19748	
5/8	17/32	19750	
3/4	21/32	19752	
7/8		19754	
31/32		19756	

1/4 DIAMETER			
GRIP LENGTH	LENGTH UNDER HEAD	UNIVERSAL HEAD 1/2	BRAZIER HEAD 5/8
1/8	9/32	19760	19780
3/16	11/32	19762	19782
1/4	13/32	19764	19784
5/16	15/32	19766	19786
3/8	17/32	19768	19788
7/16	19/32	19770	19790
1/2	21/32	19772	19792
5/8			19800
7/8			19802
1			19804
1 1/8			19806
1 3/8			19808



ANCHORING DEVICES



TOGGLERS FOR HOLLOW WALLS

MFG NUMBER	MATERIAL THICKNESS	PART NUMBER	PACKAGE
TA	1/8-1/4	19830	100
TB	3/8-1/2	19831	100
TC	5/8-3/4	19832	100
TH	3/8-1/2	19833	100

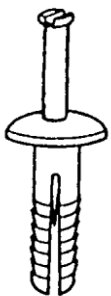
PART NUMBER 19833 HAS A HOOK



SNAP TOGGLE

SIZE	PART NUMBER	PACKAGE
3/16-24	19834	50

NYLON ANCHORS



SIZE	TRUSS HEAD NUMBER	ROUND HEAD NUMBER	PACKAGE
3/16 X 3/4	19840	19850	100
3/16 X 1	19841	19851	100
3/16 X 1 1/2	19842		100
1/4 X 1/2	19843		100
1/4 X 3/4	19844		100
1/4 X 1	19845	19852	100
1/4 X 1 1/2	19846	19853	100
1/4 X 2	19847	19854	100

PLASTIC TRUSS TAP-IT

SIZE	PART NUMBER	PACKAGE
1/4X1	19860	100



ASSORTMENTS

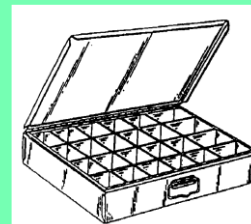
SHEET METAL SCREWS

PAN HEAD

80021, 80021L

15 ITEMS, 625 PIECES

17006 6 X 1/4	17008 6 X 1/2	17010 6 X 3/4
17015 8 X 3/8	17016 8 X 1/2	17018 8 X 3/4
17020 8 X 1	17028 10 X 1/2	17030 10 X 3/4
17032 10 X 1	17033 10 X 1 1/4	17043 12 X 1
17052 14 X 3/4	17054 14 X 1	17056 14 X 1 1/2

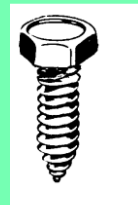


HEX HEAD

80022, 80022L

14 ITEMS, 525 PIECES

17220 8 X 1/2	17230 10 X 1/2	17233 10 X 1
17242 12 X 1/2	17245 12 X 1	17259 14 X 1/2
17261 14 X 3/4	17262 14 X 1	17263 14 X 1 1/4
17275 5/16 X 3/4	17276 5/16 X 1	17277 5/16 X 1 1/4
17278 5/16 X 1 1/2	17282 3/8 X 1	



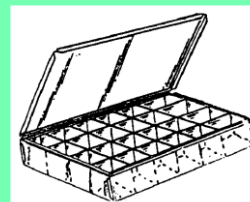
PLASTIC TRAY ASSORTMENTS

PAN HEAD

80051

9 ITEMS, 210 PIECES

17006 6 X 1/4	17018 8 X 3/4	17030 10 X 3/4
17010 6 X 3/4	17020 8 X 1	17032 10 X 1
17016 8 X 1/2	17028 10 X 1/2	17054 14 X 1



HEX HEAD

80052

7 ITEMS, 145 PIECES

17220 8 X 1/2	17242 12 X 1/2	17262 14 X 1
17230 10 X 1/2	17245 12 X 1	
17233 10 X 1	17259 14 X 1/2	



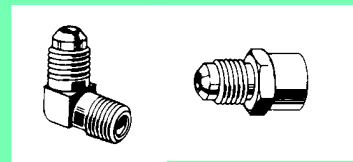
ASSORTMENTS

BRASS FITTINGS

SAE FLARE

80070L 20 ITEMS, 50 PIECES

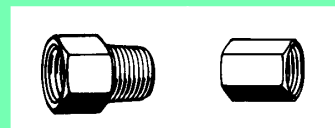
63452	63453	63454	63455	63474
63475	63476	63477	63497	63498
63499	63500	63501	63502	63506
63597	63536	63538	63541	63544



INVERTED FLARE

80071L 23 ITEMS, 72 PIECES

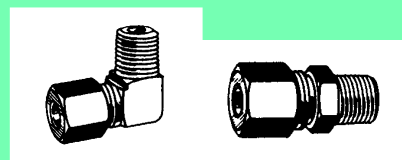
63603	63604	63605	63606	63612	63613
63614	63619	63620	63621	63622	63623
63625	63627	63637	63638	63641	63643
63649	63650	63651	63653	63615	



COMPRESSION

80072L 24 ITEMS, 99 PIECES

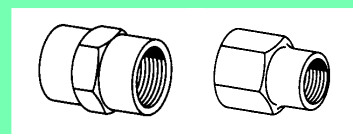
63655	63656	63657	63658	63659	63666
63667	63668	63669	63670	63677	63678
63679	63680	63681	63695	63696	63698
63701	63704	63729	63730	63732	63734



PIPE

80073L 24 ITEMS, 49 PIECES

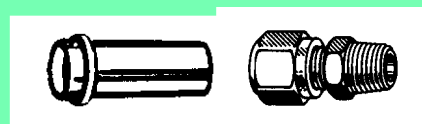
63740	63741	63742	63743	63750	63751
63752	63755	63761	63762	63763	63764
63775	63776	63777	63778	63805	63806
63807	63808	63810	63812	63813	63814



NYLON AIR BRAKE

80074L 24 ITEMS, 70 PIECES

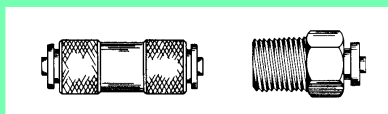
64190	64191	64192	64193	64200	64201
64202	64203	64210	64211	64212	64213
64220	64221	64222	64223	64250	64254
64258	64261	64275	64279	64283	64286



D.O.T. PLUG-IN

80075L 23 ITEMS, 59 PIECES

64425	64426	64427	64430	64431	64432
64435	64436	64445	64446	64447	64448
64449	64450	64451	64452	64453	64456
64459	64461	64475	64477	64479	



DROP THE "L" FOR THE SMALL TRAYS



ASSORTMENTS

GRADE 5 HEX HEADS COURSE & FINE THREADS

80000 COARSE THREADS

63 ITEMS, 2029 PIECES IN A 72 OPENING BIN. 1/4 THROUGH 3/4 DIAMETERS UP TO 5 INCHES LONG. NUTS, FLATS AND LOCKS. 9 COMPARTMENTS LEFT OPEN FOR EXPANSION.

80001 COARSE THREADS

40 ITEMS IN A 72 COMPARTMENT BIN 3250 PIECES. 1/4 THROUGH 1/2 DIAMETERS 1/2 X 3 IS LONGEST BOLT. NUTS, FLATS AND LOCKS. ALL BIN ASSORTMENTS COME WITH LABELS. THERE ARE 32 OPEN COMPARTMENTS IN THIS ASSORTMENT WHICH LEAVES ROOM FOR LONGER BOLTS OR OTHER ITEMS.

80002 COARSE THREADS

80003 FINE THREADS

72 ITEMS IN A 72 COMPARTMENT, 4038 PIECES. 1/4 THROUGH 7/8 DIAMETERS WITH 7/8 X 6 THE LONGEST BOLT. NUTS, FLATS AND LOCKS FOR GRADE 5 CAP SCREWS.

80004 COARSE THREADS

80005 FINE THREADS

40 COMPARTMENT BIN WITH 40 ITEMS, 3250 PIECES. 1/4 THROUGH 1/2, 1/2 X 3 IS LONGEST BOLT.

83004 THIS IS THE SAME ASSORTMENT AS 80004 WITH OUT A BIN.

80007 COARSE THREADS

72 BIN 72 ITEMS 2569 PIECES 1/4 THROUGH 7/8 DIAMETERS WITH 7/8 X 6 THE LARGEST. NUTS, FLATS AND LOCKS. THIS IS A GOOD STARTER ASSORTMENT BECAUSE THERE IS A WIDE VARIETY OF PRODUCT FOR NOT MUCH MONEY.

80008 COARSE THREADS

80013 FINE THREADS

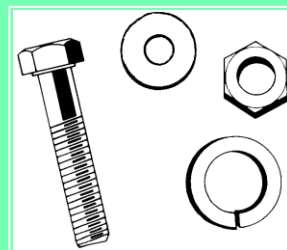
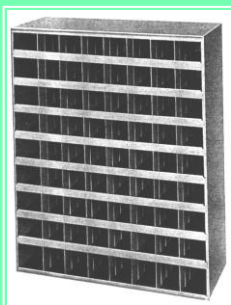
THESE ARE OUR MOST POPULAR ASSORTMENTS. 40 ITEMS IN A 40 HOLE BIN, 1,950 PIECES. 1/4 THROUGH 1/2 DIAMETERS 1/2 X 3 IS THE LONGEST. NUTS, FLATS AND LOCKS.

80009 COARSE THREAD ASSORTMENT WITH OUT BIN

80014 FINE THREAD ASSORTMENT WITH OUT BIN

80015 COARSE AND FINE THREAD

72 HOLE BIN, 70 ITEMS, 2896 PIECES. 1/4 THROUGH 1/2 DIAMETER WITH 1/2 X 3 THE LARGEST. NUTS, FLATS, LOCKS.



GRADE 5 HEX CAP SCREWS ARE COLD HEADED FROM MEDIUM CARBON STEEL AND THEN HEAT TREATED TO A ROCKWELL HARDNESS OF C 25-34. THIS GIVES THEM A TENSILE STRENGTH OF 120,000 PSI . THEY ARE THEN PLATED WITH ZINC AND CLEAR CHROMATE FOR PROTECTION FROM THE WEATHER. THE PREPONDERANCE OF THESE PRODUCTS ARE DOMESTIC.



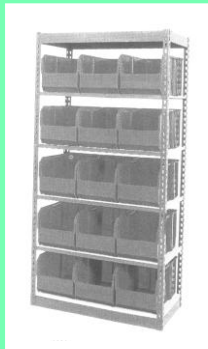
ASSORTMENTS

SHELVES AND BINS



90200

5 SHELF UNIT 36"X12"X7FT



90201

36" X 12" INDIVIDUAL SHELVES

90202

COMPLETE SHELF WITH BINS

90208

18" X 36" X 7FT ADD-ON SOLID SHELF UNIT



90203

TOOL BENCH

SHELF BINS

DESCRIPTION	PART NUMBER
2-3/4 X 12 X 4 RED	90210R
2-3/4 X 12 X 4 YELLOW	90210Y
2-3/4 X 12 X 4 BLUE	90210B
4-1/8 X 12 X 4 IVORY	90212I
4-1/8 X 12 X 4 RED	90212R
4-1/8 X 12 X 4 YELLOW	90212Y
4-1/8 X 12 X 4 BLUE	90212B
6-5/8 X 12 X 4 IVORY	90214I
6-5/8 X 12 X 4 RED	90214R
6-5/8 X 12 X 4 YELLOW	90214Y
6-5/8 X 12 X 4 BLUE	90214B
8-1/8 X 12 X 4 RED	90216R
8-1/8 X 12 X 4 YELLOW	90216Y
8-1/8 X 12 X 4 BLUE	90216B
11-1/8 X 12 X 4 RED	90218R
11-1/8 X 12 X 4 YELLOW	90218Y
11-1/8 X 12 X 4 BLUE	90218B

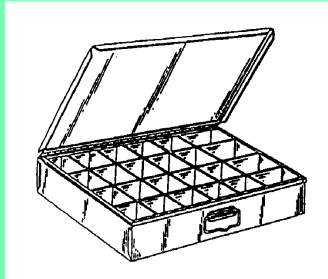
PACKAGE QUANTITY IS 1



ASSORTMENTS

METAL TRAY ASSORTMENTS

LARGE METAL TRAYS



90004 - 12 COMPARTMENTS
90005 - 15 COMPARTMENTS
90006 - 20 COMPARTMENTS
90021 - 21 COMPARTMENTS
90024 - 24 COMPARTMENTS
90032 - 32 COMPARTMENTS
DIMENSIONS: 18 X 12 X 3

SMALL METAL TRAYS

90007 - 12 COMPARTMENTS
90008 - 16 COMPARTMENTS
90009 - 20 COMPARTMENTS
90010 - 24 COMPARTMENTS
90015 - 21 COMPARTMENTS
DIMENSIONS: 13-1/4 X 9-1/4 X 2



D90006H

6 HORIZONTAL COMPARTMENTS METAL TRAY

90020

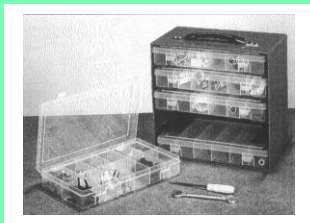
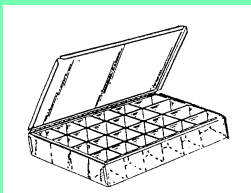
LARGE ADJUSTABLE TRAY

90016

PLASTIC DIVIDERS FOR SCOOP TRAYS

PLASTIC BOXES

**90018 - PLASTIC BOX WITH ADJUSTABLE
COMPARTMENTS**



CLEAR POLYPROPYLENE TRAYS

D90006P - 6 COMPARTMENTS
D90012P - 12 COMPARTMENTS
D90016P - 16 COMPARTMENTS
D90018P - 18 COMPARTMENTS
D90024P - 24 COMPARTMENTS

D90011P - LARGE D90013P - SMALL

5 DRAWER METAL RACK FOR POLYPROPYLENE TRAYS



ASSORTMENTS

METRIC CAP SCREW

80080 AND 80080L*

24 ITEMS, 340 PIECES

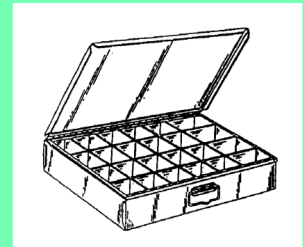
M6 X 12	M6 X 20	M6 X 25	M6 X 30	M6 X 35	M8 X 16
M8 X 20	M8 X25	M8 X 30	M8 X 35	M10 X 20	M10 X 25
M10 X 30	M10 X 35	M10 X 40	M6 NUT	M8 NUT	M10 NUT
M6 LOCK WASHER	M8 LOCK WASHER	M10 LOCK WASHER	M6 FLAT WASHER	M8 FLAT WASHER	M10 FLAT WASHER



80082L*

22 ITEMS, 256 PIECES

M8 NUT	M8 X 20	M10 NUT	M10 X 25	M12 NUT	M12 X 30
M8 LOCK WASHER	M8 X 35	M10 LOCK WASHER	M10 X 30	M12 LOCK WASHER	M12 X 35
M8 FLAT WASHER		M10 FLAT WASHER	M10 X 35	M12 FLAT WASHER	M12 X 40
M8 X 16		M10 X 20	M10 X 40	M12 X 25	M12 X 50



*LARGE TRAY



ASSORTMENTS

PHILLIPS PAN HEAD SHEET METAL SCREWS

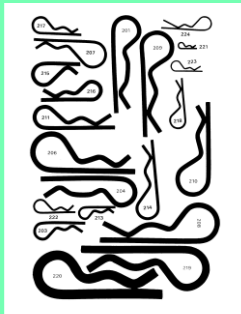
800210 AND 800210L*
15 ITEMS, 625 PIECES



6 X 3/8	6 X 1/2	6 X 3/4
8 X 3/8	8 X 1/2	8 X 3/4
8 X 1	10 X 1/2	10 X 3/4
10 X 1	10 X 1-1/4	12 X 1
14 X 3/4	14 X 1	14 X 1-1/2

HAIR PINS

80016L*
15 ITEMS, 240 PIECES



#3 3/32 X 1-5/8	#6 3/16 X 3-1/4	#7 3/32 X 2-5/16
#8 3/16 X 3-3/4	#9 5/32 X 3-5/16	#10 5/32 X 2-15/16
#11 1/8 X 2-9/16	#13 3/32 X 1-3/16	#16 1/8 X 1-3/4
#17 3/32 X 1-9/16	#19 1/4 X 4-3/8	#20 5/16 X 3-15/16
#21 3/64 X 9/16	#22 1/16 X 1-5/16	#24 3/64 X 1-9/16



*LARGE TRAY



ASSORTMENTS

GREASE FITTINGS

80030 AND 80030L* 8 ITEMS, 155 PIECES

1/4-28 SHORT	1/4-28 STRAIGHT LONG	1/4-28 STRAIGHT 1" LONG
1/4-28 45° ELBOW	1/4-28 90° ELBOW	
1/8 PIPE SHORT	1/8 PIPE 45° ELBOW	1/8 PIPE 90° ELBOW

SLOTTED ROUND HEAD MACHINE SCREWS

80031 AND 80031L* 20 ITEMS, 1250 PIECES

6-32 NUT	6 X 1/2	6 X 3/4	6 X 1
8-32 NUT	8 X 1/2	8 X 3/4	8 X 1
10-32 NUT	10-32 X 1/2	10-32 X 3/4	10-32 X 1
10-24 NUT	10-24 X 1/2	10-24 X 3/4	10-24 X 1
1/4-20 NUT	1/4-20 X 1/2	1/4-20 X 3/4	1/4-20 X 1

*LARGE TRAY

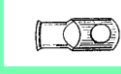
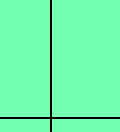


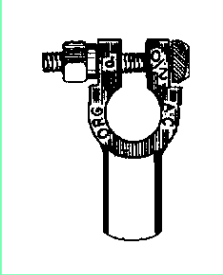
ASSORTMENTS

CRIMPABLE BATTERY TERMINAL KITS IN LARGE METAL TRAYS

80036L*

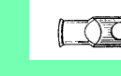
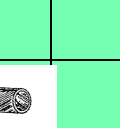
7 ITEMS, 55 PIECES

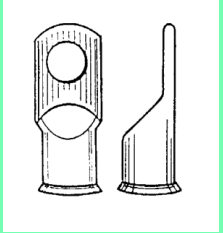
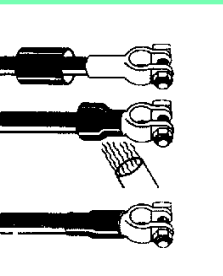
52057 4 GA TERMINAL	52229 4 GA 3/8 EYE COPPER LUG	53355 3/4 X 6 BLK. SHRINK TUBE	53356 3/4 X 6 RED SHRINK TUBE	52653 CRIMP TOOL
52227 4 GA 1/4 EYE COPPER LUG	52228 4 GA 5/16 EYE COPPER LUG			
				



80037L*

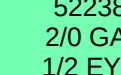
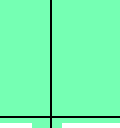
7 ITEMS, 45 PIECES

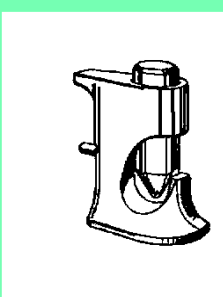
52058 1 GA. POS. BATT. TERM	52230 2 GA. 3/8 EYE	53355 3/4 X 6 BLK. SHRINK TUBE	53356 3/4 X 6 RED SHRINK TUBE	52653 CRIMP TOOL
52059 1 GA. NEG. BATT. TERM	52231 2 GA. 1/2 EYE			
				



80038L*

8 ITEMS, 55 PIECES

52062 2/0 GA. POS. BATT. TERM.	52236 2/0 GA. 5/16 EYE	53355 3/4 X 6 BLK. SHRINK TUBE	53356 3/4 X 6 RED SHRINK TUBE	52653 CRIMP TOOL
52063 2/0 GA. NEG. BATT. TERM.	52237 2/0 GA. 3/8 EYE			
	52238 2/0 GA. 1/2 EYE			





ASSORTMENTS

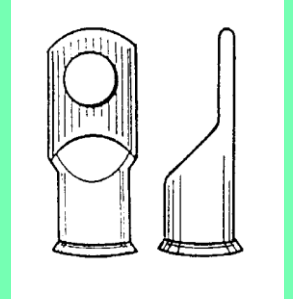
CRIMPABLE BATTERY TERMINAL KIT IN LARGE METAL TRAY

80039L

COPPER LUGS

12 ITEMS, 121 PIECES

52220 8 GA. 1/4 EYE	52227 4 GA. 1/4 EYE	52234 1/0 GA. 3/8 EYE
52223 8 GA. 3/8 EYE	52229 4 GA. 3/8 EYE	52235 1/0 GA. 1/2 EYE
52224 6 GA. 1/4 EYE	52230 2 GA. 3/8 EYE	52237 2/0 GA. 3/8 EYE
52226 6 GA. 3/8 EYE	52231 2 GA. 1/2 EYE	52238 2/0 GA. 1/2 EYE



FINE THREAD SET SCREWS IN LARGE METAL TRAY

821151L

14 ITEMS, 236 PIECES

11304 6-40 X 3/8	11314 10-32 X 3/8	11326 1/4-28 X 1/2	11335 5/16-24 X 1/2	11346 3/8-24 X 3/4
11307 8-36 X 1/4	11316 10-32 X 1/2	11328 1/4-28 X 3/4	11338 5/16-24 X 1	11347 3/8-24 X 1
11309 8-36 X 3/8	11324 1/4-28 X 3/8	11333 5/16-24 X 3/8	11344 3/8-24 X 1/2	





ASSORTMENTS

O-RING TRAY ASSORTMENTS

80076L

20 ITEMS, 200 PIECES IN METAL TRAY

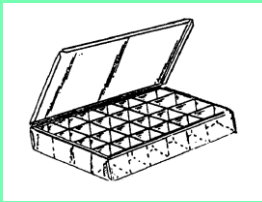


73006 1/8 X 1/4	73011 5/16 X 7/16	73114 5/8 X 13/16	73216 1-1/8 X 1-3/8
73007 5/32 X 9/32	73012 3/8 X 1/2	73116 3/4 X 15/16	73218 1-1/4 X 1-1/2
73008 3/16 X 5/16	73111 7/16 X 5/8	73210 3/4 X 1	73220 1-3/8 X 1-5/8
73009 7/32 X 11/32	73112 1/2 X 11/16	73212 7/8 X 1-1/8	73222 1-1/2 X 1-3/4
73010 1/4 X 3/8	73113 9/16 X 3/4	73214 1 X 1-1/4	73326 1-5/8 X 2

O-RING METRIC ASSORTMENT IN A MOLDED CASE

80079

36 SIZES 500 RINGS



PLASTIC TRAY

80077

18 ITEMS, 90 PIECES

73006 1/8 X 1/4	73009 7/32 X 11/32	73012 3/8 X 1/2	73112 1/2 X 11/16	73115 11/16 X 7/8	73211 13/16 X 1-1/16
73007 5/32 X 9/32	73010 1/4 X 3/8	73110 3/8 X 9/16	73113 9/16 X 3/4	73116 3/4 X 15/16	73212 7/8 X 1-1/8
73008 3/16 X 5/16	73011 5/16 X 7/16	73111 7/16 X 5/8	73114 5/8 X 13/16	73210 3/4 X 1	73213 15/16 X 1-3/16



KEY STOCK & THREADED ROD RACKS

KEY STOCK & THREADED ROD RACKS

KEY STOCK RACK

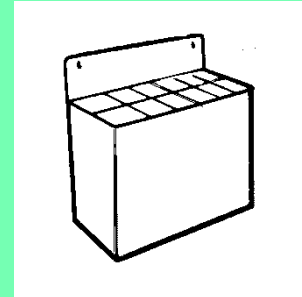
90030

10-1/2" WIDE

6" HIGH

4-5/8" DEEP

1-1/2" X 1-1/2" COMPARTMENTS



THREADED ROD RACK

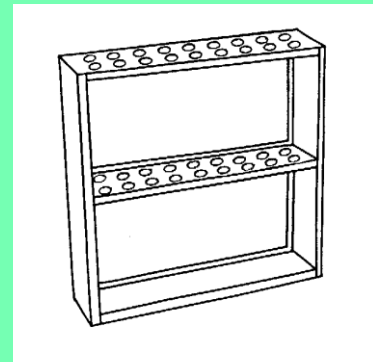
90031

16" WIDE

16" HIGH

7-1/2" DEEP

2-1/2" HOLE SIZE



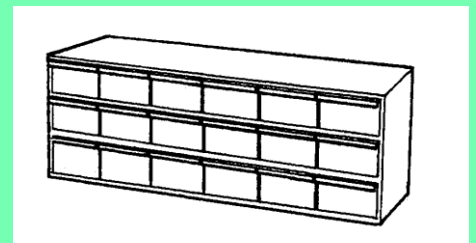
18 DRAWER CABINET

90000

34" WIDE

10-3/4" HIGH

11-1/2" DEEP



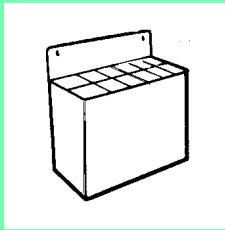
METAL DIVIDERS FOR 18 DRAWER CABINET

PART NUMBER 90017

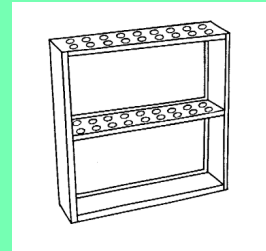


ASSORTMENTS

METAL RACK ASSORTMENTS



90030

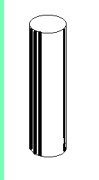


90031

80150

ROUND STOCK ASSORTMENT W/RACK

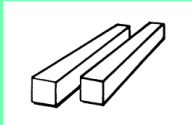
5 PIECES EACH 3/16, 1/4, 5/16, 3/8, 7/16, 1/2
3 FOOT LENGTHS, STEEL ZINC PLATED



80155

LARGE SQUARE KEY ASSORTMENT W/RACK

5 PIECES EACH 1/8, 3/16, 1/4, 5/16, 3/8, 7/16
3 PIECES EACH 1/2, 5/8, 3/4
12 INCH LENGTHS, STEEL ZINC PLATED



80156

SMALL SQUARE KEY ASSORTMENT W/RACK

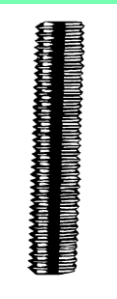
5 PIECES EACH 1/8, 3/16, 1/4, 5/16, 3/8, 7/16
3 PIECES EACH 1/2
12 INCH LENGTHS, STEEL ZINC PLATED



80157

ROUND KEY STOCK ASSORTMENT W/RACK

5 PIECES EACH 1/8, 3/16, 1/4, 5/16, 3/8, 7/16
3 PIECES EACH 1/2
12 INCH LENGTHS, PLAIN FINISH



80301

USS LOW CARBON THREADED ROD ASSORTMENT

5 PIECES EACH 1/4, 5/16, 3/8, 7/16, 1/2 3 PIECES EACH 5/8, 3/4
2 PIECES EACH 7/8 1 PIECE 1 INCH, ZINC PLATED
3 FOOT LENGTHS, 1 METAL RACK

80311

SAE LOW CARBON THREADED ROD ASSORTMENT

5 PIECES EACH 1/4, 5/16, 3/8, 7/16, 1/2 3 PIECES EACH 5/8, 3/4
2 PIECES EACH 7/8 1 PIECE 1 INCH, ZINC PLATED
3 FOOT LENGTHS, 1 METAL RACK

80320

USS ALLOY THREADED ROD ASSORTMENT

5 PIECES 1/4, 5/16, 3/8, 1/2, 3 PIECES EACH 5/8, 3/4
1 METAL RACK, ALLOY STEEL IS PLAIN FINISH
3 FOOT LENGTHS



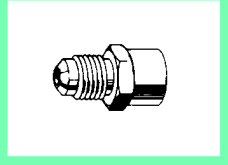
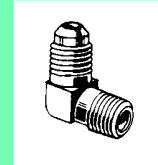
ASSORTMENTS

BRASS FITTINGS

SAE FLARE

80070S & 80070L 20 ITEMS, 50 PIECES

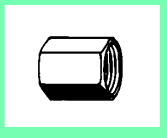
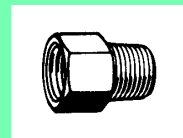
63452	63453	63454	63455	63474
63475	63476	63477	63497	63498
63499	63500	63501	63502	63506
63597	63536	63538	63541	63544



INVERTED FLARE

80071S & 80071L 23 ITEMS, 72 PIECES

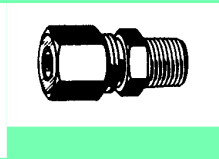
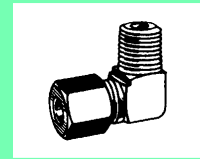
63603	63604	63605	63606	63612	63613
63614	63619	63620	63621	63622	63623
63625	63627	63637	63638	63641	63643
63649	63650	63651	63653	63615	



COMPRESSION

80072S & 80072L 24 ITEMS, 99 PIECES

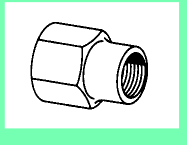
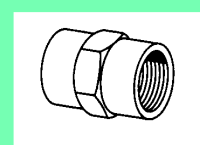
63655	63656	63657	63658	63659	63666
63667	63668	63669	63670	63677	63678
63679	63680	63681	63695	63696	63698
63701	63704	63729	63730	63732	63734



PIPE

80073S & 80073L 24 ITEMS, 49 PIECES

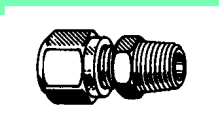
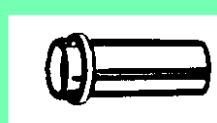
63740	63741	63742	63743	63750	63751
63752	63755	63761	63762	63763	63764
63775	63776	63777	63778	63805	63806
63807	63808	63810	63812	63813	63814



NYLON AIR BRAKE

80074S & 80074L 24 ITEMS, 70 PIECES

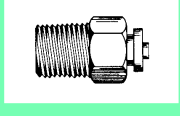
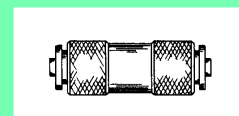
64190	64191	64192	64193	64200	64201
64202	64203	64210	64211	64212	64213
64220	64221	64222	64223	64250	64254
64258	64261	64275	64279	64283	64286



D.O.T. PLUG-IN

80075L 23 ITEMS, 59 PIECES

64425	64426	64427	64430	64431	64432
64435	64436	64445	64446	64447	64448
64449	64450	64451	64452	64453	64456
64459	64461	64475	64477	64479	



S = SMALL TRAYS; L = LARGE TRAYS

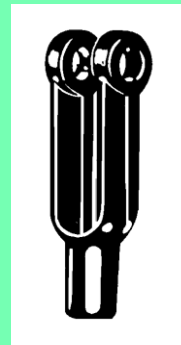


ENDS

ADJUSTABLE YOKE ENDS

SIZE	LENGTH A	LENGTH B	LENGTH C	PART NUMBER
1/4-28	2	1-1/4	9/32	60090
5/16-24	2-1/4	1-7/16	11/32	60091
3/8-24	2-1/2	1-5/8	7/16	60092
7/16-20	2-7/8	1-7/8	1/2	60093
1/2-20	3	1-7/8	9/16	60094
5/8-18	4-15/16	1-1/16	1-1/16	60095

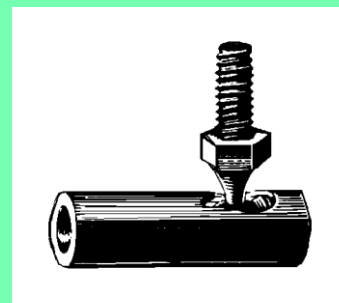
PACKAGE IS 5



BALL JOINT ROD ENDS

SIZE	PART NUMBER
10-32	60540
1/4-28	60541
5/16-24	60542
3/8-24	60543
1/2-20	60544

PACKAGE IS 1





BATTERIES

BATTERIES

ALKALINE BATTERIES

DESCRIPTION	PART NUMBER	PACKAGE
"AAA"	61515	1
"AA"	61516	1
"C"	61517	1
"D"	61518	1
9V	61519	1



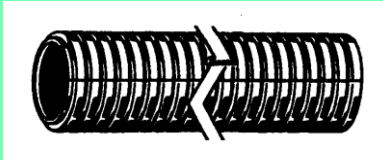


BATTERY CABLE

BATTERY CABLE

WIRE LOOM

BLACK NYLON SPLIT CONVOLUTED LOOM



I.D.	O.D.	PART NUMBER
1/4	3/8	52370
5/16	1/2	52371
3/8	9/16	52372
1/2	11/16	52373
3/4	15/16	52374
1"	1-1/8	52375

CAN WITHSTAND MAXIMUM TEMPERATURE OF 345°F
PACKAGE IS 10 FOOT OR 50 FT LENGTHS (BULK) WITH
THE EXCEPTION OF 1" WHICH IS IN 25 FOOT LENGTHS.

BLACK SPIRAL WRAP LOOM

ABRASION RESISTANT SPIRAL WRAP TUBING IS USED AS A WIRE
HARNESS COVERING. WRAP AROUND YOUR HARNESS AND ANY
WIRES WHICH BREAK OUT CAN EASILY EXIT THROUGH THE
SPIRAL SLIT. RATED FOR UP TO 122°F. (50°C).



SIZE	WALL THICKNESS	PART NUMBER
1/4	0.045	52381
3/8	0.052	52383
1/2	0.062	52385
3/4	0.065	52387
1"	0.095	52389

PACKAGE IS 1 FOOT

2-TUBE CUSHIONED CABLE CLAMPS

HEAVY DUTY 2 TUBE BLACK CUSHIONED CABLE CLAMPS USED
FOR HOLDING 2 WIRE ASSEMBLIES OR TUBING. MOUNTING HOLE
IS .406 DIAMETER



SIZE	WIDTH	PART NUMBER	PACKAGE
1/2	3/4	W25160	10
3/4	3/4	W25161	10
1	3/4	W25162	10
1-1/4	3/4	W25163	10

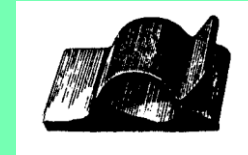


BATTERY CABLE

LOOM CLIPS

STICK ON LOOM CLIPS

SIZE	PART NUMBER	PACKAGE
1/4	52405	20
1/2	52406	20
3/4	52407	20



LIGHT DUTY METAL LOOM CLIPS

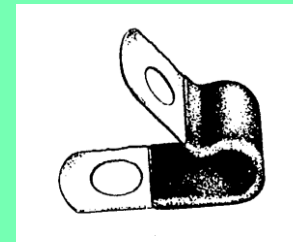
SIZE	PART NUMBER	PACKAGE
1/4	52408	25
5/16	52409	25
3/8	52410	25
1/2	52411	25
5/8	52412	25
3/4	52413	25
1	52414	25



HEAVY DUTY METAL LOOM CLIPS

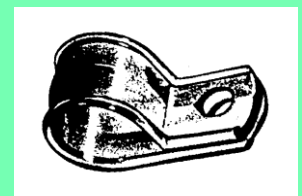
3/8 BOLT HOLE-3/4 WIDE

SIZE	PART NUMBER	PACKAGE
1/4	52408HD	25
5/16	52409HD	25
3/8	52410HD	25
1/2	52411HD	25
5/8	52412HD	25
3/4	52413HD	25
1	52414HD	25
1-1/4	52415HD	25

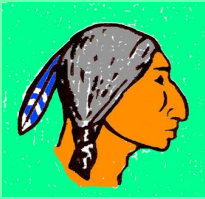


NYLON LOOM CLIPS-13/64 HOLE

SIZE	WIDTH	WHITE PART NUMBER	BLACK PART NUMBER
1/8	3/8	524141	524141B
3/16	3/8	524142	524142B
1/4	3/8	52415	52415B
5/16	3/8	52416	52416B
3/8	3/8	52417	52417B
7/16	3/8	524171	524171B
1/2	3/8	52418	52418B
9/16	1/2	524181	524181B
5/8	1/2	524182	524182B
3/4	1/2	52419	52419B
7/8	1/2	524191	
1	1/2	52420	52420B



PACKAGE IS 25



BATTERY WIRE & TERMINALS

BATTERY WIRE & TERMINALS

PLASTIC COATED BATTERY/STARTER CABLE



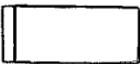
GAUGE	PART NUMBER		UNIT OF SALE
	BLACK	RED	
8	532791	532793	1 FOOT
6	532801	532803	ALL
4	532811	532813	ITEMS
2	532821	532823	1 FOOT
1	532831	532833	ALL
1/0	532841	532843	ITEMS
2/0	532851	532853	1 FOOT
3/0	532861	532863	ALL
4/0	532871	532873	ITEMS

WE KEEP THIS PRODUCT IN 25 FT ROLLS

52425



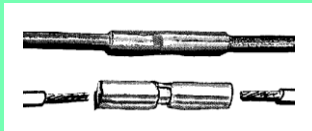
52426



PART NUMBER	DESCRIPTION	PACK
52425	NON-INSULATED MALE TAB	50
52426	NON-INSULATED FEMALE TAB	50
52427	PLASTIC HOUSING, FEMALE	25
52428	PLASTIC HOUSING, MALE	25

BUTT CONNECTORS

SOLDER RING INSIDE OF HEAT SHRINK TUBE



PART NUMBER	SIZE	PACK
41519	18-22 GA.	25
42519	14-16 GA	
43519	10-12 GA.	

SIZE OF SHRINK TUBE TO ORDER FOR VARIOUS SIZE WIRE

SIZE INSIDE DIAMETER	USE ON THIS ASSEMBLY
1/8	SOLDER CONNECTIONS 18 GA. AND SMALLER
3/16	SOLDER CONNECTIONS 14-16 GA.
1/4	SOLDER CONNECTIONS UP TO 8 GA. CRIMPED CONNECTORS UP TO 10 GA. BARE
3/8	8 GA. SOLDER CONNECTIONS UP TO 10 GA. CRIMPED & INSULATED
1/2	4-6 GA. SOLDER OR CRIMP, BARE
3/4	1 GA. TO 2/0 BATTERY TERMINALS
1	3/0 AND 4/0 BATTERY TERMINALS

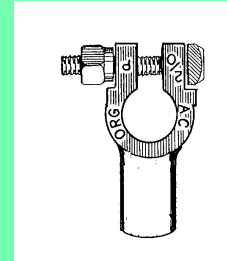


BATTERY TERMINALS

CRIMPABLE

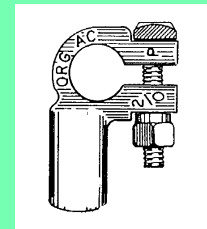
STRAIGHT CLAMP

GAUGE	PART NUMBER
6	52056
4	52057
1 POSITIVE	52058
1 NEGATIVE	52059
1/0 POSITIVE	52060
1/0 NEGATIVE	52061
2/0 POSITIVE	52062
2/0 NEGATIVE	52063
3/0 POSITIVE	52090
3/0 NEGATIVE	52091
4/0 POSITIVE	52092
4/0 NEGATIVE	52093



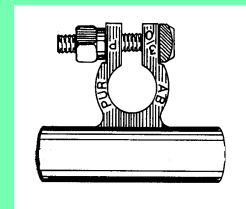
FLAG BATTERY TERMINAL

GAUGE	PART NUMBER
1/0 POSITIVE	52094
1/0 NEGATIVE	52095
2/0 POSITIVE	52096
2/0 NEGATIVE	52097



TEE BATTERY TERMINAL

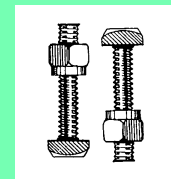
GAUGE	PART NUMBER
1/0 POSITIVE	52110
1/0 NEGATIVE	52111
2/0 POSITIVE	52112
2/0 NEGATIVE	52113
3/0 POSITIVE	52114
3/0 NEGATIVE	52115



PACKAGE ON ALL IS 10

COMPLETE WITH BOLT & NUT

**3/8-16 BATTERY POST NUT
52068**



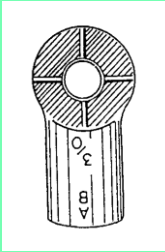
**SIDE POST BATTERY BOLT
52069**





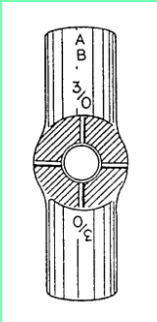
BATTERY TERMINALS

SINGLE STACKABLE TERMINALS



CABLE GAUGE	PART NUMBER
1	52070
1/0	52071
2/0	52072
3/0	52073
4/0	52074

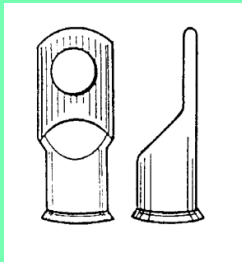
DOUBLE STACKABLE TERMINALS



CABLE GAUGE	PART NUMBER
1/0	52075
2/0	52076
3/0	52077
4/0	52078

PACKAGE FOR ALL ABOVE IS 1

COPPER LUGS



WIRE SIZE	STUD SIZE	PART NUMBER
8	1/4	52220
8	5/16	52221
8	3/8	52223
6	1/4	52224
6	5/16	52225
6	3/8	52226
4	1/4	52227
4	5/16	52228
4	3/8	52229
4	1/2	522291
2	3/8	52230
2	1/2	52231
1	3/8	52232
1	1/2	52233
1/0	3/8	52234
1/0	1/2	52235
2/0	5/16	52236
2/0	3/8	52237
2/0	1/2	52238
3/0	3/8	52239
3/0	1/2	52240
4/0	3/8	52241
4/0	1/2	52242

PACKAGE IS 25



BATTERY TERMINALS

HEAVY DUTY COPPER LUG TIN PLATED

WIRE SIZE	STUD SIZE	PART NUMBER
8	1/4	52260
8	3/8	52261
6	1/4	52262
6	3/8	52263
6	1/2	52264
4	1/4	52265
4	3/8	52266
4	1/2	52267
2	1/4	52268
2	3/8	52269
2	1/2	52270
1	1/4	52272
1	3/8	52274
1	1/2	52275
1/0	3/8	52278
1/0	1/2	52279
2/0	1/4	52282
2/0	3/8	52284
2/0	1/2	52285
3/0	3/8	52287
3/0	1/2	52288
4/0	3/8	52289
4/0	1/2	52290

PACKAGE ON ALL IS 10



LARGE GAUGE BUTT CONNECTORS

UNINSULATED, TIN PLATED

WIRE SIZE	COLOR CODE	PART NUMBER
2	BROWN	52120
1	GREEN	52122
1/0	PINK	52124
2/0	BLACK	52126
3/0	ORANGE	52128
4/0	PURPLE	52130

PACKAGE IS 1

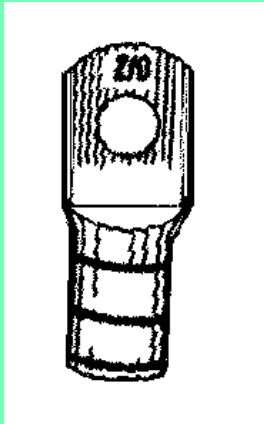


COLOR CODE DESIGNATES CABLE SIZE
 TIN PLATED TO MINIMIZE CORROSION
 SIGHT HOLE PERMITS INSPECTION OF CABLE
 INSERTION DEPTH & SOLDER FLOW.
 FLARED ENDS FOR EASY WIRE INSERTION.



BATTERY TERMINALS

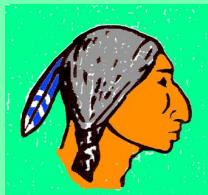
MAGNA LUGS



EXTRA
HEAVY DUTY
COPPER LUG

WIRE SIZE	STUD SIZE	PART NUMBER
8	1/4	52220M
8	5/16	52221M
8	3/8	52223M
6	1/4	52224M
6	5/16	52225M
6	3/8	52226M
4	1/4	52227M
4	5/16	52228M
4	1/2	522291M
4	3/8	52229M
1 & 2	1/4	52230M
1 & 2	5/16	52231M
1 & 2	3/8	52232M
1 & 2	1/2	52233M
1/0	1/4	52238M
1/0	5/16	52239M
1/0	3/8	52240M
1/0	1/2	52241M
2/0	1/4	52242M
2/0	5/16	52243M
2/0	3/8	52244M
2/0	1/2	52245M
3/0	1/4	52246M
3/0	5/16	52247M
3/0	3/8	52248M
3/0	1/2	52249M
4/0	3/8	52250M
4/0	1/2	52251M

PACKAGE ON ALL IS 1



BATTERY TERMINALS

UNIVERSAL BATTERY TERMINALS

DESCRIPTION	PART NUMBER	PACKAGE
TOP POST	52052	10
WING NUT	52054	10
SIDE MOUNT	52082	10
FOUR BOLT	52083	2

FOUR BOLT TERMINALS ARE HEAVY DUTY AND COME IN A SET OF 1 POSITIVE AND 1 NEGATIVE

BATTERY BOLT AND NUT

ITEM	PART NUMBER	PACKAGE
BOLT	52066	50
NUT	52067	50

CABLE CLAMPS 200 AMP

COLOR	PART NUMBER	PACKAGE
RED	52084	1
BLACK	52085	1

CABLE CLAMPS 500 AMP

COLOR	PART NUMBER	PACKAGE
RED	52086	1
BLACK	52087	1

CABLE CLAMPS 600 AMP

COLOR	PART NUMBER	PACKAGE
RED	520861	1
BLACK	520871	1

STUD BATTERY HARNESS

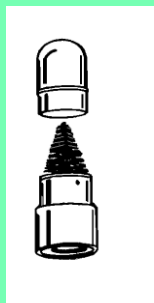
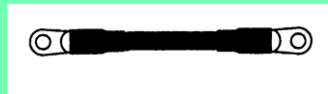
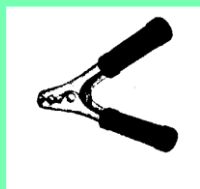
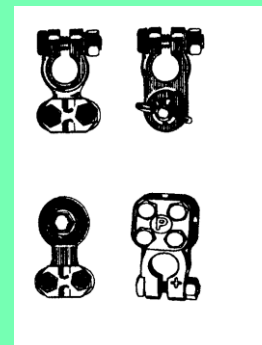
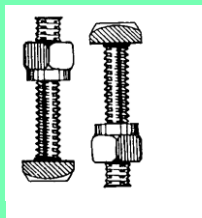
COLOR	PART NUMBER	PACKAGE
BLACK	53325	1
RED	53326	1

CABLES ARE 8.5 INCHES

BATTERY POST & TERMINAL CLEANER

PART NUMBER MIT5780

GALVANIZED STEEL BRUSH FITS OVER POSTS AND CLEANS WITH A TWIST. CONE SHAPED STEEL BRUSH CLEANS INSIDE TERMINALS. REMOVES CORROSION, DIRT AND GREASE. CLEANS BATTERY POSTS AND TERMINALS WITH ONE TOOL.





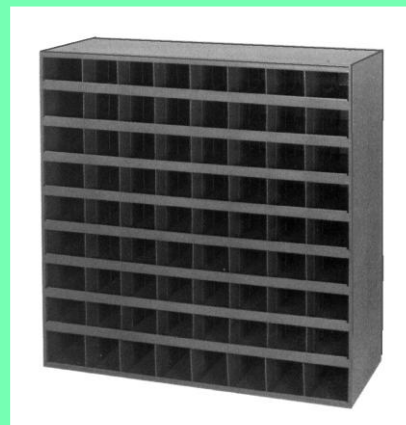
BINS

BINS

COMPARTMENT BIN

90001-72

DIMENSIONS: 35" WIDE
 42" HIGH
 12" DEEP
COMPARTMENTS: 4 X 4-1/2



COMPARTMENT BIN

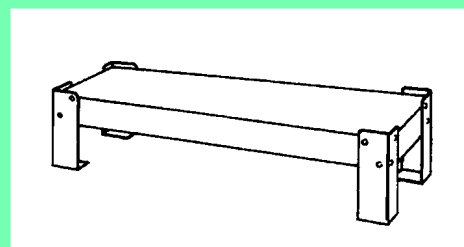
90002-40

DIMENSIONS: 34-1/2" WIDE
 24" HIGH
 12" DEEP
COMPARTMENTS: 4 X 4-1/2



BASE FOR 35" CABINETS

90035



BIN LABELS

90003L BIN LABELS FOR 72 COMPARTMENTS

90003S BIN LABELS FOR 40 COMPARTMENTS

PRINTED ON PRESSURE SENSITIVE, COATED PAPER.
BIN LABELS ARE INCLUDED WITH ALL ASSORTMENTS.



BLIND RIVETS

BLIND RIVETS

ALUMINUM RIVET BODY - ALUMINUM MANDREL

DIAMETER 3/32 - DRILL #41				
GRIP RANGE	DESCRIPTION	HEAD STYLE	PART NUMBER	PACKAGE
1/16 - 1/8	3-2 AAD	DOME	19150	100
1/8 - 1/4	3-4 AAD	DOME	19151	100

DIAMETER 1/8 - DRILL #30				
GRIP RANGE	DESCRIPTION	HEAD STYLE	PART NUMBER	PACKAGE
1/32 - 1/16	4-1 AAD	DOME	19152	100
1/16 - 1/8	4-2 AAD	DOME	19153	100
1/8 - 3/16	4-3 AAD	DOME	19154	100
3/16 - 1/4	4-4 AAD	DOME	19155	100
1/4 - 5/16	4-5 AAD	DOME	19156	100
5/16 - 3/8	4-6 AAD	DOME	19157	100
3/8 - 1/2	4-8 AAD	DOME	19158	100

DIAMETER 5/32 - DRILL #20				
GRIP RANGE	DESCRIPTION	HEAD STYLE	PART NUMBER	PACKAGE
1/16 - 1/8	5-2 AAD	DOME	19160	100
1/8 - 3/16	5-3 AAD	DOME	19161	100
3/16 - 1/4	5-4 AAD	DOME	19162	100
1/4 - 5/16	5-6 AAD	DOME	19163	100
3/8 - 1/2	5-8 AAD	DOME	19164	100

DIAMETER 3/16 - DRILL #11				
GRIP RANGE	DESCRIPTION	HEAD STYLE	PART NUMBER	PACKAGE
1/16 - 1/8	6-2 AAD	DOME	19166	100
3/16 - 1/4	6-4 AAD	DOME	19168	100
1/4 - 3/8	6-6 AAD	DOME	19169	100
3/8 - 1/2	6-8 AAD	DOME	19170	100
1/2 - 5/8	6-10 AAD	DOME	19171	100
5/8 - 3/4	6-12 AAD	DOME	19172	100
3/4 - 7/8	6-14 AAD	DOME	19173	100
7/8 - 1	6-16 AAD	DOME	19174	100

DIAMETER 1/4 - DRILL #F				
GRIP RANGE	DESCRIPTION	HEAD STYLE	PART NUMBER	PACKAGE
1/16 - 1/4	8-4 AAD	DOME	19176	100
1/4 - 3/8	8-6 AAD	DOME	19177	100
3/8 - 1/2	8-8 AAD	DOME	19178	100
1/2 - 5/8	8-10 AAD	DOME	19179	100
5/8 - 3/4	8-12 AAD	DOME	19180	100
3/4 - 1	8-16 AAD	DOME	19181	100



BLIND RIVETS

ALUMINUM RIVET BODY - ALUMINUM MANDREL CON'T.

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/8	4-2 AALF	19185
1/8 - 1/4	4-4 AALF	19186
1/4 - 3/8	4-6 AALF	19187

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/4	6-4 AALF	19189
1/4 - 3/8	6-6 AALF	19190
3/8 - 1/2	6-8 AALF	19191
1/2 - 5/8	6-10 AALF	19192
5/8 - 3/4	6-12 AALF	19193

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	4-2 AAC	19195
1/8 - 3/16	4-3 AAC	19196
3/16 - 1/4	4-4 AAC	19197
1/4 - 5/16	4-5 AAC	19198

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/8 - 1/4	5-4 AAC	19200
1/4 - 3/8	5-6 AAC	19201

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/8 - 1/4	6-4 AAC	19202

ALL PACKAGE QUANTITIES ARE 100



BLIND RIVETS

ALUMINUM RIVET BODY - STEEL MANDREL

DIAMETER 3/32 - DRILL #41		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/8	3-2 ASD	19210
1/8 - 1/4	3-4 ASD	19212

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/16	4-1 ASD	19213
1/16 - 1/8	4-2 ASD	19214
1/8 - 3/16	4-3 ASD	19215
3/16 - 1/4	4-4 ASD	19216
1/4 - 5/16	4-5 ASD	19217
5/16 - 3/8	4-6 ASD	19218
3/8 - 1/2	4-8 ASD	19219

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	5-2 ASD	19220
1/8 - 3/16	5-3 ASD	19221
3/16 - 1/4	5-4 ASD	19223
1/4 - 3/8	5-6 ASD	19224
3/8 - 1/2	5-8 ASD	19225

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	6-2 ASD	19226
1/8 - 1/4	6-4 ASD	19227
1/4 - 3/8	6-6 ASD	19228
3/8 - 1/2	6-8 ASD	19229
1/2 - 5/8	6-10 ASD	19230
5/8 - 3/4	6-12 ASD	19231
3/4 - 7/8	6-14 ASD	19232
7/8 - 1	6-16 ASD	19233

DIAMETER 1/4 - DRILL #F		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/4	8-4 ASD	19235
1/4 - 3/8	8-6 ASD	19236
3/8 - 1/2	8-8 ASD	19237
1/2 - 5/8	8-10 ASD	19238
5/8 - 3/4	8-12 ASD	19239
3/4 - 1	8-16 ASD	19240



BLIND RIVETS

ALL PACKAGE QUANTITIES ARE 100

ALUMINUM RIVET BODY - STEEL MANDREL CON'T.

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/8	4-2 ASLF	19245
1/8 - 1/4	4-4 ASLF	19246
1/4 - 3/8	4-6 ASLF	19247

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/4	6-4 ASLF	19249
1/4 - 3/8	6-6 ASLF	19250
3/8 - 1/2	6-8 ASLF	19251
1/2 - 5/8	6-10 ASLF	19252
5/8 - 3/4	6-12 ASLF	19253

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	4-2 ASC	19255
1/8 - 3/16	4-3 ASC	19256
3/16 - 1/4	4-4 ASC	19257
1/4 - 5/16	4-5 ASC	19258

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/8 - 1/4	5-4 ASC	19260
1/4 - 3/8	5-6 ASC	19261

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/8 - 1/4	6-4 ASC	19262

ALL PACKAGE QUANTITIES ARE 100



BLIND RIVETS

STAINLESS STEEL RIVET BODY - STEEL MANDREL

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/8	4-2 STSD	19265
1/8 - 3/16	4-3 STSD	19266
3/16 - 1/4	4-4 STSD	19267
1/4 - 3/8	4-6 STSD	19268
3/8 - 1/2	4-8 STSD	19269

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	5-2 STSD	19270
1/8 - 1/4	5-4 STSD	19271
1/4 - 3/8	5-6 STSD	19272

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	6-2 STSD	19274
1/8 - 1/4	6-4 STSD	19276
1/4 - 3/8	6-6 STSD	19277
3/8 - 1/2	6-8 STSD	19278

STAINLESS STEEL RIVET BODY -STAINLESS STEEL MANDREL

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/16	4-2 STSTD	19280
1/16 - 3/16	4-3 STSTD	19281
3/16 - 1/4	4-4 STSTD	19282
1/4 - 3/8	4-6 STSTD	19283
3/8 - 1/2	4-8 STSTD	19284

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	5-2 STSTD	19285
1/8 - 1/4	5-4 STSTD	19287
1/4 - 3/8	5-6 STSTD	19288

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	6-2 STSTD	19290
1/8 - 1/4	6-4 STSTD	19292
1/4 - 3/8	6-6 STSTD	19293
3/8 - 1/2	6-8 STSTD	19294

ALL PACKAGE QUANTITIES ARE 100



BLIND RIVETS

STAINLESS STEEL RIVET BODY - STEEL MANDREL CON'T

DIAMETER 3/32 - DRILL #41		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/16	3-2 SSD	19300
1/16 - 1/4	3-4 SSD	19302

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/16	4-1 SSD	19304
1/16 - 1/8	4-2 SSD	19305
1/8 - 3/16	4-3 SSD	19306
3/16 - 1/4	4-4 SSD	19307
1/4 - 5/16	4-5 SSD	19308
5/16 - 3/8	4-6 SSD	19309
3/8 - 1/2	4-8 SSD	19310

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	5-2 SSD	19312
1/8 - 3/16	5-3 SSD	19313
3/16 - 1/4	5-4 SSD	19314
1/4 - 3/8	5-6 SSD	19315
3/8 - 1/2	5-8 SSD	19316

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	6-2 SSD	19317
1/8 - 1/4	6-4 SSD	19319
1/4 - 3/8	6-6 SSD	19321
3/8 - 1/2	6-8 SSD	19322
1/2 - 5/8	6-10 SSD	19323
5/8 - 3/4	6-12 SSD	19324
3/4 - 7/8	6-14 SSD	19325
7/8 - 1	6-16 SSD	19326

DIAMETER 1/4 - DRILL #F		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/4	8-4 SSD	19329
1/4 - 3/8	8-6 SSD	19331
3/8 - 1/2	8-8 SSD	19332
1/2 - 5/8	8-10 SSD	19333
5/8 - 3/4	8-12 SSD	19334
3/4 - 1	8-16 SSD	19336

ALL PACKAGE QUANTITIES ARE 100



BLIND RIVETS

STEEL RIVET BODY - STEEL MANDREL

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/32 - 1/8	4-2 SSLF	19338
1/8 - 1/4	4-4 SSLF	19339
1/4 - 3/8	4-6 SSLF	19340

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/8 - 1/4	5-4 SSLF	19342

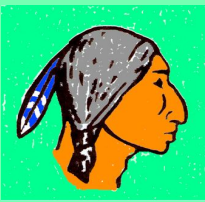
DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/4	6-4 SSLF	19346
1/4 - 3/8	6-6 SSLF	19347
3/8 - 1/2	6-8 SSLF	19348
1/2 - 5/8	6-10 SSLF	19349
5/8 - 3/4	6-12 SSLF	19350

DIAMETER 1/8 - DRILL #30		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/16 - 1/8	4-2 SSC	19355
1/8 - 3/16	4-3 SSC	19356
3/16 - 1/4	4-4 SSC	19357
1/4 - 5/16	4-5 SSC	19358

DIAMETER 5/32 - DRILL #20		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/8 - 1/4	5-4 SSC	19360
1/4 - 3/8	5-5 SSC	19361

DIAMETER 3/16 - DRILL #11		
GRIP RANGE	DESCRIPTION	PART NUMBER
1/8 - 1/4	6-4 SSC	19365

ALL PACKAGE QUANTITIES ARE 100



BLIND RIVETS

BACK-UP WASHERS

STEEL SQUARE WASHERS

HOLE SIZE	DIAMETER	PART NUMBER
3/32	1/2	19400
1/8	1/2	19401
5/32	1/2	19402
3/16	1/2	19403
1/4	1/2	19404

PACKAGE QUANTITY IS 100

ROUND WASHERS

HOLE SIZE	DIAMETER	MATERIAL	PART NUMBER
1/8	3/8	STEEL	19405
3/16	1/2	STEEL	19406
1/8	3/8	ALUMINUM	19407
5/32	7/16	ALUMINUM	19408
3/16	1/2	ALUMINUM	19409

PACKAGE QUANTITY IS 100



BLIND RIVETS

NUTS

ALUMINUM

DIAMETER	GRIP RANGE	PART NUMBER	PACKAGE
8-32	.075	32300	50
8-32	.120	32301	50
8-32	.160	32302	50
10-32	.080	32304	50
10-32	.130	32305	50
10-32	.180	32306	50
1/4-20	.080	32308	25
1/4-20	.140	32309	25
1/4-20	.200	32310	25
1/4-20	.260	32311	25
5/16-18	.125	32314	25
5/16-18	.200	32315	25
5/16-18	.275	32316	25
3/8-16	.115	32318	25
3/8-16	.200	32319	25
3/8-16	.285	32320	25

STEEL ZINC PLATED

DIAMETER	GRIP RANGE	PART NUMBER	PACKAGE
8-32	.075	32330	50
8-32	.120	32331	50
8-32	.160	32332	50
10-32	.080	32333	50
10-32	.130	32334	50
10-32	.180	32335	50
1/4-20	.080	32336	25
1/4-20	.140	32337	25
1/4-20	.200	32338	25
1/4-20	.260	32339	25
5/16-18	.125	32340	25
5/16-18	.200	32341	25
5/16-18	.275	32342	10
3/8-16	.115	32343	10
3/8-16	.200	32344	10
3/8-16	.285	32345	10



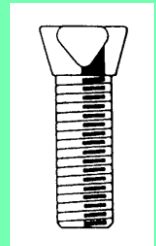
BOLTS

BOLTS

PLOW & CARRIAGE

CLIPPED HEAD

SIZE	PART NUMBER	PACKAGE
3/8 X 1-1/4	07001	25
7/16 X 1-1/4	07002	25
7/16 X 1-1/2	07003	
7/16 X 2	07004	
1/2 X 1-1/4	07005	25
1/2-1-1/2	07006	



7/16 AND 1/2 CLIPPED BOLTS COME PACKED WITH NUTS. THIS IS SO THAT THE WRENCH SIZE IS THE SAME FOR THE 1/2 AND 7/16 NUTS. IT WILL SAVE TIME IN INSTALLING A PLOW POINT THAT HAS A 1/2 INCH BOLT IN FRONT AND 3 OR MORE 7/16 BOLTS FOLLOWING

HEAT TREATED MEDIUM CARBON STEEL ZINC PLATED COARSE THREADS

SIZE	PART NUMBER	HEAD	PACKAGE
3/8 X 1	07010	#3	25
3/8 X 1-1/4	07011		
3/8 X 1-1/2	07012		
3/8 X 1-3/4	07013	#3	25
3/8 X 2	07014		
7/16 X 1	07020	#3	25
7/16 X 1-1/4	07021		
7/16 X 1-1/2	07022		
7/16 X 1-3/4	07023	#3	25
7/16 X 2	07024		
7/16 X 2-1/4	07025		
7/16 X 2-1/2	07026	#3	25
7/16 X 2-3/4	07027		
7/16 X 3	07028		
1/2 X 1	07029	#3	25
1/2 X 1-1/4	07030		
1/2 X 1-1/2	07032		
1/2 X 1-3/4	07033	#3	25
1/2 X 2	07034		
1/2 X 2-1/4	07035		
1/2 X 2-1/2	07036	#3	25
1/2 X 2-3/4	07037		
1/2 X 3	07038		
1/2 X 3-1/2	07039	#3	25
5/8 X 1-1/2	07040	#3	25
5/8 X 1-3/4	07041		
5/8 X 2	07042		
5/8 X 2-1/4	07043	#3	25
5/8 X 2-1/2	07044		
5/8 X 3	07045		
3/4 X 2-1/2	07048	#3	25
3/4 X 3	07050		
3/8 X 1-1/2	07015	#8 W/NUT	25
3/8 X 1-1/2	07016	7/16 #3	25
3/8 X 1-1/4	07017	#8	25



GRADE 5

PLOW

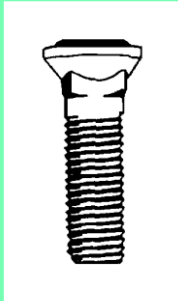
BOLTS



BOLTS

PLOW & CARRIAGE CON'T

HEAT TREATED STEEL COARSE THREAD



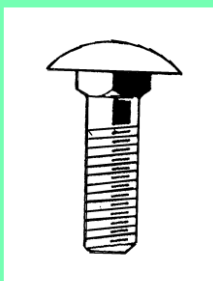
SIZE	PART NUMBER	HEAD STYLE
5/8 X 2	07101	#3 DOMED
5/8 X 2-1/4	07102	
5/8 X 2-1/2	07103	
5/8 X 3	07104	#3 DOMED
5/8 X 3-1/2	07105	
5/8 X 4	07106	
5/8 X 4-1/2	07107	#3 DOMED
5/8 X 5	07108	
5/8 X 6	07109	
3/4 X 2	07111	#3 DOMED
3/4 X 2-1/4	07112	
3/4 X 2-1/2	07113	#3 DOMED
3/4 X 2-3/4	071130	
3/4 X 3	07114	
3/4 X 3-1/2	07115	#3 DOMED
3/4 X 4	07116	
7/8 X 2-1/2	07122	#3 DOMED
7/8 X 2-3/4	071220	
7/8 X 3	07123	#3 DOMED
7/8 X 3-1/2	07124	
7/8 X 4	07125	
1 X 3	07133	#3 DOMED
1 X 3-1/2	07134	
1 X 4	07135	

GRADE 8

PLOW

ALL PACKAGE QUANTITIES ARE 25

CARRIAGE BOLTS STAINLESS STEEL



LENGTH	DIAMETER			
	1/4	5/16	3/8	1/2
3/4	07431	07443	07455	
1	07432	07444	07456	
1-1/4	07433	07445	07457	
1-1/2	07434	07446	07458	07480
1-3/4				074801
2	07435	07447	07459	07481
2-1/2	07436	07448	07460	07482
3	07437	07449	07461	07483
3-1/2	07438	07450	07462	07484
4	07439	07451	07463	07485

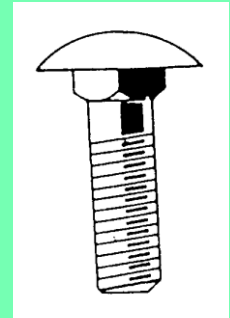
LENGTH	1/4	5/16	3/8	1/2
3/4 – 1-1/2	100	100	100	50
2 – 2-1/2	100	100	50	50
3 – 3-1/2	50	50	50	25
4	50	50	25	25



BOLTS

CARRIAGE BOLTS GRADE 2 STEEL ZINC PLATED

LENGTH	1/4	5/16	3/8	PACKAGE
3/4	07201	07213	07225	100
1	07202	07214	07226	100
1-1/4	07203	07215	07227	100
1-1/2	07204	07216	07228	100
2	07205	07217	07229	100
2-1/2	07206	07218	07230	100
3	07207	07219	07231	50
3-1/2	07208	07220	07232	50
4	07209	07221	07233	50
4-1/2	07210	07222	07234	25
5	07211	07223	07235	25
6	07212	07224	07236	25
7			07237	10
8			07238	10
9			07239	10
10			07240	1



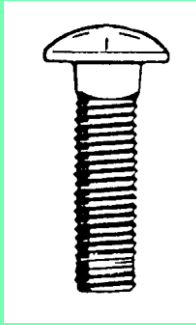
**CARRIAGE
BOLTS**

LENGTH	7/16	1/2	5/8	3/4
1-1/2	07241	07250	07263	
2	07242	07251	07264	07280
2-1/2	07243	07252	07265	07281
3	07244	07253	07266	07282
3-1/2	07245	07254	07267	07283
4	07246	07255	07268	07284
4-1/2	07247	07256	07269	07285
5	07248	07257	07270	07286
5-1/2				07287
6	07249	07258	07271	07288
7		07259		
8		07260		
10		07262		

DIAMETER	PACKAGE QUANTITIES			
	50	25	20	10
7/16	1 1/2 – 3 1/2	4 - 6		
1/2	1 1/2 - 3	3 – 6		7 - 8
5/8		2 – 3	3 1/2 – 4 1/2	5 – 6
3/4		ALL		



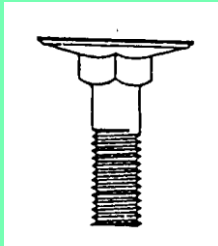
BOLTS



SHAKER SCREEN BOLTS GRADE 5

LENGTH	1/2	5/8	3/4
2	07300	07320	
2-1/2	07301	07321	
3	07302	07322	
3-1/2	07303	07323	07338
4	07304	07324	07339
4-1/2	07305	07325	07340
5	07306	07326	07341
5-1/2		073261	073411
6	07307	07327	07342
9			07345

PACKAGE QUANTITIES ARE 25



ELEVATOR BOLTS STEEL ZINC PLATED

LENGTH	1/4	5/16	3/8
3/4	07400		
1	07401	07408	07415
1-1/4	07402	07409	07416
1-1/2	07403	07410	07417
1-3/4	07404	07411	
2	07405	07412	07419
2-1/2	07406	07413	07420
3	07407	07414	07421

PACKAGE QUANTITIES ARE 100 FOR 1/4 & 5/16, 50 FOR 3/8



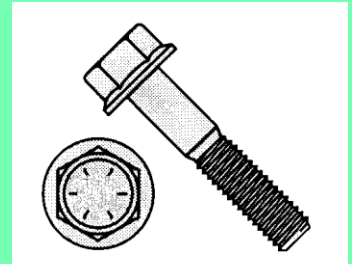
BOLTS FLANGE

FLANGE BOLTS

HEAT TREATED STEEL. 150,000 P.S.I. TENSILE STRENGTH

COARSE THREADS

LENGTH	DIAMETER			
	3/8	1/2	5/8	3/4
1	04564	04622		
1 1/4	04565	04623	04662	
1 1/2	04566	04624	04663	
1 3/4		04625	04664	
2	04568	04626	04665	04704
2 1/4	04569	04627	04666	04705
2 1/2	04570	04628	04667	04707
2 3/4	04571	04629	04668	
3		04630	04669	04708
3 1/4	04573	04631	04670	
3 1/2		04632	04671	04709
3 3/4		04633	04672	
4		04634	04673	04710
4 1/2		04636	04675	04715
5		04638	04676	
5 1/2		04639	04677	
6		04640	04678	
6 1/2		04641	04679	
7			04680	
7 1/2			04681	
8			04682	



PACKAGE QUANTITIES AND DIAMETER				
LENGTH	3/8	1/2	5/8	3/4
1	100	100		
1 1/4	100	50	50	
1 1/2	50	50	50	
1 3/4		50	25	
2	50	50	25	25
2 1/4	50	50	25	25
2 1/2	50	50	25	25
2 3/4	50	50	25	
3		50	25	25
3 1/4	50	50	20	
3 1/2		25	20	1
3 3/4		25	20	
4		25	20	1
4 1/2		25	20	1
5		25	10	
5 1/2		25	10	
6		25	10	
6 1/2		25	1	
7 - 8			1	

DESCRIPTION	PART NUMBER	PACKAGE
5/8 – 18 X 1 1/2 FLANGE BOLT	05762	10
5/8 – 18 FLANGE NUT	30130	20

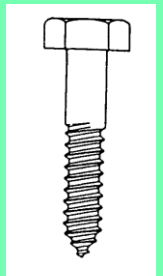


BOLTS LAG SCREWS

LAG SCREWS

STEEL ZINC PLATED

LENGTH	DIAMETER					
	1/4	5/16	3/8	1/2	5/8	3/4
1	07501	07531	07561			
1-1/4	07502	07532	07562			
1-1/2	07503	07533	07563	07593		
1-3/4	07504	07534	07564			
2	07505	07535	07565	07595	07625	
2-1/2	07507	07537	07567	07597	07627	07657
3	07508	07538	07568	07598	07628	07658
3-1/2	07510	07540	07570	07600	07630	07660
4	07512	07542	07572	07602	07632	07662
4-1/2	07514	07544	07574	07604	07634	07664
5	07516	07546	07576	07606	07636	07666
5-1/2	07518	07548	07578	07608	07638	
6	07520	07550	07580	07610	07640	07670



DIAMETER	PACKAGE QUANTITIES			
	100	50	25	20
1/4	ALL			
5/16	ALL			
3/8	1-2	2 1/2 - 6		
1/2		1 1/2 - 3	3 1/2 - 6	
5/8			ALL	
3/4				ALL

STAINLESS STEEL

LENGTH	1/4	5/16	3/8	1/2
1	07680	07690		
1-1/4			07700	
1-1/2	07681	07691	07701	07710
2	07682	07692	07702	07711
2-1/2	07683	07693	07703	07712
3	07684	07694	07704	07713
3-1/2	07685	07695	07705	
4	07686	07696	07706	07714
5			07707	07715
6			07708	07716

PACKAGE QUANTITIES ARE 100

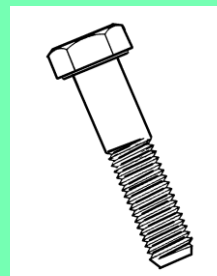


CARRIAGE BOLTS

METRIC HEX HEAD

CAP SCREWS COARSE THREAD STAINLESS

LENGTH	DIAMETER				
	5	6	8	10	12
10	M06025SS				
12	M06026SS				
14					
16	M06027SS		M06100SS	M06134SS	
20			M06101SS	M06135SS	M06169SS
25	M06030SS		M06103SS	M06137SS	M06171SS
30			M06105SS	M06139SS	M06173SS
35			M06106SS	M06140SS	M06174SS
40		M06040SS	M06107SS	M06141SS	M06175SS
45	M06035SS		M06108SS	M06142SS	M06176SS
50			M06109SS	M06143SS	M06177SS
55			M06110SS	M06144SS	M06178SS
60			M06111SS	M06145SS	M06179SS
65			M06112SS	M06146SS	M06180SS
70			M06113SS	M06147SS	M06181SS
75				M06148SS	M06182SS
80		M06080SS		M06149SS	M06183SS
90		M06090SS		M06151SS	M06185SS
100				M06152SS	M06186SS
110				M06153SS	M06187SS
120				M06154SS	M06188SS



LENGTH	DIAMETER			
	14	16	20	24
25	M06205SS	M06239SS		
30	M06207SS	M06241SS	M06304SS	
35	M06208SS	M06242SS	M06305SS	
40	M06209SS	M06243SS	M06306SS	M06379SS
45	M06210SS	M06244SS	M06307SS	M06380SS
50	M06211SS	M06245SS	M06308SS	M06381SS
55	M06212SS		M06309SS	M06382SS
60	M06213SS	M06247SS	M06310SS	M06383SS
65	M06214SS	M06248SS	M06311SS	M06384SS
70	M06215SS	M06249SS	M06312SS	M06385SS
75	M06216SS	M06250SS	M06313SS	M06386SS
80	M06217SS	M06251SS	M06314SS	M06387SS
90		M06253SS	M06316SS	M06389SS
95			M063161SS	M063891SS
100		M06254SS	M06317SS	M06390SS
110		M06255SS	M06318SS	M06391SS
120		M06256SS	M06319SS	M06392SS
130		M06257SS	M06320SS	M06393SS
140		M06258SS	M06321SS	M06394SS
150		M06259SS	M06322SS	M06395SS

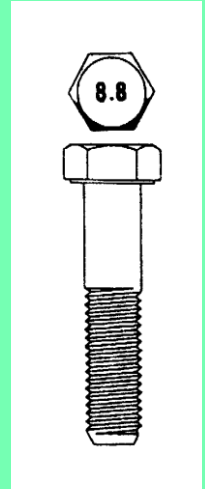
DIAMETER	50 PKG	25 PKG	10 PKG	1 PKG
5 & 6	10-35	40-70		
8		14-70		
10		16-45	50-90	100-120
12			20-55	60-120
14-16-20-24				ALL



CARRIAGE BOLTS

GRADE 8.8 STEEL COMPARABLE TO SAE GRADE 5

LENGTH	4MM	5MM	6MM	7MM
8	06003	06024	06047	
10	06004	06025	06048	06073
12	06005	06026	06049	06074
16	06006	06027	06050	06075
20	06007	06028	06051	06076
22	06008	06029	06052	
25	06009	06030	06053	06078
30	06011	06032	06055	06080
35	06012	06033	06056	06081
40	06013	06034	06057	06082
45	06014	06035	06058	06083
50	06015	06036	06059	06084
55		06037	06060	06085
60			06061	06086
65			06062	
70			06063	



LENGTH	8MM	10MM	12MM	14MM	16MM
10	06098				
12	06099	06133			
16	06100	06134	06168		
20	06101	06135	06169	06203	06237
22	06102	06136			
25	06103	06137	06171	06205	06239
30	06105	06139	06173	06207	06241
35	06106	06140	06174	06208	06242
40	06107	06141	06175	06209	06243
45	06108	06142	06176	06210	06244
50	06109	06143	06177	06211	06245
55	06110	06144	06178	06212	06246
60	06111	06145	06179	06213	06247
65	06112	06146	06180	06214	06248
70	06113	06147	06181	06215	06249
75	06114	06148	06182	06216	06250
80	06115	06149	06183	06217	06251
85	06116				
90	06117	06151	06185	06219	06253
100	06118	06152	06186	06220	06254
110	06119	06153	06187	06221	06255
120		06154	06188	06222	06256
130		06155	06189	06223	06257
140		06156	06190	06224	06258

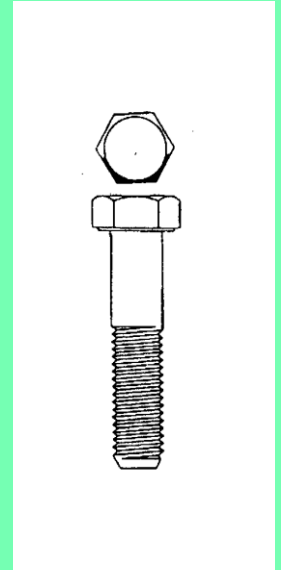
PACKAGE QUANTITIES FOR DIAMETERS M4,M5,M6,M7,M8,M10 ARE 25 PIECES
 PACKAGE QUANTITIES FOR DIAMETERS M12,M14,M16 ARE 10 PIECES



CARRIAGE BOLTS

GRADE 10.9 STEEL ZINC PLATED

LENGTH	M6 X 1.00	M8 X 1.25	M10 X 1.50	M12 X 1.75
12	06496			
16		06528		
20	06498	06529		
25	06500	06530	06558	06579
30	06501	06531	06559	06580
35	06502	06532	06560	06581
40	06503	06533	06561	06582
45	06504	06534	06562	06583
50	06505	06535	06563	06584
55	06506	06536	06564	06585
60	06507	06537	06565	06586
65	06508	06538	06566	06587
70	06509	06539	06567	06588
80	06511	06541	06569	06590
90		06543	06571	06592
100		06545	06573	06594
110		06546	06574	06595
120		06547	06575	06596
130		06548	06576	06597
140			06577	06598
150			06578	06599



LENGTH	M14 X 2.00	M16 X 2.00	M18 X 2.50	M20 X 2.50	M24 X 3.00
40		06628			
45	06604	06629			
50	06605	06630		06668	
55	06606	06631			
60	06607	06632	06650		
65	06608	06633	06651		
70	06609	06634	06652	06670	
80	06611	06636	06654	06672	06685
90	06613	06638	06656	06674	
100	06615	06640	06658	06676	
110	06616	06641	06659	06677	06689
120	06617	06642	06660	06678	
130	06618	06643	06661	06679	
140	06619	06644	06662	06680	
150	06620	06645	06663	06681	06692

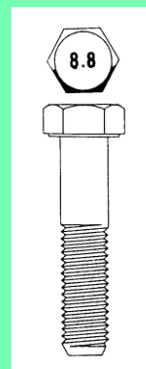
PACKAGE QUANTITIES FOR DIAMETERS M6,M8,M10 ARE 25 PIECES
 PACKAGE QUANTITIES FOR DIAMETERS M12,M14,M16,M18,M20 ARE 10 PIECES



CARRIAGE BOLTS

JIS HEX CAP SCREW,STEEL, ZINC PLATED, GRADE 8.8

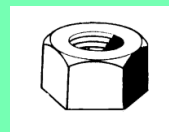
LENGTH	M8 X 1.25	M10 X 1.25	M12 X 1.25
16	06802		
20	06804	06822	06852
25	06806	06824	06854
30	06808	06826	06856
35		06828	
40	06810	06830	06858
50	06812	06832	06860
60		06834	06862
70		06835	
80		06836	



PACKAGE QUANTITIES IS 25 UP TO 60 LENGTH, 10 FOR 60 AND UP, M12 IS 10
WRENCH SIZE: M8 IS 12MM,M10 IS 14MM, M12 IS 17MM.

JIS NUTS CLASS 8

THREAD	WRENCH SIZE	PART NUMBER
M8 X 1.25	12MM	31342
M10 X 1.25	14MM	31344
M10 X 1.5	14MM	31346
M12 X 1.25	17MM	31348

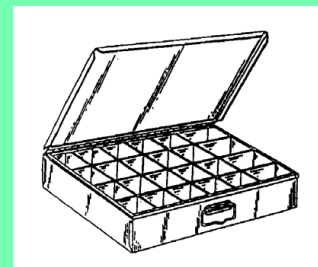


PACKGE IS 25

JIS BOLT ASSORTMENT

80084L

22 ITEMS, 181 PIECES
WITH A 24 COMPARTMENT LARGE METAL TRAY

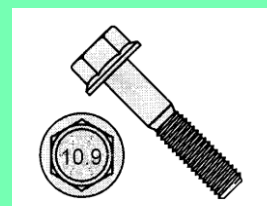


METRIC FLANGE BOLTS

10.9

LENGTH	M6	M8	M10	M12	M16
16	06900	06910			
20	06901	06911	06921		
25	06902	06912	06922	06932	
30	06903	06913	06923	06933	
35	06904	06914	06924	06934	
40	06905	06915	06925	06935	06945
45			069250		
50			06926	06936	06946
60			06927	06937	06947
80					06948

PACKAGE QUANTITY FOR M6 THRU M12 IS 25, M16 IS 10

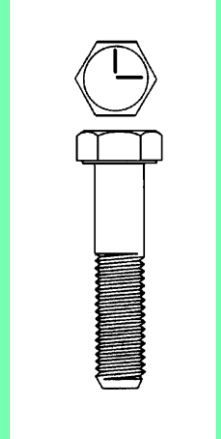




STAINLESS STEEL HEX CAP SCREWS

STAINLESS STEEL HEX CAP SCREWS

LENGTH	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
1/2	05500	05518	05536		
3/4	05501	05519	05537	05554	05565
1	05502	05520	05538	05555	05566
1-1/4	05504	05522	05540	05556	05568
1-1/2	05505	05523	05541	05557	05569
1-3/4	05506	05524	05542	05558	05570
2	05507	05525	05543	05559	05571
2-1/4	05508	05526	05544		05572
2-1/2	05509	05527	05545	05561	05573
2-3/4	05510	05528	05546		05574
3	05511	05529	05547	05562	05575
3-1/2	05512	05530	05548	05563	05576
4	05513	05531	05549	05564	05577
4-1/2	05514	05532	05550		05578
5	05515	05533	05551		05579
5-1/2	05516	05534	05552		05580
6	05517	05535	05553		05581



LENGTH	PACKAGE QUANTITIES				DIAMETER
	1/4	5/16	3/8	7/16	1/2
1/2 - 1	100	100	100	100	100
1-1/4 - 1-1/2	100	100	100	50	50
1-3/4 - 2-1/2	100	100	50	50	50
2-3/4 - 3-1/2	50	50	50	50	25
4 - 6	50	50	25	25	25

LENGTH	5/8-11	3/4-10	7/8-9	1-8
1	05583	05598		
1-1/4	05584	05599		
1-1/2	05585	05600	05613	
1-3/4	05586	05601	05614	
2	05587	05602	05615	05628
2-1/4	05588	05603	05616	
2-1/2	05589	05604	05617	05629
2-3/4	05590	05605	05618	
3	05591	05606	05619	05630
3-1/2	05592	05607	05620	05631
4	05593	05608	05621	05632
4-1/2	05594	05609	05622	05633
5	05595	05610	05623	05634
5-1/2	05596	05611	05624	05635
6	05597	05612	05625	05636
7				05638

LENGTH	PACKAGE QUANTITIES			DIAMETER
	5/8	3/4	7/8	1
1 - 1-1/2	50	25		
1-3/4 - 3	25	25	1	1
3-1/2 - 4-1/2	25	20	ALL	ALL
5 - 6	10	10	1	1



STAINLESS STEEL HEX CAP SCREWS

STAINLESS STEEL HEX CAP SCREWS CON'T

LENGTH	FINE THREADS DIAMETER AND PITCH				
	1/4-28	5/16-24	3/8-24	1/2-20	5/8-18
3/8 1/2 5/8	05651	05665			
3/4 7/8 1	05653 05655	05667 05669	05679 05681	05689 05690	
1 1/8 1 1/4 1 1/2	05657 05658	05671 05672	05682 05683	05691 05692	05699 05700
1 3/4 2 2 1/4	05659 05660 05661	05673 05674 05675	05684 05685 05686	05693 05694 05695	05701 05702*
2 1/2 3 3 1/2	05662 05663	05676 05677	05687 05688	05696 05697 05698	05703*

*PACKAGE QUANTITY 10

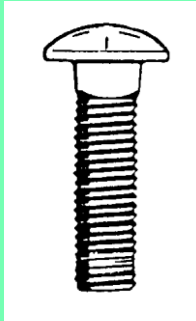
LENGTH	PACKAGE QUANTITIES DIAMETER				
	1/4	5/16	3/8	1/2	5/8
3/8 - 1	100	100	100	100	
1 1/8 - 1 1/2	100	100	100	50	50
1 3/4 - 2 1/2	100	100	50	50	25
3 - 3 1/2	50	50	50	50 & 25	



SHAKER SCREEN BOLTS

SHAKER SCREEN BOLTS

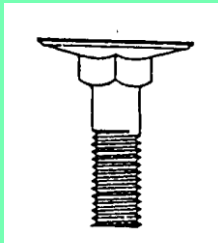
GRADE 5



LENGTH	1/2	5/8	3/4
2	07300	07320	
2-1/2	07301	07321	
3	07302	07322	
3-1/2	07303	07323	07338
4	07304	07324	07339
4-1/2	07305	07325	07340
5	07306	07326	07341
5-1/2		073261	073411
6	07307	07327	07342
9			07345

PACKAGE QUANTITIES ARE 25

ELEVATOR BOLTS STEEL ZINC PLATED



LENGTH	1/4	5/16	3/8
3/4	07400		
1	07401	07408	07415
1-1/4	07402	07409	07416
1-1/2	07403	07410	07417
1-3/4	07404	07411	
2	07405	07412	07419
2-1/2	07406	07413	07420
3	07407	07414	07421

PACKAGE QUANTITIES ARE 100 FOR 1/4 & 5/16, 50 FOR 3/8

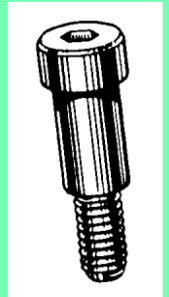


SHOULDER BOLTS

SHOULDER BOLTS

HEAT TREATED ALLOY STEEL

LENGTH	DIAMETER					
	1/4	5/16	3/8	1/2	5/8	3/4
3/8	10700	10710	10720			
1/2	10701	10711	10721	10740		
5/8	10702	10712	10722	10741		
3/4	10703	10713	10723	10742		
1	10704	10714	10724	10743		
1-1/4	10705	10715	10725	10744	10760	
1-1/2	10706	10716	10726	10745	10761	10780
1-3/4		10717	10727	10746	10762	10781
2		10718	10728	10747	10763	10782
2-1/4			10729	10748	10764	10783
2-1/2			10730	10749	10765	10784
2-3/4			10731	10750	10766	10785
3			10732	10751	10767	10786
3-1/4			10733	10752	10768	10787
3-1/2			10734	10753	10769	10788
3-3/4			10735	10754	10770	10789
4			10736	10755	10771	10790
4-1/4				10756	10772	10791
4-1/2				10757	10773	10792
4-3/4				10758	10774	10793
5				10759	10775	10794
5-1/2					10776	10795
6					10777	10796



DIAMETER	PACKAGE QUANTITIES		
	25	10	1
1/4	ALL		
5/16	ALL		
3/8	3/8-3		3 1/4-4
1/2	1/2-3		3 1/4-5
5/8	1 1/4-2 3/4		3-6
3/4		1 1/2-2 3/4	3-6

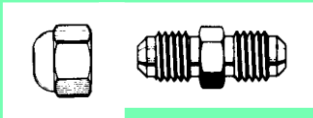


BRASS FITTINGS

BRASS FITTINGS

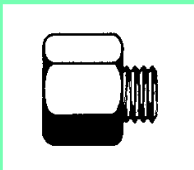
45° FLARED FITTINGS

CAP



TUBE SIZE	PART NUMBER
3/16	63566
1/4	63567
5/16	63568
3/8	63569
1/2	63570
5/8	63571

SAE FEMALE FLARE TO MALE PIPE THREAD ADAPTER



TUBE SIZE	PIPE SIZE	PART NUMBER
1/4	1/8	63572
1/4	1/4	63573
3/8	1/4	63574
1/2	3/8	63575

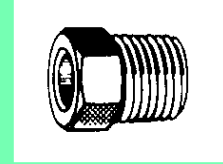


BRASS FITTINGS

INVERTED FLARED FITTINGS

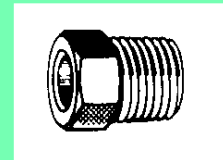
BRASS NUT

TUBE SIZE	PART NUMBER
1/8	63595
3/16	63596
1/4	63597
5/16	63598
3/8	63599
1/2	63600



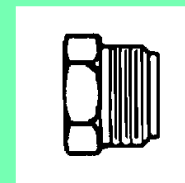
STEEL NUT

TUBE SIZE	PART NUMBER
1/8	63602
3/16	63603
1/4	63604
5/16	63605
3/8	63606
1/2	63607
5/8	63608
3/4	63609



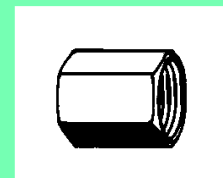
INVERTED FLARE PLUGS

TUBE SIZE	PART NUMBER
3/16	63590
1/4	63591
5/16	63592
3/8	63593
1/2	63594



UNION TUBE TO TUBE

TUBE SIZE	PART NUMBER
1/8	63611
3/16	63612
1/4	63613
5/16	63614
3/8	63615
1/2	63616

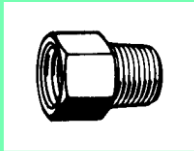




BRASS FITTINGS

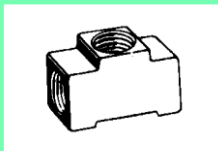
INVERTED FLARED FITTINGS CON'T

MALE CONN. TUBE TO MALE PIPE



TUBE SIZE	PIPE SIZE	PART NUMBER
1/8	1/8	63618
3/16	1/8	63619
1/4	1/8	63620
1/4	1/4	63621
5/16	1/8	63622
5/16	1/4	63623
3/8	1/8	63624
3/8	1/4	63625
3/8	3/8	63627
1/2	1/4	63628
1/2	3/8	63629
1/2	1/2	63630

UNION TEE TUBE TO TUBE TO TUBE



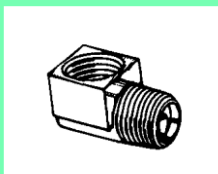
TUBE SIZE	PART NUMBER
3/16	63632
1/4	63633
3/8	63634

45° ELBOW TUBE TO MALE PIPE



TUBE SIZE	PIPE SIZE	PART NUMBER
3/16	1/8	63649
1/4	1/8	63650
5/16	1/8	63651
5/16	1/4	63652
3/8	1/4	63653

MALE ELBOW TUBE TO MALE PIPE



TUBE SIZE	PIPE SIZE	PART NUMBER
1/8	1/8	63636
3/16	1/8	63637
1/4	1/8	63638
1/4	1/4	63639
5/16	1/8	63640
5/16	1/4	63641
3/8	1/8	63642
3/8	1/4	63643
3/8	3/8	63644
1/2	1/4	63645
1/2	3/8	63646
1/2	1/2	63647



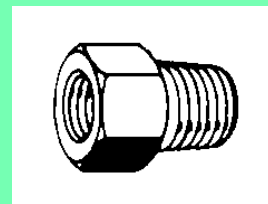
BRASS FITTINGS

BRAKE ADAPTERS

INVERTED FLARE ADAPTERS

TUBE SIZE	MALE THREAD	PART NUMBER
5/16	1/2-20*	WH1074
1/4	1/2-20*	WH7727
1/4	7/16-20*	WH7732
5/16	3/8 MP	WH7771
3/16	1/2-20*	WH7817
3/16	1/4	WH7818
1/4	3/16	WH7828
1/4	5/16	WH7829
3/16	5/16	WH7897
1/4	9/16-18	WH7908
3/16	1/2-20	WH7909
3/16	9/16-20	WH7910
3/16	9/16-18	WH7911
3/16(9/16-18)	1/2-20	WH7912
3/16(1/2-20)	9/16-18	WH7913
3/8	1/2-20	WH7915
5/16	5/8-18	WH7916
5/16	1/4	WH7917

*SEALS ON HEX FACE

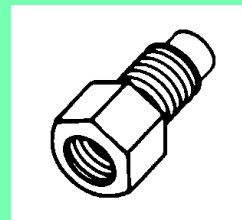


METRIC ADAPTERS

TUBE SIZE MALE	TUBE SIZE FEMALE	PART NUMBERS
M10 X 1.0	3/8-24	WH1442*
M10 X 1.0	3/8-24	WH1443**
M11 X 1.5	M10 X 1.0	WH7935**
M12 X 1.0	M10 X 1.0	WH7936**
M13 X 1.5	M10 X 1.0	WH7937**

*USE S SERIES BRAKE LINES

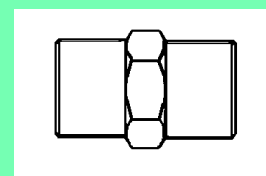
**USE SJ SERIES BRAKE LINES



UNION FOR IMPORT VEHICLES

TUBE SIZE FEMALE	PART NUMBER
3/8-24 (ISO)	WH1594
10 X 1.0 (SC)	WH1595A
10 X 1.0 (SJ)	WH7934A

PACKAGE ON ALL IS 1



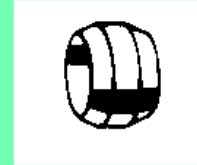


BRASS FITTINGS

COMPRESSION TUBE FITTINGS

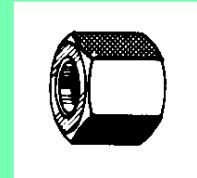
SLEEVE

TUBE SIZE	PART NUMBER
1/8	63655
3/16	63656
1/4	63657
5/16	63658
3/8	63659
7/16	63660
1/2	63661
5/8	63662
3/4	63663
7/8	63664



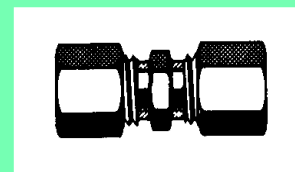
NUT

TUBE SIZE	PART NUMBER
1/8	63666
3/16	63667
1/4	63668
5/16	63669
3/8	63670
7/16	63671
1/2	63672
5/8	63673
3/4	63674
7/8	63675



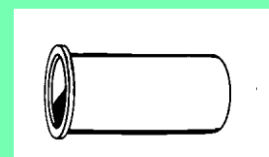
UNION

TUBE SIZE	PART NUMBER
1/8	63677
3/16	63678
1/4	63679
5/16	63680
3/8	63681
7/16	63682
1/2	63683
5/8	63684
3/4	63685
7/8	63686



BRASS INSERT

TUBE SIZE	PART NUMBER
1/4 X 2-1/2	63688
5/16 X 2-1/2	63689
5/16 X 3-7/8	63690
3/8 X 3-7/8	63691
1/2 X 3-7/8	63692
5/8 X 3-7/8	63693

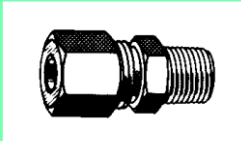




BRASS FITTINGS

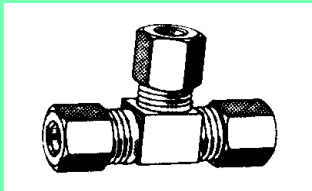
COMPRESSION TUBE FITTINGS CON'T

MALE CONNECTOR TUBE TO MALE PIPE



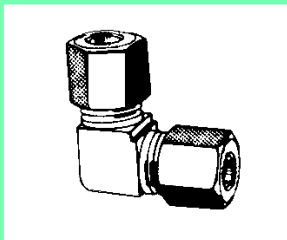
TUBE SIZE	PIPE SIZE	PART NUMBER
1/8	1/8	63695
3/16	1/8	63696
3/16	1/4	63697
1/4	1/8	63698
1/4	1/4	63699
1/4	3/8	63700
5/16	1/8	63701
5/16	1/4	63702
3/8	1/8	63703
3/8	1/4	63704
3/8	3/8	63705
7/16	1/4	63706
1/2	3/8	63707
1/2	1/2	63708
5/8	1/2	63709
5/8	3/4	63710
3/4	1/2	63711
3/4	3/4	63712
7/8	3/4	63713

UNION TEE TUBE TO TUBE TO TUBE



TUBE SIZE	PART NUMBER
1/8	63715
1/4	63716
5/16	63717
3/8	63718
1/2	63719
5/8	63720

UNION ELBOW



TUBE SIZE	PART NUMBER
1/8	63721
3/16	63722
1/4	63723
5/16	63724
3/8	63725
1/2	63726
5/8	73727

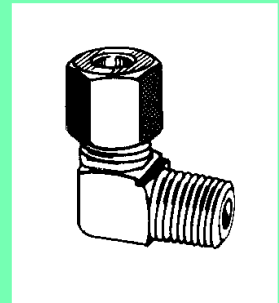


BRASS FITTINGS

COMPRESSION TUBE FITTINGS CON'T

90° MALE ELBOW

TUBE SIZE	PIPE SIZE	PART NUMBER
1/8	1/8	63728
3/16	1/8	63729
1/4	1/8	63730
1/4	1/4	63731
5/16	1/8	63732
5/16	1/4	63733
3/8	1/4	63734
3/8	3/8	63735
1/2	3/8	63736
5/8	1/2	63737
3/4	1/2	63738
3/4	3/4	63739

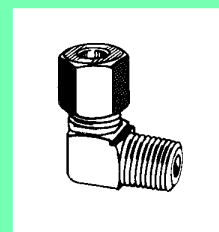
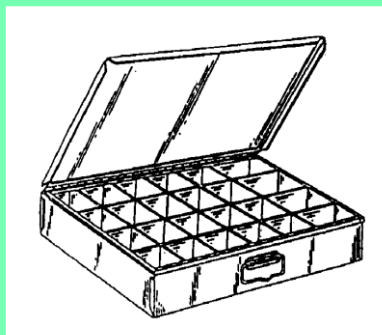
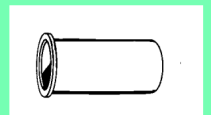


COMPRESSION FITTINGS ASSORTMENTS

80072

80072L*

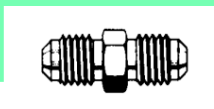
22 ITEMS, 99 PIECES
NUTS, SLEEVES, UNIONS, ELBOWS
*LARGE TRAY





BRASS FITTINGS

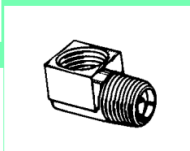
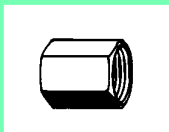
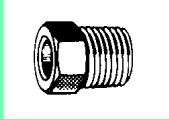
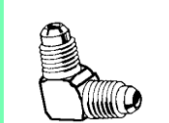
ASSORTMENTS



SAE FLARE FITTINGS

80070 80070L*

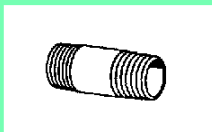
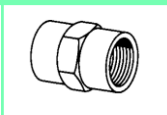
20 ITEMS, 48 PIECES
NUTS, UNION, ELBOWS



INVERTED FLARE FITTINGS

80071 80071L*

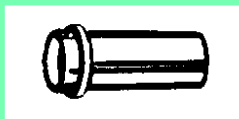
2 ITEMS, 78 PIECES
NUTS, UNIONS, MALE
CONNECTORS, ELBOWS



PIPE FITTINGS

80073 80073L*

24 ITEMS, 50 PIECES
COUPLINGS, BUSHINGS,
NIPPLES, ELBOWS



AIR BRAKE FITTINGS FOR NYLON TUBE

80074 80074L*

24 ITEMS, 70 PIECES
NUTS, SLEEVES, INSERTS,
UNIONS, ELBOWS



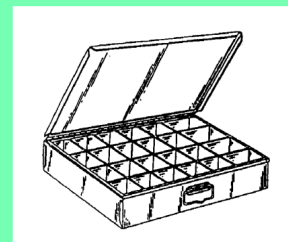
AIR BRAKE FITTINGS FOR COPPER TUBE

80075 80075L*

20 ITEMS, 55 PIECES
NUTS, SLEEVES, UNIONS, MALE
CONNECTORS, ELBOWS



*LARGE TRAY



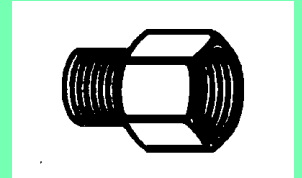


BRASS FITTINGS

PIPE FITTINGS

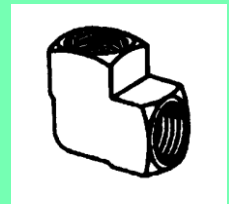
FEMALE PIPE TO MALE PIPE ADAPTER

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8 X 1/8	63800B	1/2 X 1/4	63803A
1/4 X 1/8	63801	1/2 X 3/8	63803
1/4 X 1/4	63801A	1/2 X 1/2	63803B
3/8 X 1/8	63802A	3/4 X 3/8	63804
3/8 X 1/4	63802	3/4 X 1/2	63804A
3/8 X 3/8	63802B	3/4 X 3/4	63804B



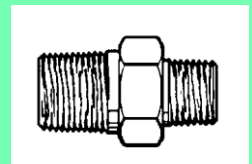
FEMALE PIPE TO FEMALE PIPE 90° ELBOW

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8 X 1/8	63805	3/8 X 3/8	63807
1/4 X 1/8	63805A	1/2 X 3/8	63807A
1/4 X 1/4	63806	1/2 X 1/2	63808
3/8 X 1/4	63806A	3/4 X 3/4	63808A



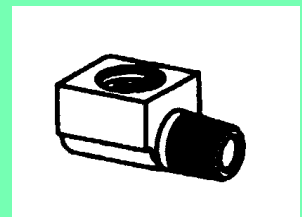
HEX REDUCING NIPPLE

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/4 – 1/8	63786A	1/2 – 1/4	63788A
3/8 – 1/8	63787A	1/2 – 3/8	63788B
3/8 – 1/4	63787B	3/4 – 1/2	63789A



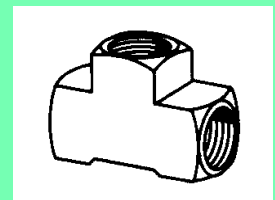
FEMALE PIPE TO MALE PIPE 90° STREET ELBOW

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8 X 1/8	63810	3/8 X 3/8	63813
1/8 X 1/4	63810A	3/8 X 1/2	63813A
1/4 X 1/8	63811	1/2 X 3/8	63813B
1/4 X 1/4	63812	1/2 X 1/2	63814
1/4 X 3/8	63812A	3/4 X 3/4	63814A
3/8 X 1/4	63812B		



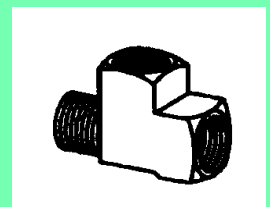
FEMALE PIPE TEE

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8	63816	1/2	63819
1/4	63817	3/4	63820
3/8	63818		



RUN TEE

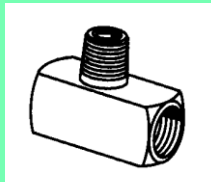
PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8	63816A	1/2	63819A
1/4	63817A	3/4	63820A
3/8	63818A		





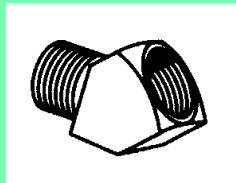
BRASS FITTINGS

PIPE FITTINGS CON'T



MALE BRANCH TEE

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8	63816B	1/2	63819B
1/4	63817B	3/4	63820B
3/8	63818B		



FEMALE PIPE TO MALE PIPE 45° STREET ELBOW

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8 X 1/8	63821	1/2 X 1/2	63824
1/4 X 1/4	63822	3/4 X 3/4	63825
3/8 X 3/8	63823		

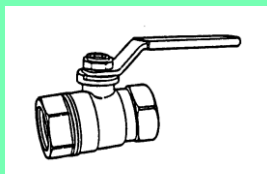


HOSE MENDER

HOSE SIZE	PART NUMBER	HOSE SIZE	PART NUMBER
3/16	63853	3/8	63856
1/4	63854	1/2	63857
5/16	63855		

DOMESTIC BALL VALVES

600 WOG



PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/8	63989	3/4	63983
1/4	63980	1	63984
3/8	63981	1 1/4	63985
1/2	63982	1 1/2	63986

BALL VALVES

600 PSI, GOOD FOR WATER, OIL OR GAS

PIPE SIZE	PART NUMBER	PIPE SIZE	PART NUMBER
1/4	63990	1	63994
3/8	63991	1-1/4	63995
1/2	63992	1-1/2	63996
3/4	63993	2	63997

SINTERED BRONZE MUFFLER



THREAD SIZE	PART NUMBER	THREAD SIZE	PART NUMBER
10-32	64670	3/8	64673
1/8 MP	64671	1/2 MP	64674
1/4 MP	64672		



BREATHER VENT

THREAD	LENGTH	HEX	PART NUMBER
1/8 MP	1/2	7/16	64677
1/4 MP	11/16	9/16	64678

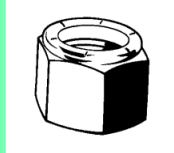


BRASS FITTINGS

NUTS

METRIC NYLON LOCK NUTS

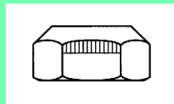
SIZE	PART NUMBER	PACKAGE
M4 X .7	31350	50
M5 X .8	31351	50
M6 X 1.00	31352	50
M7 X 1.00	31353	50
M8 X 1.25	31354	50
M10 X 1.50	31355	25
M12 X 1.75	31356	25
M14 X 2.00	31357	25
M16 X 2.00	31358	10
M18 X 2.50	31359	10
M20 X 2.50	31360	10
M22 X 2.50	31361	1
M24 X 3.00	31362	1
M27 X 3.00	31363	1
M30 X 3.50	31364	1
M33 X 3.50	31365	1



METRIC ALL METAL LOCK NUTS

DIN980U CLASS 10 COARSE THREAD

SIZE	PART NUMBER	PACKAGE
M6 X 1.00	31380	50
M8 X 1.25	31381	50
M10 X 1.50	31382	50
M12 X 1.75	31383	50
M14 X 2.00	31384	10
M18 X 2.50	31386	10
M20 X 2.50	31387	10



METRIC ALL METAL LOCK NUTS

FINE THREAD

SIZE	PART NUMBER	PACKAGE
M10 X 1.25	31390	25
M12 X 1.50	31391	25
M14 X 1.50	31392	25
M16 X 1.50	31393	25

STAINLESS STEEL METRIC HEX NUTS

SIZE	PART NUMBER	PACKAGE
M5 X .8	31280	50
M6 X 1.00	31281	50
M8 X 1.25	31282	50
M10 X 1.50	31283	25
M12 X 1.75	31284	25
M14 X 2.00	31285	25
M16 X 2.00	31286	10
M20 X 2.50	31287	10
M24 X 3.00	31288	10



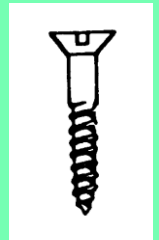


BRASS FITTINGS

WOOD SCREWS

SLOTTED FLAT HEAD BRASS

LENGTH	DIAMETER				
	#4	#5	#6	#7	#8
1/4	18560	18570			
3/8	18561	18571	18580		
1/2	18562	18572	18581	18591	18600
5/8	18563	18573	18582	18592	18601
3/4	18564	18574	18583	18593	18602
7/8			18584	18594	18603
1		18575	18585	18595	18604
1 1/4			18586	18596	18605
1 1/2			18587	18597	18606
1 3/4					18607
2					18608
2 1/2					18609
3					18610



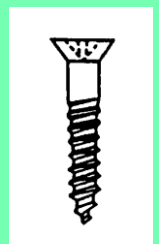
LENGTH	DIAMETER			
	#9	#10	#12	#14
1/2		18640		
5/8	18621	18641		
3/4	18622	18642	18660	
7/8	18623	18643	18661	
1	18624	18644	18662	18672
1 1/4	18625	18645	18663	18673
1 1/2	18626	18646	18664	18674
1 3/4	18627	18647	18665	18675
2	18628	18648	18666	18676
2 1/2		18649	18667	18677
3		18650	18668	18678

PACKAGE ON ALL IS 100

PHILLIPS FLAT HEAD BRASS

LENGTH	#4	#6	#8	#10	#12	#14
1/4	18201					
3/8	18202					
1/2	18203	18207	18213			
5/8	18204	18208	18214			
3/4	18205	18209	18215	18220		
1	18206	18210	18216	18221	18227	18233
1-1/4		18211	18217	18222	18228	18234
1-1/2		18212	18218	18223	18229	18235
2		182121	18219	18224	18230	18236
2-1/2			182191	18225	18231	18237
3			182192	18226	18232	18238
3 1/2		182124				

PACKAGE IS 100 UP TO 1-1/2 IS 50, 2 & 3 ARE 25





BULBS

BULBS

ROUGH SERVICE BULBS

WATT	PART NUMBER
50	79070
75	79071
100	79072

TUFF SKIN BULBS

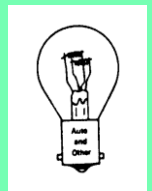
WATT	PART NUMBER
75	79073
100	79074

PACKAGE FOR ALL ABOVE IS 6

SMALL AUTOMOTIVE BULBS

STD NUMBER	TYPE	PART NUMBER	STD NUMBER	TYPE	PART NUMBER
51	INDICATOR	52001	631	DOME	52029
53	INDICATOR	52002	906	TYPE 10	520461
55	INSTRUMENT	52004	1003	DOME	52030
57	INSTRUMENT	52005	1004	DOME	52031
63	LICENSE	52006	1016	STOP	52032
64	INSTRUMENT	52007	1073	FRONT	52033
67	CLEARANCE	52008	1076	FRONT	52034
68	TAIL	52009	1129	DIRECTION	52035
88	DOME	52011	1141	REAR TURN	52018
89	DOME	52010	1142	INTERIOR	52036
90	DOME	52013	1143	SPECIAL	52037
93	DOME	52014	1154	STOP	52038
94	TAIL	52016	1155	MARKER	52039
97	INSTRUMENT	52017	1156	FRONT TURN	52020
98	DOME	52019	1157	STOP, TAIL	52024
99	DOME	52021	1157NA	SIGNAL	52045
104	DOME	52023	1158	STOP, TAIL	52040
105	DOME	52025	1176	STOP, TURN	52041
158	INSTRUMENT	52026	1383	RV/VAN	52042
194	INSTRUMENT	52012	1445	INSTRUMENT	52043
194NA	TYPE 2	52046	1850	SIGNAL	52044
198	TRUCK, STOP	52027	1893	TYPE 5	520462
199	TRUCK	52028	1895	CLEARANCE	52015
211	INTERIOR	52022	3156	TYPE 7	52003

PACKAGE IS 10



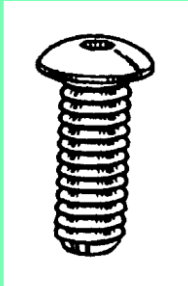


CAP SCREWS

CAP SCREWS

BUTTON HEAD SOCKET

ALLOY STEEL PLAIN FINISH



LENGTH	DIAMETER						
	2-56	3-48	4-40	6-32	8-32	10-24	10-32
3/16	10620	10625					
1/4	10621	10626	10630	10635	10640	10645	106451
3/8	10622	10627	10631	10636	10641	10646	106461
1/2	10623	10628	10632	10637	10642	10647	106471
5/8				10638	10643	10648	106481
3/4				10639	10644	10649	106491
7/8						10650	106501
1				106392	106442	10651	106511
1-1/4				106393	106443	10652	1065111
1-1/2					106444	10653	1065112
1-3/4					106445	10654	1065113
2					106446		1065114

LENGTH	DIAMETER				
	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11
3/8	10655	10665			
1/2	10656	10666	10672		
5/8	10657	10667	10673		
3/4	10658	10668	10674		
7/8	10659	10669	10675		
1	10660	10670	10676	10680	10685
1-1/4	10661		10677	10681	10686
1-1/2	10662	10671	10678	10682	10687
1-3/4	106621				
2	10663			10683	10688
3	10664				

PACKAGE QUANTITIES FOR 5/8 DIAMETER ARE 50 ALL OTHERS ARE 100

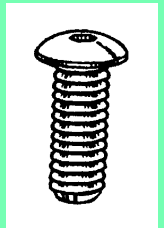


CAP SCREWS

BUTTON HEAD SOCKET CON'T

STAINLESS STEEL

LENGTH	2-56	3-48	4-40	6-32
3/16	SS10620	SS10625		
1/4	SS10621	SS10626	SS10630	SS10635
3/8	SS10622	SS10627	SS10631	SS10636
1/2	SS10623	SS10628	SS10632	SS10637
5/8				SS10638
3/4				SS10639



LENGTH	8-32	10-24	10-32
1/4	SS10640	SS10645	SS106451
3/8	SS10641	SS10646	SS106461
1/2	SS10642	SS10647	SS106471
5/8	SS10643	SS10648	SS106481
3/4	SS10644	SS10649	SS106491
7/8		SS10650	SS106501
1		SS10651	SS106511

LENGTH	1/4-20	5/16-18	3/8-16	1/2-13
3/8	SS10655			
1/2	SS10656	SS10666	SS10672	
5/8	SS10657	SS10667		
3/4	SS10658	SS10668	SS10674	
7/8	SS10659	SS10669		
1	SS10660	SS10670	SS10676	SS10680
1-1/4	SS10661		SS10677	SS10681
1-1/2	SS10662		SS10678	SS10682
1-3/4		SS106712		
2	SS10663		SS10679	SS10683

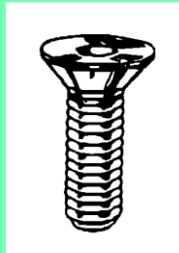
DIAMETER	PACKAGE QUANTITIES		
	100	50	25
2-56 THRU 5/16	ALL		
3/8	TO 1-1/2	2	
1/2		TO 1-1/2	2



CAP SCREWS

FLAT SOCKET

ALLOY STEEL PLAIN FINISH



LENGTH	DIAMETER			
	2-56	3-48	4-40	5-40
3/16	10500	10505		
1/4	10501	10506	10510	10515
3/8	10502	10507	10511	10516
1/2	10503	10508	10512	10517
5/8			10513	10518
3/4			10514	10519

LENGTH	DIAMETER			
	6-32	8-32	10-24	10-32
1/4	10520			
3/8	10521	10525	10530	11530
1/2	10522	10526	10531	11531
5/8	10523	10527	10532	11533
3/4	10524	10528	10533	11534
1		10529	10534	11536
1-1/4			10535	11537
1-1/2			10536	11538

ALL PACKAGE QUANTITIES ARE 100

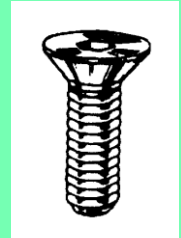


CAP SCREWS

FLAT SOCKET CON'T

ALLOY STEEL-PLAIN FINISH CON'T

LENGTH	1/4-20	5/16-18	3/8-16	7/16-14
3/8	10540			
1/2	10541	10550	10560	
5/8	10542	10551	10561	
3/4	10543	10552	10562	10572
1	10544	10553	10563	10573
1-1/4	10545	10554	10564	10574
1-1/2	10546	10555	10565	10575
1-3/4	10547	10556	10566	10576
2	10548	10557	10567	10577
2-1/4		10558	10568	
2-1/2		10559	10569	
3		105591	10570	
3-1/2		105592	10571	
4		105593	105711	



PACKAGE QUANTITIES ARE 100 UP TO 3", 3-1/2" & 4" ARE 50

LENGTH	1/2-13	5/8-11	3/4-10	1-8
3/4	10580			
1	10581			
1-1/4	10582	10590	10600	
1-1/2	10583	10591	10601	
1-3/4	10584	10592	10602	
2	10585	10593	10603	
2-1/4	10586	10594	10604	
2-1/2	10587	10595	10605	
3	10588	10596	10606	
3-1/2		10597		10614

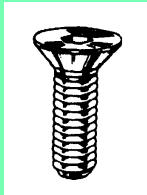
DIAMETER	LENGTH AND PACKAGE QUANTITIES				
	100	50	25	10	1
1/2	3/4 TO 1-1/2	1-3/4 TO 3			
5/8			1-1/4 TO 2	2-1/4 TO 3 1/2	
3/4				ALL	
1"					ALL



CAP SCREWS

FLAT SOCKET CON'T

STAINLESS STEEL



LENGTH	2-56	3-48	4-40	5-40
3/16	SS10500			
1/4	SS10501	SS10506	SS10510	SS10515
3/8	SS10502	SS10507	SS10511	SS10516
1/2	SS10503	SS10508	SS10512	SS10517
5/8			SS10513	SS10518
3/4		SS10509	SS10514	SS10519

LENGTH	6-32	8-32	10-24	10-32
1/4	SS10520			
3/8	SS10521	SS10525	SS10530	SS11530
1/2	SS10522	SS10526	SS10531	SS11531
5/8	SS10523	SS10527	SS10532	SS11532
3/4	SS10524	SS10528	SS10533	SS11533
1		SS10529	SS10534	SS11534
1-1/4			SS10535	SS11535
1-1/2			SS10536	SS11536

LENGTH	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
3/8	SS10540				
1/2	SS10541	SS10550	SS10560		
5/8	SS10542	SS10551	SS10561		
3/4	SS10543	SS10552	SS10562		SS10580
1	SS10544	SS10553	SS10563		SS10581
1-1/4	SS10545	SS10554	SS10564		SS10582
1-1/2	SS10546	SS10555	SS10565	SS10575	SS10583
1-3/4	SS10547	SS10556	SS10566		SS10584
2	SS10548	SS10557	SS10567		SS10585
2-1/4		SS10558	SS10568		SS10586
2-1/2		SS10559	SS10569		SS10587
3			SS10570		SS10588

DIAMETER	PACKAGE QUANTITIES		
	100	50	25
6-32 THRU 5/16	ALL		
3/8	TO 2-1/4	TO 3	
1/2		TO 2-1/2	3



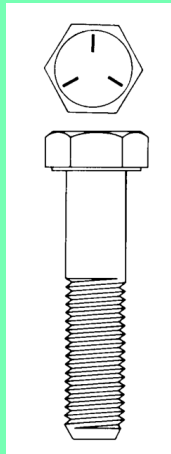
CAP SCREWS

GRADE 5 HEX HEAD CAP SCREW

MADE IN U.S.A AND CANADA

MEDIUM CARBON STEEL, HEAT TREATED TO SAE J429. ZINC PLATED WITH CLEAR CHROMATE. MINIMUM TENSILE STRENGTH 1/4 TO 3/4 DIAMETER 120,P.S.I.

COARSE THREADS



LENGTH	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
1/2	02001	02031	02060		
5/8	02002	02032	02061		
3/4	02003	02033	02062	02090	02121
1	02005	02035	02064	02091	02122
1-1/4	02006	02036	02065	02092	02123
1-1/2	02007	02037	02066	02093	02124
1-3/4	02008	02038	02067	02094	02125
2	02009	02039	02068	02095	02126
2-1/4	02010	02040	02069	02096	02127
2-1/2	02011	02041	02070	02097	02128
2-3/4	02012	02042	02071	02098	02129
3	02013	02043	02072	02099	02130
3-1/4	020131	020431			021301
3-1/2	02014	02044	02073	02100	02131
4	02015	02045	02074	02101	02132
4-1/2	02016	02046	02075	02102	02133
5	02017	02047	02076	02103	02134
5-1/2	02018	02048	02077	02104	02135
6	02019	02049	02078	02105	02136
6-1/2		02050	02079		02137
7			02080		02138
7-1/2			02081		02139
8	02023				02140
8-1/2			02083		021402
9					02142
9-1/2					02143
10					02144
11					021441
12					021448

PACKAGE QUANTITIES					
LENGTH	1/4	5/16	3/8	7/16	1/2
1/2 – 1	100	100	100	100	100
1-1/4 – 1-1/2	100	100	100	50	50
1-3/4 – 2-1/2	100	100	50	50	50
2-3/4 – 3	50	50	50	50	50
3-1/2	50	50	50	50	25
4	50	50	25	25	25
5	50	50	25	25	25
6	50	50	25	25	25
OVER	1	1	1	1	1



CAP SCREWS

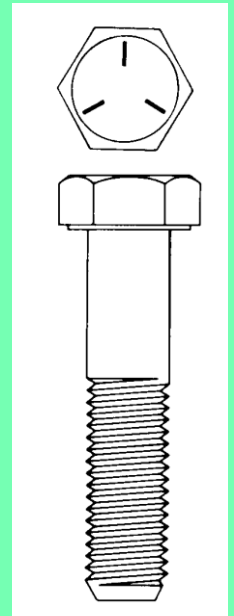
MINIMUM TENSILE STRENGTH FOR 7/8 – 1 INCH GRADE 5 IS 115,000 PSI

GRADE 5 HEX HEAD CAP SCREW CON'T

FOR 1-1/2 – 1-1/2 105,000 PSI

COARSE THREADS

LENGTH	9/16-12	5/8-11	3/4-10	7/8-9	1-8
1	02145	02161	02200		
1-1/4	02146	02162	02201		
1-1/2	02147	02163	02202		
1-3/4	02148	02164	02203		
2	02149	02165	02204	02243	02283
2-1/4	02150	02166	02205	02244	02284
2-1/2	02151	02167	02206	02245	02285
2-3/4	02152	02168	02207	02246	02286
3	02153	02169	02208	02247	02287
3-1/4			02209	022471	
3-1/2	02154	02171	02210	02249	02289
3-3/4			02211		
4	02155	02173	02212	02251	02291
4-1/2	02156	02174	02213	02252	02292
5	02157	02175	02214	02253	02293
5-1/2	02158	02176	02215	02254	02294
6	02159	02177	02216	02255	02295
6-1/2		02178	02217	02256	02296
7		02179	02218	02257	02297
7-1/2		02180	02219	02258	02298
8		02181	02220	02259	02299
8-1/2		02182	02221		
9		02183	02222	02261	02301
9-1/2			02223		
10		02185	02224	02263	02303
11		02189	02228		
12			02229		



LENGTH	1-1/8-7	1-1/4-7	1-1/2-6
3	02325	02354	
3-1/2	02326	02355	
4	02327	02356	
4-1/2	02328	02357	
5	02329	02358	02392
5-1/2	02330	02359	
6	02331	02360	
7	02333	02362	
8	02335	02364	
9	02337	02366	
10	02339	02368	

DIAMETER	PACKAGE QUANTITIES				
	50	25	20	10	1
9/16 – 5/8 3/4	1 – 1 1/2	1 3/4 – 3 1 1/4 - 3	3 1/2 – 4 1/2 3 1/4 – 4 1/2	5 – 6 5 - 6	ABOVE 6 ABOVE 6
7/8 – 1 1/2					ALL



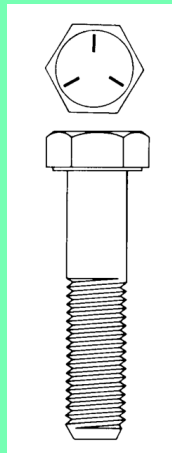
CAP SCREWS

GRADE 5 HEX HEAD CAP SCREW CON'T

MADE IN U.S.A AND CANADA

MEDIUM CARBON STEEL, HEAT TREATED TO SAE J429. ZINC PLATED WITH CLEAR CHROMATE. MINIMUM TENSILE STRENGTH 1/4 TO 3/4 DIAMETER 120,P.S.I.

FINE THREADS



LENGTH	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20
1/2	03001	03031	03060		
3/4	03003	03033	03062	03090	03121
1	03005	03035	03064	03091	03122
1-1/4	03006	03036	03065	03092	03123
1-1/2	03007	03037	03066	03093	03124
1-3/4	03008	03038	03067	03094	03125
2	03009	03039	03068	03095	03126
2-1/4	03010	03040	03069	03096	03127
2-1/2	03011	03041	03070	03097	03128
2-3/4	03012	03042	03071	03098	03129
3	03013	03043	03072	03099	03130
3-1/2	03014	03044	03073	03100	03131
4	03015	03045	03074	03101	03132
4-1/2	03016	03046	03075		03133
5	03017	03047	03076	03103	03134
5-1/2	03018	03048	03077	03104	03135
6	03019	03049	03078	03105	03136
6-1/2					03137
7					03138
7-1/2					03139
8					03140
9					03142
10					03144

PACKAGE QUANTITIES

LENGTH	1/4	5/16	3/8	7/16	1/2
1/2 – 1	100	100	100	100	100
1-1/4 – 1-1/2	100	100	100	50	50
1-3/4 – 2-1/2	100	100	50	50	50
2-3/4 – 3	50	50	50	50	50
3-1/2	50	50	50	50	25
4	50	50	25	25	25
5	50	50	25	25	25
6	50	50	25	25	25
OVER	1	1	1	1	1

MINIMUM TENSILE STRENGTH FOR 7/8 – 1 INCH GRADE 5 IS 115,000 PSI



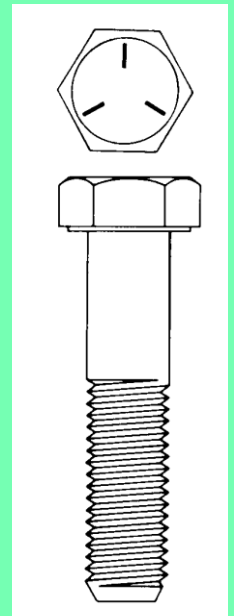
CAP SCREWS

GRADE 5 HEX HEAD CAP SCREW CON'T

FOR 1-1/8 – 1-1/2 105,000 PSI

FINE THREADS

LENGTH	9/16-18	5/8-18	3/4-16	7/8-14	1-14
1	03145	03161			
1-1/4	03146	03162	03201		
1-1/2	03147	03163	03202		
1-3/4	03148	03164	03203		
2	03149	03165	03204	03243	03283
2-1/4	03150	03166	03205	03244	03284
2-1/2	03151	03167	03206	03245	03285
2-3/4	03152	03168	03207	03246	03286
3	03153	03169	03208	03247	03287
3-1/2	03154	03171	03210	03249	03289
4	03155	03173	03212	03251	03291
4-1/2	03156	03174	03213	03252	03292
5	03157	03175	03214	03253	03293
5-1/2	03158	03176	03215	03254	03294
6	03159	03177	03216	03255	03295
6-1/2		03178	03217	03256	03296
7		03179	03218	03257	03297
7-1/2		03180	03219	03258	03298
8		03181	03220	03259	03299
9		03183	03222	03261	03301
10		03185	03224	03263	03303



LENGTH	1 1/8-12	1 1/4-12
3	03325	03354
3-1/2	03326	03355
4	03327	03356
4-1/2	03328	03357
5	03329	03358
5-1/2	03330	03359
6	03331	03360
7	03333	03362
8	03335	03364
9	03337	03366
10	03339	03368

DIAMETER	PACKAGE QUANTITIES				
	50	25	20	10	1
9/16 – 5/8 3/4	1 – 1 1/2	1 3/4 – 3 1 1/4 - 3	3 1/2 – 4 1/2 3 1/4 – 4 1/2	5 – 6 5 - 6	ABOVE 6 ABOVE 6
7/8 – 1 1/4					ALL



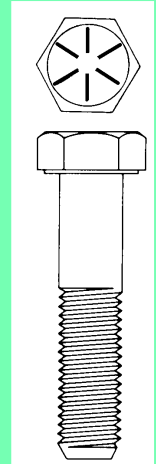
CAP SCREWS

GRADE 8 HEX HEAD CAP SCREW

COARSE THREAD

**150,000 P.S.I. TENSILE STRENGTH. HEAT TREATED
ALLOY STEEL DICHROMATE PLATED**

LENGTH	DIAMETER				
	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
1/2	04001	04031	04060		
5/8		04032			
3/4	04003	04033	04062	04090	04121
1	04005	04035	04064	04091	04122
1 1/4	04006	04036	04065	04092	04123
1 1/2	04007	04037	04066	04093	04124
1 3/4	04008	04038	04067	04094	04125
2	04009	04039	04068	04095	04126
2 1/4	04010	04040	04069	04096	04127
2 1/2	04011	04041	04070	04097	04128
2 3/4	04012	04042	04071	04098	04129
3	04013	04043	04072	04099	04130
3 1/2	04014	04044	04073	04100	04131
3-3/4	040141				
4	04015	04045	04074	04101	04132
4 1/2	04016	04046	04075	04102	04133
5	04017	04047	04076	04103	04134
5 1/2	04018	04048	04077	04104	04135
6	04019	04049	04078	04105	04136
6 1/2			04079		04137
7					04138
7 1/2	04022		04081		04139
8			04082		04140
10					041404
11					041406



DIAMETER	PACKAGE QUANTITIES			
	100	50	25	1
1/4	1/2 - 2 1/2	2 3/4 - 6		7-1/2
5/16	1/2 - 2 1/2	2 3/4 - 6		
3/8	1/2 - 1 1/2	1 3/4 - 3 1/2	4 - 6	7-1/2
7/16	1/2 - 1	1 1/4 - 3 1/2	4 - 6	
1/2	1/2 - 1	1 1/4 - 3 1/2	4 - 6	6 1/2 - 11

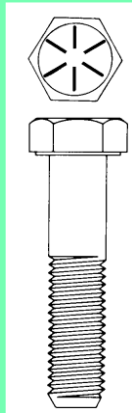


CAP SCREWS

GRADE 8 HEX HEAD CAP SCREW CON'T

COARSE THREAD CON'T

**150,000 P.S.I. TENSILE STRENGTH. HEAT TREATED
ALLOY STEEL DICHROMATE PLATED**



LENGTH	DIAMETER				
	9/16	5/8	3/4	7/8	1
1	04141	04161	04200		
1 1/4	04142	04162	04201		
1 1/2	04143	04163	04202	04241	
1 3/4	04144	04164	04203	04242	
2	04145	04165	04204	04243	04283
2 1/4	04146	04166	04205	04244	04284
2 1/2	04147	04167	04206	04245	04285
2 3/4	04148	04168	04207	04246	04286
3	04149	04169	04208	04247	04287
3-1/4			04209		
3-1/2	04150	04171	04210	04249	04289
3-3/4			04211	04250	
4	04151	04173	04212	04251	04291
4-1/4		041731			
4-1/2	04152	04174	04213	04252	04292
5	04153	04175	04214	04253	04293
5 1/2	04154	04176	04215	04254	04294
6	04155	04177	04216	04255	04295
6 1/2		04178	04217	04256	04296
7		04179	04218	04257	04297
7 1/2		04180	04219	04258	04298
8	04159	04181	04220	04259	04299
8-1/2			04221	04260	04300
9		04185		04261	04301
9-1/2				04262	04302
10		04190	04227	04263	04303
11		04192		04265	04304
12		04193	04234		04305
13			04236		04306
16					04309

DIAMETER	PACKAGE QUANTITIES				
	50	25	20	10	1
9/16	1 - 1 1/2	1 3/4 - 3	TO 4 1/2	5 - 6	
5/8	1 - 1 1/2	TO 3 1/2	4 - 5	TO 6 1/2	7 -10
3/4		1 - 3	TO 4 1/2	5 - 6	7 -12
7/8					ALL
1					ALL



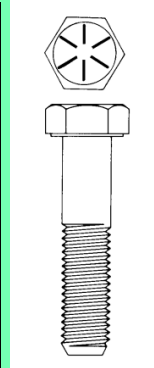
CAP SCREWS

GRADE 8 HEX HEAD CAP SCREW CON'T

COARSE THREAD CON'T

150,000 P.S.I. TENSILE STRENGTH, HEAT TREATED
ALLOY STEEL

LENGTH	DIAMETER			
	1-1/8-7	1-1/4-7	1-3/8-6	1-1/2-6
2-1/2	04315	04345		04389
3	04316			
3-1/2	04318			
4	04322	04349		04390
4-1/2	04323	04350		04391
5	04324	04351		04392
5-1/2	04325	04352		04393
6	04326	04353		04394
6-1/2	04327	04354		04395
7	04328	04355		04396
7-1/2	04329	04356		04397
8	04330	04357	0437552.80	04398
9	04332	04361	04379	04400
10				04401
12		04364		

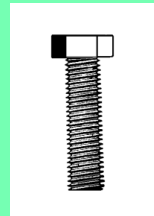


PACKAGE IS 1 ON ALL

LENGTH	DIAMETER	
	1-3/4	2
7		04440
8		
9		
10	04430	04450
17		

GRADE 8 FULL THREAD TAP BOLTS

LENGTH	DIAMETER				
	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10
1-1/2	048043	048068	048130	048145	048160
2		048070			
3		048072			
4		048076	048131	048146	048162
5			048132	048147	048164
6			048136	048148	048166

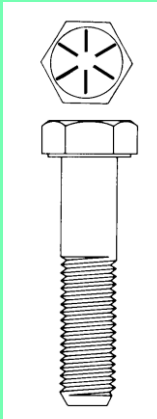




CAP SCREWS

GRADE 8 HEX HEAD CAP SCREW CON'T FINE THREAD PLAIN FINISH

150,000 P.S.I. TENSILE STRENGTH. HEAT TREATED
ALLOY STEEL DICHROMATE PLATED



LENGTH	DIAMETER		
	1/2	5/8	3/4
1	P05122	P05161	P05200
1 1/2	P05124	P05163	P05202
2	P05126	P05165	P05204
2 1/2	P05128	P05167	P05206
3	P05130	P05169	P05208
3 1/2	P05131	P05171	P05210
4	P05132	P05173	P05212
5		P05175	
5 1/2		P05176	

	PACKAGE AND LENGTH						
DIA	1	1 1/2	2	2 1/2	3	3 1/2	4
1/2	400	300	250	225	200	150	150
5/8	250	200	175	125	100	100	90
3/4	150	125	100	90	80	70	60

GRADE 8 HEX NUT PLAIN

1/2-20	5/8-18	3/4-16
P30017	P30021	P30023

GRADE 8 NYLON LOCK NUT PLAIN

1/2	5/8	3/4
P35059	P35063	P35065

GRADE 8 FLAT WASHER PLAIN FINISH

1/2	5/8	3/4
P37084	P37086	P37087



CAP SCREWS

GRADE 8 HEX HEAD CAP SCREWS CON'T FINE THREAD

150,000 P.S.I. TENSILE STRENGTH HEAT TREATED ALLOY STEEL DICHROMATE PLATED

LENGTH	DIAMETER				
	1/4	5/16	3/8	7/16	1/2
1/2	05001	05031	05060		
3/4	05003	05033	05062	05090	05121
1	05005	05035	05064	05091	05122
1 1/4	05006	05036	05065	05092	05123
1 1/2	05007	05037	05066	05093	05124
1 3/4	05008	05038	05067	05094	05125
2	05009	05039	05068	05095	05126
2 1/4	05010	05040	05069	05096	05127
2 1/2	05011	05041	05070	05097	05128
2 3/4	05012	05042	05071	05098	05129
3	05013	05043	05072	05099	05130
3 1/2	05014	05044	05073	05100	05131
4	05015	05045	05074	05101	05132
4 1/2	05016	05046	05075	05102	05133
5	05017	05047	05076	05103	05134
5 1/2	05018	05048	05077	05104	05135
6	05019	05049	05078	05105	05136
6 1/2					05137
7					05138
7 1/2					05139
8					05140

DIAMETER	PACKAGE QUANTITIES			
	100	50	25	1
1/4	1/2 - 2 1/2	2 3/4 - 6		
5/16	1/2 - 2 1/2	2 3/4 - 6		
3/8	1/2 - 1 1/2	1 3/4 - 3 1/2	4 - 6	
7/16	1/2 - 1	1 1/4 - 3 1/2	4 - 6	
1/2	1/2 - 1	1 1/4 - 3 1/2	4 - 6	6 1/2 - 8

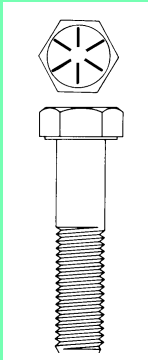


CAP SCREWS

GRADE 8 HEX HEAD CAP SCREW CON'T

FINE THREAD CON'T

150,000 P.S.I. TENSILE STRENGTH HEAT TREATED ALLOY STEEL DICHROMATE PLATED



LENGTH	DIAMETER				
	9/16	5/8	3/4	7/8	1-1 1/4
1	05141	05161	05200		
1 1/4	05142	05162	05201		
1 1/2	05143	05163	05202	05241	
1 3/4	05144	05164	05203	05242	
2	05145	05165	05204	05243	05283
2 1/4	05146	05166	05205	05244	05284
2 1/2	05147	05167	05206	05245	05285
2 3/4	05148	05168	05207	05246	05286
3	05149	05169	05208	05247	05287
3 1/2	05150	05171	05210	05249	05289
4	05151	05173	05212	05251	05291
4 1/2	05152	05174	05213	05252	05292
5	05153	05175	05214	05253	05293
5 1/2	05154	05176	05215	05254	05294
6	05155	05177	05216	05255	05295
6 1/2		05178	05217	05256	05296
7		05179	05218	05257	05297
7 1/2		05180	05219	05258	05298
8	05159	05181	05220	05259	05299
8 1/2			05221		

DIAMETER	PACKAGE QUANTITIES				
	50	25	20	10	1
9/16	1 - 1 1/2	1 3/4 - 3	3 1/2 - 4 1/2	5 - 6	
5/8	1 - 1 1/2	1 3/4 - 3 1/2	4 - 5	5 1/2 - 6 1/2	7 - 8
3/4		1 - 3	3 1/2 - 4 1/2	5 - 6	7 - 8
7/8					ALL
1					ALL



CAP SCREWS

METRIC SOCKET HEAD

METRIC ALLOY STEEL GRADE 12.9

LENGTH	DIAMETER					
	1.6	2	2.5	3	4	5
3	M01.6003	M02003				
4	M01.6004	M02004	M02.5004			
5	M01.6005	M02005	M02.5005	M03005	M04005	
6	M01.6006	M02006	M02.5006	M03006	M04006	M05006
8		M02008	M02.5008	M03008	M04008	M05008
10		M02010	M02.5010	M03010	M04010	M05010
12		M02012	M02.5012	M03012	M04012	M05012
16			M02.5016	M03016	M04016	M05016
20				M03020	M04020	M05020
25			M02.5030	M03025	M04025	M05025
30				M03030	M04030	M05030
35				M03035	M04035	M05035
40					M04040 M04045 M04050	M05040
45						M05045
50						M05050
55						M05055
60						M05060
65						M05065
70						M05070
75						M05075
80						M05080

ALL PACKAGE QUANTITIES ARE 100

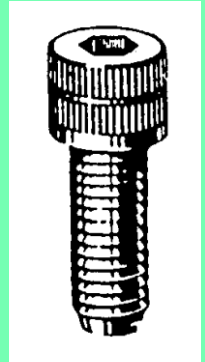


CAP SCREWS

METRIC SOCKET HEAD CON'T

METRIC ALLOY STEEL GRADE 12.9 CON'T

LENGTH	DIAMETER				
	6-1.0	8-1.25	10-1.5	12-1.25	14-2.0
8	M06008				
10	M06010	M08010			
12	M06012	M08012	M10012	M12012	
16	M06016	M08016	M10016	M12016	
20	M06020	M08020	M10020	M12020	
25	M06025	M08025	M10025	M12025	
30	M06030	M08030	M10030	M12030	M14030
35	M06035	M08035	M10035	M12035	M14035
40	M06040	M08040	M10040	M12040	M14040
45	M06045	M08045	M10045	M12045	M14045
50	M06050	M08050	M10050	M12050	M14050
55	M06055	M08055	M10055	M12055	M14055
60	M06060	M08060	M10060	M12060	M14060
65	M06065	M08065	M10065	M12065	M14065
70	M06070	M08070	M10070	M12070	M14070
75	M06075	M08075	M10075	M12075	
80	M06080	M08080	M10080	M12080	M14080
90	M06090	M08090	M10090	M12090	M14090
100	M06100	M08100	M10100	M12100	M14100
110	M06110	M08110	M10110	M12110	M14110
120	M06120	M08120	M10120	M12120	M14120
130		M08130	M10130	M12130	M14130
140		M08140	M10140	M12140	
150		M08150	M10150	M12150	
160		M08160	M10160	M12160	
180		M08180	M10180	M12180	
200		M08200	M10200	M12200	



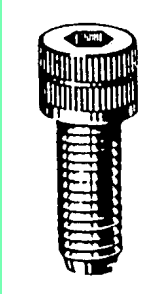
DIAMETER	PACKAGE QUANTITIES			
	100	50	25	10
M6	008-120			
M8	010-120	130-200		
M10	012-040	045-150	160-200	
M12		012-065	070-150	160-200
M14		030-055	060-130	



CAP SCREWS

METRIC SOCKET HEAD CON'T

METRIC ALLOY STEEL



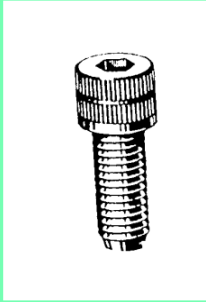
LENGTH	DIAMETER				
	16	18	20	22	24
25	M16025				
30	M16030	M18030			
35	M16035	M18035	M20035		
40	M16040	M18040	M20040	M22040	M24040
45	M16045	M18045	M20045	M22045	
50	M16050	M18050	M20050	M22050	M24050
55	M16055	M18055	M20055	M22055	M24055
60	M16060	M18060	M20060	M22060	M24060
65	M16065	M18065	M20065	M22065	M24065
70	M16070	M18070	M20070	M22070	M24070
75	M16075	M18075	M20075	M22075	M24075
80	M16080	M18080	M20080	M22080	M24080
90	M16090	M18090	M20090	M22090	M24090
95	M16095				
100	M16100	M18100	M20100	M22100	M24100
110	M16110	M18110	M20110	M22110	M24110
120	M16120	M18120	M20120	M22120	M24120
130	M16130	M18130	M20130	M22130	
140	M16140	M18140	M20140	M22140	M24140
150	M16150	M18150	M20150	M22150	M24160
160	M16160	M18160	M20160	M22160	
170			M20170		
180	M16180	M18180	M20180	M22180	
200	M16200	M18200	M20200	M22200	
220			M20220		
240			M20240		
260			M20260		
280			M20280		
300			M20300		
320			M20320		
340			M20340		

DIAMETER	PACKAGE QUANTITIES			
	25	10	5	1
M16	025 – 130	140 – 200		
M18	030 – 090	100 – 200		
M20	035 – 130	140 – 200	200 – 300	320 – 340
M22		040 – 200		
M24		050 – 100		160



CAP SCREWS

SOCKET HEAD ALLOY STEEL



LENGTH	DIAMETER				
	1/4-20	5/16-18	3/8-16	7/16-14	PKG
3/8	10037	10051			100
1/2	10038	10052	10067		100
5/8	100398	10053	10068		100
3/4	100408	10054	10069	10088	100
7/8	100418	10055	10070	10089	100
1	100428	10056	10071	10090	100
1-1/4	100438	10057	10072	10091	100
1-1/2	100448	10058	10073	10092**	100
1-3/4	100458	10059	10074	10093	100
2	100468^	10060	10075	10094	50
2-1/4	100478^	10061	10076	10095	50
2-1/2	10048^	10062	10077	10096	50
2-3/4	10049^	10063^	10078	10097	50
3	10050^	10064	10079	10098	50
3-1/4	100501*	10065^	10080	10099	50
3-1/2	100502**	10066	10081	10100	25
3-3/4	1005021***				25
4	100503	100661**	10082	10101	25
4 1/4			100821		50
4-1/2	100504***		10083		50
5	100505***	100665***	10084		50
5-1/2	100506		10085		25
6	100507***	100667***			

	1/2-13	5/8-11	3/4-10	7/8-9	PKG
3/4	10102				100
7/8	10103				100
1	10104	10123			50
1-1/4	10105	10124	10142*		50
1-1/2	10106	10125	10143*		50
1-3/4	10107	10126	10144*		50
2	10108	10127*	10145*	10160***	50
2-1/4	10109	10128*	10146*	10161***	50
2-1/2	10110	10129*	10147*	10162***	50
2-3/4	10111	10130*	10148*	10163***	50
3	10112	10131*	10149*	10164***	50
3-1/4	10113	10132	10150	10165***	25
3-1/2	10114	10133	10151	10166***	25
4	10115	10134	10152	10167***	25
4-1/2	10116	10135	10153	10168***	25
5	10117	10136	10154	10169***	25
5-1/2	10118	10137***	10155***	10170***	25
6	10119	10138***	10156***	10171***	25
6-1/2	10120	10139	10157	10172	10
7	10121	10140	10158	10173	10
8	10122	10141	10159	10174	10

^PACKAGE QUANTITY IS 100 *PACKAGE QUANTITY IS 25 **PACKAGE QUANTITY IS 50 ***PACKAGE QUANTITY IS 10

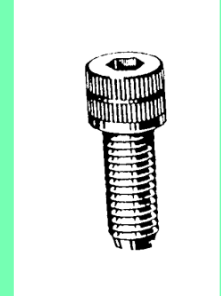


CAP SCREWS

SOCKET HEAD CON'T

ALLOY STEEL CON'T

LENGTH	DIAMETER		
	1-8	1 1/4-7	1 1/2-6
2	10175	10190	
2-1/4	10176		
2-1/2	10177		
2-3/4	10178	10191	10204
3	10179		
3-1/4	10180		
3-1/2	10181	10192	10205
4	10182	10193	10206
4-1/2	10183	10194	10207
5	10184	10195	10208
5-1/2	10185	10196	10209
6	10186	10197	10210
6-1/2	10187	10198	10211
7	10188	10199	10212
8	10189	10200	10213
9		10201	10214
10		10202	10215
12		10203	10216



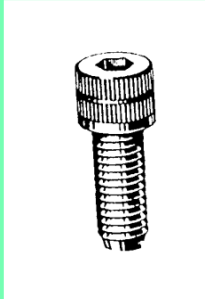
ALL PACKAGE QUANTITY IS 1



CAP SCREWS

SOCKET HEAD CON'T

ALLOY STEEL CON'T



LENGTH	DIAMETER		
	1/4-28	5/16-24	3/8-24
3/8	11037		
1/2	11038	11052	11067
5/8	11039	11053	11068
3/4	11040	11054	11069
7/8	11041	11055	11070
1	11042	11056	11071
1-1/4	11043	11057	11072
1-1/2	11044	11058	11073
1-3/4	11045	11059	11074
2	11046	11060	11075
2-1/4	11047	11061	11076
2-1/2	11048	11062	11077
2-3/4	11049	11063	11078
3	11050	11064	11079
3-1/2	110505		
4	11051	11065	11080
4-1/2	110512		
5			11082
5-1/2	110514		
6	110515		

LENGTH	DIAMETER		
	7/16-20	1/2-20	5/8-18
5/8	11088	11102	
3/4	11089	11103	
7/8	110891		
1	11090	11104	11123
1-1/4	11091	11105	11124
1-1/2	11092	11106	11125
1-3/4		11107	11126
2	11094	11108	11127
2-1/4		11109	11128
2-1/2	11096	11110	11129
3		11112	
6		11119	

DIAMETER	PACKAGE QUANTITIES			
	100	50	25	10
1/4	ALL			
5/16	3	4		
3/8	2, 5	2-1/4 - 4		
7/16	5/8, 1 - 1-1/2, 2-1/2	2	3/4, 7/8	
1/2	5/8 - 1-3/4	2 - 3	6	
5/8		2		2-1/4 - 2-1/2

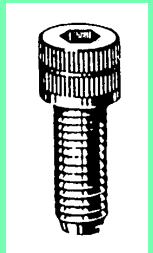


CAP SCREWS

SOCKET HEAD CON'T

STAINLESS STEEL

LENGTH	2-56	4-40	5-40	6-32	6-40
1/4		SS10001	SS10006	SS10011	SS11011
3/8	SS09902	SS10002	SS10007	SS10012	SS11012
1/2	SS09903	SS10003	SS10008	SS10013	SS11013
5/8		SS10004	SS10009	SS10014	SS11014
3/4		SS10005	SS10010	SS10015	SS11015
7/8				SS10016	
1				SS10017	
1-1/4		SS100054			



LENGTH	8-32	8-36	10-24	10-32
1/4	SS10018	SS11018		
3/8	SS10019	SS11019	SS10027	SS11027
1/2	SS10020	SS11020	SS10028	SS11028
5/8	SS10021	SS11021	SS10029	SS11029
3/4	SS10022	SS11022	SS10030	SS11030
7/8	SS10023		SS10031	SS11031
S1	SS10024	SS11024	SS10032	SS11032
1-1/4	SS10025		SS10033	SS11033
1-1/2	SS10026		SS10034	SS11034
1-3/4			SS10035	SS11035
2			SS10036	SS11036

LENGTH	1/4-20	5/16-18	3/8-16	7/16-14
3/8	SS10037	SS10051		
1/2	SS10038	SS10052	SS10067	
5/8	SS10039	SS10053	SS10068	
3/4	SS10040	SS10054	SS10069	
7/8	SS10041	SS10055	SS10070	
1	SS10042	SS10056	SS10071	SS10090
1-1/4	SS10043	SS10057	SS10072	SS10091
1-1/2	SS10044	SS10058	SS10073	SS10092
1-3/4	SS10045	SS10059	SS10074	SS10093
2	SS10046	SS10060	SS10075	SS10094
2-1/4	SS10047	SS10061	SS10076	SS10095
2-1/2	SS10048	SS10062	SS10077	SS10096
2-3/4	SS10049	SS10063	SS10078	
3	SS10050	SS10064	SS10079	SS10098
3-1/4		SS10065		
3-1/2		SS10066	SS10081	
4	SS100503			

DIAMETER	PACKAGE			
	100	50	25	10
2-56 THRU 10-32	ALL			
1/4	TO 2-3/4	3		3-1/4-4
5/16	TO 2-3/4	3 TO 3-1/2		
3/8	TO 2-1/4	2-1/2 TO 3	3-1/2	
7/16		ALL		



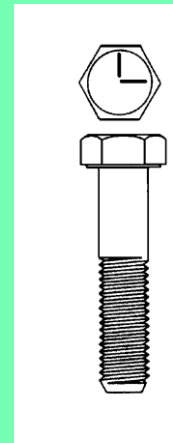
CAP SCREWS

STAINLESS STEEL HEX HEAD

LENGTH	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
1/2	05500	05518	05536		
3/4	05501	05519	05537	05554	05565
1	05502	05520	05538	05555	05566
1-1/4	05504	05522	05540	05556	05568
1-1/2	05505	05523	05541	05557	05569
1-3/4	05506	05524	05542	05558	05570
2	05507	05525	05543	05559	05571
2-1/4	05508	05526	05544		05572
2-1/2	05509	05527	05545	05561	05573
2-3/4	05510	05528	05546		05574
3	05511	05529	05547	05562	05575
3-1/2	05512	05530	05548	05563	05576
4	05513	05531	05549	05564	05577
4-1/2	05514	05532	05550		05578
5	05515	05533	05551		05579
5-1/2	05516	05534	05552		05580
6	05517	05535	05553		05581

LENGTH	PACKAGE QUANTITIES				DIAMETER
	1/4	5/16	3/8	7/16	1/2
1/2 - 1	100	100	100	100	100
1-1/4 - 1-1/2	100	100	100	50	50
1-3/4 - 2-1/2	100	100	50	50	50
2-3/4 - 3-1/2	50	50	50	50	25
4 - 6	50	50	25	25	25

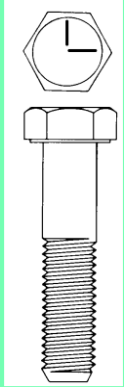
LENGTH	5/8-11	3/4-10	7/8-9	1-8
1	05583	05598		
1-1/4	05584	05599		
1-1/2	05585	05600	05613	
1-3/4	05586	05601	05614	
2	05587	05602	05615	05628
2-1/4	05588	05603	05616	
2-1/2	05589	05604	05617	05629
2-3/4	05590	05605	05618	
3	05591	05606	05619	05630
3-1/2	05592	05607	05620	05631
4	05593	05608	05621	05632
4-1/2	05594	05609	05622	05633
5	05595	05610	05623	05634
5-1/2	05596	05611	05624	05635
6	05597	05612	05625	05636
7				05638



LENGTH	PACKAGE QUANTITIES				DIAMETER
	5/8	3/4	7/8	1	
1 - 1-1/2	50	25	1		
1-3/4 - 3	25	25	1	1	
3-1/2 - 4-1/2	25	20	ALL	ALL	
5 - 7	10	10	1	1	



CAP SCREWS



STAINLESS STEEL HEX HEAD CON'T

LENGTH	FINE THREADS DIAMETER AND PITCH				
	1/4-28	5/16-24	3/8-24	1/2-20	5/8-18
1/2	05651	05665			
5/8	05652				
3/4	05653	05667	05679	05689	
1	05655	05669	05681	05690	
1 1/4	05657	05671	05682	05691	05699
1 1/2	05658	05672	05683	05692	05700
1 3/4	05659	05673	05684	05693	05701
2	05660	05674	05685	05694	05702
2 1/4	05661	05675	05686	05695	
2 1/2	05662	05676	05687	05696	05703
3	05663	05677	05688	05697	
3 1/2				05698	
4	05664				

LENGTH	PACKAGE QUANTITIES DIAMETER				
	1/4	5/16	3/8	1/2	5/8
1/2 - 1	100	100	100	100	
1 1/8 - 1 1/2	100	100	100	50	50
1 3/4 - 2 1/2	100	100	50	50	25
3 - 4	50	50	50	50 & 25	



CHAIN ACCESSORIES

CHAIN ACCESSORIES

LINKAGE ROD CLIPS

ROD SIZE		PART NUMBER		PART NUMBER
1/8	RH	60070	LH	60074
5/32	RH	60071	LH	60075
3/16	RH	60072	LH	60076
1/4	RH	60073	LH	60077

PACKAGE IS 50, RH – RIGHT HAND, LH – LEFT HAND



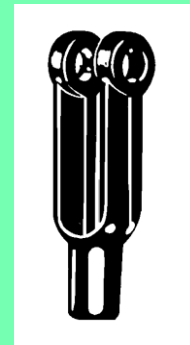
LINKAGE ROD CLIP ASSORTMENT

QUANTITY	PART NUMBER	PACKAGE
5 PIECES R 5 PIECES L	60078	1

ADJUSTABLE YOKE ENDS

SIZE	LENGTH A	LENGTH B	LENGTH C	PART NUMBER
1/4-28	2	1-1/4	9/32	60090
5/16-24	2-1/4	1-7/16	11/32	60091*
3/8-24	2-1/2	1-5/8	7/16	60092
7/16-20	2-7/8	1-7/8	1/2	60093
1/2-20	3	1-7/8	9/16	60094
5/8-18	4-15/16	1-1/16	1-1/16	60095**

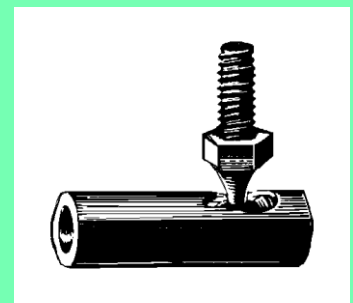
PACKAGE IS 5, *PACKAGE IS 10, **PACKAGE IS 1



BALL JOINT ROD ENDS

SIZE	PART NUMBER
10-32	60540
1/4-28	60541
5/16-24	60542
3/8-24	60543
1/2-20	60544

PACKAGE IS 1





CHAIN ACCESSORIES

GRADE 43 CLEVIS GRAB AND SLIP HOOKS

SIZE	WLL	GRAB HOOK PART NUMBER	SLIP HOOK PART NUMBER
1/4	2600	60200	60208
5/16	4000	60201	60209
3/8	5400	60203	60210
7/16	7200	60204	60211
1/2	9200	60205	60212
5/8	11500	60206	60213
3/4	16200	60207	

PACKAGE IS 1

GRADE 43 EYE TYPE GRAB AND SLIP HOOKS



SIZE	WLL	GRAB HOOK PART NUMBER	SLIP HOOK PART NUMBER
1/4	3250	60220	60226
5/16	5000	60221	60227
3/8	6600	60222	60228
7/16	8750	60223	60229
1/2	11250	60224	60230
5/8	16500	60225	

PACKAGE IS 1

GRADE 70 CLEVIS GRAB AND SLIP HOOKS



SIZE	WLL	GRAB HOOK PART NUMBER	SLIP HOOK PART NUMBER
1/4	3250	61200	61208
5/16	5000	61201	61209
3/8	6600	61203	61210
7/16	8750	61204	61211
1/2	11250	61205	61212
5/8	16500	61206	61213

PACKAGE IS 1

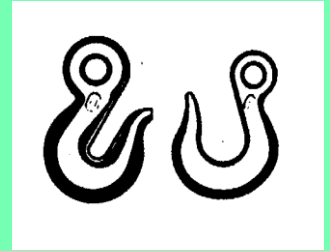
***WLL-WORKING LOAD LIMIT**



CHAIN ACCESSORIES

GRADE 70 EYE TYPE GRAB & SLIP HOOKS

SIZE	WLL	GRAB HOOK PART NUMBER	SLIP HOOK PART NUMBER
1/4	3250	61220	61226
5/16	5000	61221	61227
3/8	6600	61222	61228
7/16	8750	61223	61229
1/2	11250	61224	61230
5/8	16500	61225	



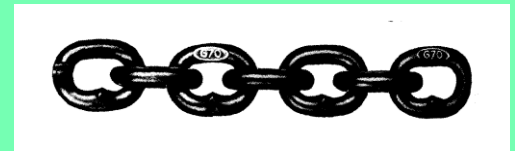
PACKAGE IS 1

WLL-WORKING LOAD LIMIT

GRADE 70 CHAIN

SIZE	PART NUMBER
5/16	61191
3/8	61192

**EMBOSSED: G70 (GOLD FINISH)
SOLD BY THE FOOT**



GRADE 80 CHAIN

SIZE	PART NUMBER
9/32	61193
3/8	61194

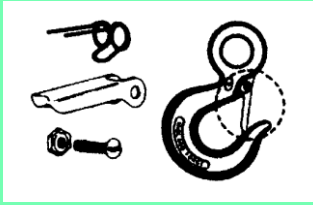
COLD SHUTS

SIZE	PART NUMBER	PACKAGE
3/16	60400	25
1/4	60401	25
5/16	60402	25
3/8	60403	25
7/16	604031	10
1/2	60404	25
5/8	60405	10
3/4	60406	10



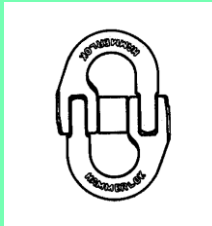


CHAIN ACCESSORIES



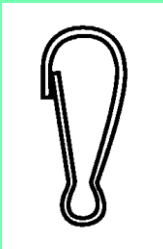
SAFETY LATCH HOOKS

HOOK SIZE	PART NUMBER	PACKAGE
3/8	61333	1
1/2	61334	1



DRAGLINK (HAMMERLOK)

SIZE	PART NUMBER	PACKAGE
9/32	60435	1
3/8	60436	1
1/2	60437	1
5/8	60438	1



SAFETY SNAP HOOKS

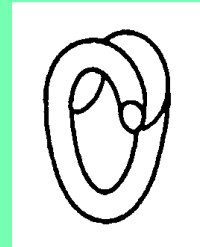
SIZE	PART NUMBER
1/4	R245014
5/16	R2450516
3/8	R245038



CHAIN ACCESSORIES

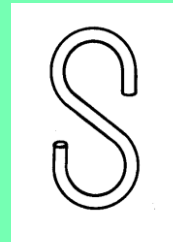
LAP LINKS

SIZE	PART NUMBER	PACKAGE
3/16 X 1	60410	25
1/4 X 1-1/2	60411	25
1/4 X 2	60412	25
5/16 X 1-1/2	60413	25
5/16 X 2	60414	25
3/8 X 1-5/8	60415	25
3/8 X 2	60416	25
1/2 X 2-1/2	60417	10



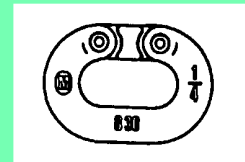
S-HOOKS

SIZE	PART NUMBER	PACKAGE
S-1 .080 X 1-1/16	60420	25
S-8 .162 X 1-7/16	60421	25
S-9 .148 X 2	60422	25
S-10 .188 X 2-7/8	60423	25
S-11 .250 X 2-1/2	60424	25
S-12 .312 X 2-5/8	60425	25
S-14 .375 X 3-1/4	60426	25



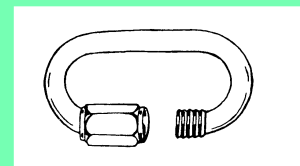
CONNECTING LINKS

SIZE	PART NUMBER	PACKAGE
3/16	60440	20
1/4	60441	10
5/16	60442	10
3/8	60443	10
7/16	60444	10
1/2	60445	10
5/8	60446	10
3/4	60447	5



QUICK LINKS

SIZE	OAL	GAP	PART NUMBER
1/8	1-3/8	3/16	60314
3/16	1-7/8	1/4	60315
1/4	2-1/4	9/32	60316
5/16	2-15/16	3/8	60317
3/8	3-1/8	7/16	60318
1/2	4-1/8	19/32	60319



PACKAGE IS 1



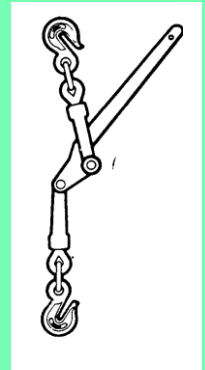
CHAIN ACCESSORIES

LOAD BINDERS

LEVER LOAD BINDERS

CHAIN SIZE	PART NUMBER	WLL	MIN. ULT. BREAKING STRENGTH
1/4 G43	60289	2600	7800
5/16 G70	60290	5400	19000
3/8 G43	60290	5400	19000
3/8 G70	60291	9200	28000
1/2 G43	60291	9200	28000

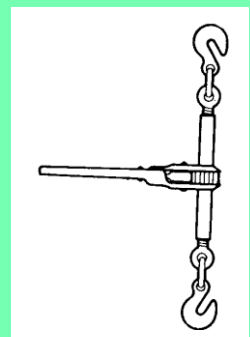
PACKAGE QUANTITY IS 1



RATCHET LOAD BINDERS

CHAIN SIZE	PART NUMBER	WLL	MIN. ULT. BREAKING STRENGTH
1/4 G43	602920	2600	7800
5/16 G70	60292	5400	19000
3/8 G43	60292	5400	19000
3/8 G70	60293	9200	19000
1/2 G43	60293	9200	19000

PACKAGE QUANTITY IS 1





CHAIN ACCESSORIES

ROLLER

ANSI STANDARD ROLLER CHAIN

SIZE SGL STRAND	CHAIN NUMBER	CONNECT LINK	ROLLER LINK	OFF SET LINK
# 25	79075	790751	790752	790753
# 35	79076	790761	790762	790763
# 41	79077	790771	790772	790773
# 40	79078	790781	790782	790783
# 50	79079	790791	790792	790793
# 60	79080	790801	790802	790803
# 80	79081	790811	790812	790813
# 100	79082	790821	790822	790823
# 120	79083	790831	790832	790833
# 140	79084	790841	790842	790843

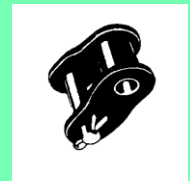
CHAIN IS PACKED 10FT. NO BROKEN PACKAGES. CONNECTING LINKS, ROLLER LINKS, OFF SET LINKS ARE PACKED 10 PER BOX EXCEPT 120 AND 140 WHICH ARE 1/BOX. BROKEN PACKAGES ARE OK



HEAVY DUTY ROLLER CHAIN

SIZE SGL STRAND	CHAIN NUMBER	CONNECT LINK	ROLLER LINK	OFF SET LINK
# 60H	79088	790881	790882	790883
# 80H	79089	790891	790892	790893
# 100H	79090	790901	790902	790903
# 120H	79091	790911		790913
# 140H	79092	790921		790923

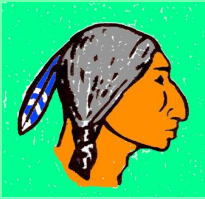
CHAIN IS 10FT PER BOX, NO BROKEN PACKAGES.
PARTS ARE 1 PER BOX



DOUBLE STRAND ROLLER CHAIN

SIZE DBL STRAND	CHAIN NUMBER	CONNECT NUMBER	OFF SET LINK
# 40-2	79093	790931	790933
# 50-2	79094	790941	790943
# 60-2	79095	790951	790953
# 80-2	79096	790961	790963
# 100-2	79097	790971	790973
# 120-2	79098	790981	790983

CHAIN 10FT PER BOX, PARTS 1 PER BOX



CHEMICALS

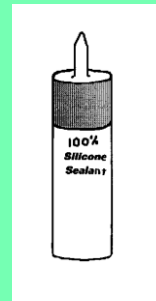
CHEMICALS

SILICONE SEALERS AND GASKET

100% RTV SILICONE IS A 1 COMPONENT SEALANT WHICH CURES AT ROOM TEMPERATURE TO A STRONG, DURABLE, RESILIENT RUBBER. IT CLINGS TO MOST CLEAN, NON-OILY SURFACES. TEMPERATURE RANGE IS -85°F TO +500°F EXCEPT FOR HIGH TEMPERATURE RED, -75°F TO +650°F. IT MEETS USDA, FDA SPEC'S FOR USE IN MEAT AND POULTRY PLANTS. ALTHOUGH THE PRODUCTS LISTED HERE ALL RELEASE ACETIC ACID DURING CURE, OTHER NEUTRAL CURE ITEMS ARE AVAILABLE AS SPECIAL ORDER

CAULK TUBE 10.3OZ

COLOR	PART NUMBER
CLEAR	70060
BLACK	70061
WHITE	70062
BLUE	70065
RED	70066



2.8OZ RTV SILICONE RUBBER ADHESIVE/SEALANT TUBE

COLOR	PART NUMBER
WHITE	70069
CLEAR	70070
BLUE	70071
RED	70072



8OZ RTV SILICONE RUBBER ADHESIVE/SEALANT AEROSOL CAN

COLOR	PART NUMBER
CLEAR	70076
BLUE (GASKET)	70077
RED (HI-TEMP)	70078
BLACK (GASKET)	70079

PACKAGE QUANTITY IS ONE



CHEMICALS

NICKEL BASE ANTI-SEIZE SEALANT

2600°F HIGH TEMPERATURE ANTI-SEIZE LUBRICANT.
FOR USE WHERE COPPER, LEAD, MOLY-DISULFIDE, CHLORIDES
AND FLUORIDES CANNOT BE TOLERATED. PREVENTS RUST,
SEIZING, WELDING, OR GALLING

70088 16 OZ. BRUSH TOP CAN
70089 8 OZ. BRUSH TOP CAN



COPPER BASE ANTI-SEIZE SEALANT

1800°F HIGH TEMPERATURE ANTI SEIZE AND LUBRICATING
COMPOUND. PREVENTS RUST AND CORROSION FOR
MARINE AND MAINTENANCE APPLICATION

70090 10 OZ. BRUSH TOP CAN



TEFLON THREAD SEALER

SOFT SET-GRIT FREE. PREVENTS CORROSION AND
SEIZING OF THREADS

70080 2 OZ. TUBE
70081 16 OZ. CAN

PREMIUM RED GREASE

AN NLGI GRADE 2 LITHIUM COMPLEX PREMIUM GREASE.
PROVIDES SUPERIOR RUST PROTECTION AND OXIDATION
RESISTANCE. DROP POINT TEMPERATURE OF UP TO 500°F
CAN PROVIDE LUBRICATION CONTINUOUSLY AT 300°F

70046 14 OZ. CARTRIDGE
70048 14 OZ. CAN
70049 35 LB. PAIL



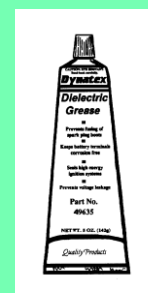
WHITE LITHIUM GREASE

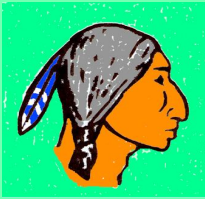
GENERAL PURPOSE LUBRICANT PROTECTS AGAINST RUST
AND CORROSION. MAKES CONTACT SURFACES FRICTION FREE

70047 16 OZ TUB
70045 14OZ SUPER WHITE "MP" GREASE
70037 5 OZ TUBE DIELECTRIC GREASE



70038 .33OZ TUBE DIELECTRIC GREASE
70039 10.5OZ CAN DIELECTRIC GREASE





CHEMICALS

BLACK BRUSH ON ELECTRIC TAPE
4FL OZ CAN D49412

1OZ DUAL PACK 4 MINUTE EPOXY
70054

PAINT MARKER

YELLOW PAINT MARKER	70161
WHITE PAINT MARKER	70162
BLACK PAINT MARKER	70163
RED PAINT MARKER	70164
SILVER PAINT MARKER	70166
BLUE PAINT MARKER	70167



CHEMICALS

CHEMICALS

ZINC-IT RUST FIGHTER 16 OZ CAN, 13 OZ NET WT. **70020**
FUEL THERAPY DIESEL ANTI-GEL 30FL OZ **70022**
BRAVE QD CONTACT CLEANER 16 OZ ,11 OZ NET WT. **70023**
CHAIN AND WIRE ROPE LUBE 16 OZ/ 10 OZ NET WT. **70040**
FOOD GRADE SILICONE SPRAY 16 OZ/10 OZ NET WT. **70041**
CUTTING OIL 16 OZ/12 OZ NET WT. **70043**

CONTACT CLEANER CLEANS LIGHT CONTAMINANTS SUCH AS DUST, MOISTURE AND LIGHT OIL LEAVING NO RESIDUE. IT IS NON-STAINING ,NON-CORROSIVE, NON-FLAMMABLE AND HARMLESS TO MOST PLASTICS.

QD CONTACT CLEANER IS A PETROLEUM DISTILLATE/ALCOHOL-BASED CLEANER. SAFE ON PLASTICS IT ALSO IS IDEAL WHERE LOWER FLASHPOINT SOLVENTS CAN BE USED. LEAVES NO RESIDUE.

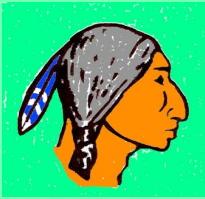
FOOD GRADE SILICONE IS A DRY FILM LUBRICANT THAT ELIMINATES STICKING WHILE PROTECTING METAL, PLASTIC AND RUBBER SURFACES. IT MEETS FDA REGULATION CFR 21-178.3570 FOR INCIDENTAL FOOD CONTACT.

CHAIN AND WIRE ROPE LUBRICANT EXTENDS THE WORKING LIFE OF ROLLER CHAIN AND WIRE ROPE. IT REDUCES WEAR CAUSED BY FRICTION AND CORROSION. IT RESISTS WATER WASH OFF AND HIGH TEMPERATURE SLING OFF.

THESE PRODUCTS ARE AUTHORIZED FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS

CUTTING OIL IS A THREAD CUTTING LUBRICANT FOR USE ON ALL TYPES OF METALS INCLUDING BRASS, COPPER AND ALUMINUM. IT CLINGS EVEN TO VERTICAL SURFACES REDUCING HEAT AND FRICTION AND INCREASING TOOL LIFE. IT IS LOW ODOR BECAUSE THERE IS NO SULFUR.

ALL THREE OF THESE PRODUCTS ARE AUTHORIZED FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS.



CHEMICALS

CLEANERS & LUBRICANTS

GLASS CLEANER

70091

GLASS AND MIRROR POLISH AND CLEANER WILL CLEAN AND BRIGHTEN TILE, WINDSHIELDS, MIRRORS, PORCELAIN, WINDOWS, AND SHOWCASES. CONTAINS AMMONIA. CASE QUANTITY IS 12

PENETRATING LUBRICANT

70092

PENETRATING OIL FREES RUSTED, CORRODED PARTS AND STOPS SQUEAKS. THE LIGHT FLUID PENETRATES QUICKLY AND IS THE VEHICLE FOR LUBRICATING AGENTS. CASE QUANTITY IS 12

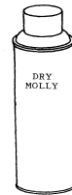


**TRIGGER SPRAYER,STD
70124**

DRY MOLLY

70093

FAST DRYING OIL FREE NON-FLAMMABLE DRY MOLLY IS AN ANTI-SEIZE LUBRICANT CONTAINING MICRON-SIZED MOLYBDENUM DISULFIDE. IT IS SUITABLE FOR TEMPERATURES FROM 110° TO 1050°F AND PRESSURES TO 100,000 PSI. INERT TO WATER, OIL, ALKALIES, AND MANY ACIDS. IT WILL NOT ATTRACT DUST.



SAFETY SOLVENT

70096

A HEAVY DUTY DEGREASER AND BRAKE PARTS CLEANER THAT LEAVES NO RESIDUE. IT IS AUTHORIZED BY USDA FOR USE IN MEAT AND POULTRY PLANTS. HIGH DIELECTRIC STRENGTH COMBINED WITH A NON-FLAMMABLE SPRAY MAKES THIS THE PERFECT PRODUCT FOR MOTORS, GENERATORS, AND RELAYS. CASE QUANTITY IS 12

**TRIGGER SPRAYER
CHEMICAL RESISTANT
70125**

INDUSTRIAL STRENGTH CLEANER

QUART BOTTLE

70097

5 GAL

70098

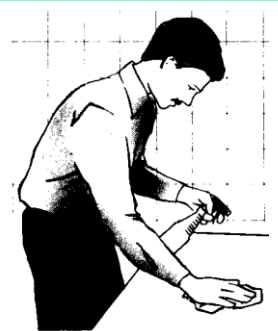
DISPENSER (PLASTIC DRUM PUMP FOR 70098) **70114**

CONVENIENT, READY TO USE, ALL PURPOSE CLEANER DEGREASER DESIGNED TO WORK IN HEAVY OILY SOILS AUTHORIZED FOR USE IN MEAT AND POULTRY PLANTS. CONTAINS NO AMMONIA OR PETROLEUM SOLVENTS. REMOVES DIRT, GREASE, OILY FILMS, FINGER PRINTS, INK PENCIL MARKS, SMOKE. USE ON PAINTED SURFACES, WALLS, FLOORS, CABINETS, FIXTURES, COUNTERTOPS, VINYL AND FIBERGLASS.

NAM#1 LIME REMOVER GALLON

70119

USE ANYWHERE THERE IS IRON, RUST, OXIDATION, HARD WATER STAINS, SOAP SCUM. EXCELLENT FOR USE ON STAINLESS, CHROME, ALUMINUM, COPPER, BRASS, CERAMIC, GLASS, PLASTIC, PORCELAIN. CONTAINS PHOSPHORIC ACID. USDA AUTHORIZED-A3.





CHEMICALS

CLEANERS & LUBRICANTS CON'T

ANTI-SEIZE

70179 AEROSOL SPRAY PACK

70183 ANTI-SEIZE 12 OZ

PREVENTS GALLING, PITTING, SEIZING, OF THREADED, KEYED, SPLINED PRESS FITTED ASSEMBLIES. PROTECTS AT SUSTAINED TEMPERATURES OF 2100°F. DOES NOT CONTAIN 111 TRICHLORETHANE.



DRI FILM GRAPHITE LUBRICANT

70180 NET WT. 16 OZ

USE ON DIES, JIGS, DRILLS IN STORAGE FOR POSITIVE PROTECTION AGAINST CORROSION AND RUST. EXCELLENT FOR HEAT RISERS, ROLLER CHAIN, DOOR LOCKS, HINGES, PINS AND BUSHINGS, SPEEDOMETER CABLES, CLUTCH CABLES, BOAT CABLES. IT IS AN IDEAL EXTREME PRESSURE AND HIGH TEMPERATURE LUBRICANT. IT SPRAYS ON WET AND DRIES IN A MATTER OF MINUTES FORMING A DRY FILM THAT LUBRICATES AND PROTECTS.



LIGHTENING BOLT

70104 NET WT. 15 OZ

SUPER PENETRATING NUT LOOSENER. REDUCES FRICTION AND WEAR OVER A BROAD TEMPERATURE RANGE. LEAVES A LONG LASTING LUBRICATING FILM TO DEFEND AGAINST RUST & CORROSION.



GEL LUBE

70103 NET WT. 13 OZ

A HIGH TACK, CLEAR LUBRICATING GEL WHICH PROVIDES LUBRICATION AT TEMPERATURES FROM -30°F TO +500°F. PENETRATES AS AN OIL TO LUBRICATION POINT, THEN FORMS INTO A TACKY GREASE-LIKE GEL.

EZ LUBE WHITE FOOD GRADE GREASE

70036 NET WT. 10 OZ

VINYL DRESSING

70118 QUART

PROTECTS AND BEAUTIFIES VINYL, RUBBER, LEATHER, PLASTIC, ACRYLIC, FIBERGLASS AND WOOD. RETURNS DULL WORN SURFACES TO THEIR ORIGINAL SHINE. RESTORES ALL THE SURFACES LISTED ABOVE THAT HAVE BEEN DAMAGED OR MADE TO LOOK OLD FROM EXPOSURE TO OZONE, ULTRAVIOLET RAYS AND OXIDATION. PROTECTS SURFACES FROM FUTURE WEAR AND DETERIORATION.



CHEMICALS

BRAVE FLEX-COAT

70105 NET WT. 14 OZ

RUBBERIZED COATING. PROTECTS METAL SURFACES AGAINST CORROSION. PROVIDES A FLEXIBLE, WATER –TIGHT FILM. REDUCES UNWANTED SOUND AND VIBRATION. EFFECTIVE OVER A WIDE RANGE OF TEMPERATURES



BRAVE EXTREME SILICONE SPRAY

70108 NET WT 11 OZ

PROZONE MECHANICS SPRAY

70107 NET WT. 12 OZ

NON-CHLORINATED. NON FLAMMABLE SPRAY. PENETRATES-CLEANS, FREES FROZEN FITTINGS. NEVER DRIES, LUBRICATES, DISPLACES WATER

BATTERY TERMINAL CLEANER

70094 NET WT. 18 OZ

EXTENDS BATTERY LIFE. NON-FLAMMABLE. INCREASES POWER OUTPUT. INCLUDES COLOR PERFORMANCE INDICATOR.

BATTERY TERMINAL PROTECTOR

70102 NET WT. 14 OZ

NON CHLORINATED. PROVIDES AN AIRTIGHT WATERPROOF SEAL. CURTAILS BATTERY LEAKAGE. EXTENDS BATTERY LIFE.

CONTACT CLEANER

NON-FLAMMABLE

700230 NET WT. 13 OZ

70024 NET WT. 10 OZ

INSTAZORB

70195 1.5 CU FT

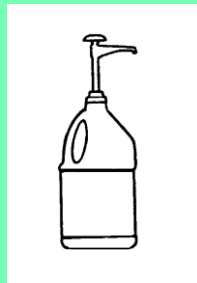
16 X 20 GRAY SORBENT PAD

70199



CHEMICALS

HAND CLEANERS



BEFORE HAND CLEANER & PROTECTOR

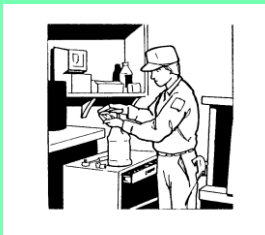
70116 GALLON

THOROUGH CLEANING, FAST-GENTLE BUT EFFECTIVE. THICK ENOUGH TO COAT THE HANDS, ARMS, FOR COMPLETE CLEANING, PENETRATION. CLEANS, SOFTENS, SMOOTHS, CONDITIONS, PROTECTS. REMOVES OIL, GREASE, INK, GRIME, TAR, PAINT. CONTAINS NO SKIN DRYING SOLVENTS, AMMONIA, ABRASIVES.

LOSHUN HAND CLEANER

70115 GALLON

DISOLVES OIL, GREASE, DIRT, GRIME, PAINT, INK. WORKS FAST BY LIQUIFYING, EMULSIFYING, AND FLOATING AWAY ALL DIRT, SOIL. PROTECTS BECAUSE IT CONTAINS, LANOLIN AND GLYCERIN WHICH WORKS AS SKIN CONDITIONERS AND SOFTENERS. HELPS SKIN RETAIN NATURAL OIL, SMOOTHNESS WITHOUT A GREASY FEELING. WATERLESS WHEN YOU WANT IT TO BE. BUT RINSE OFF WITH WATER IF YOU WANT TO.



ORANGE CRUNCH HAND CLEANER

70117 GALLON

CONTAINS BOTH ORANGE D-LIMONENE AND A HEAVY DUTY VOLCANIC PUMICE SCRUBBER TO AID IN REMOVAL OF STUBBORN SOILS. DISOLVES OIL, GREASE, DIRT GRIME, INK. CONTAINS NO PETROLEUM SOLVENTS, MILD ON HANDS. MAY BE USED WITH OR WITHOUT WATER.

NATURAL CITRUS DEGREASER & DEODORIZER

70109

GALLON GRUFF HAND CLEANER

70099

PROFERRED HAND & TOOL WIPES

82 WIPES, 9" X 12" CANISTER

BBT99001

CLAMPS & CLIPS

CABLE, TUBE AND LOOM

STICK ON LOOM CLIPS

SIZE	PART NUMBER	PACKAGE
1/4	52405	20
1/2	52406	20
3/4	52407	20



LIGHT DUTY METAL LOOM CLIPS

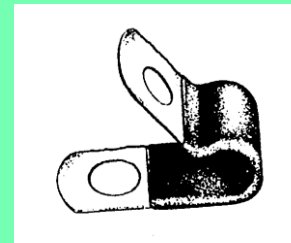
SIZE	PART NUMBER	PACKAGE
1/4	52408	25
5/16	52409	25
3/8	52410	25
1/2	52411	25
5/8	52412	25
3/4	52413	25
1	52414	25



HEAVY DUTY METAL LOOM CLIPS

3/8 BOLT HOLE-3/4 WIDE

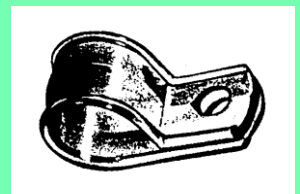
SIZE	PART NUMBER	PACKAGE
1/4	52408HD	25
5/16	52409HD	25
3/8	52410HD	25
1/2	52411HD	25
5/8	52412HD	25
3/4	52413HD	25
7/8	524131HD	25
1	52414HD	25
1-1/4	52415HD	10



NYLON LOOM CLIPS

13/64 HOLE

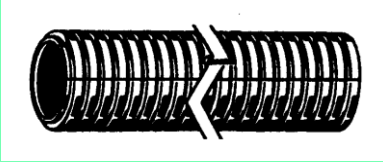
SIZE	WIDTH	WHITE PART NUMBER	BLACK PART NUMBER
1/8	3/8	524141	524141B
3/16	3/8	524142	524142B
1/4	3/8	52415	52415B
5/16	3/8	52416	52416B
3/8	3/8	52417	52417B
7/16	3/8	524171	524171B
1/2	3/8	52418	52418B
9/16	1/2	524181	524181B
5/8	1/2	524182	524182B
3/4	1/2	52419	52419B
7/8	1/2	524191	
1	1/2	52420	52420B



PACKAGE IS 25

CABLE, TUBE AND LOOM

BLACK NYLON SPLIT CONVOLUTED LOOM



I.D.	O.D.	PART NUMBER
1/4	3/8	52370
5/16	1/2	52371
3/8	9/16	52372
1/2	11/16	52373
3/4	15/16	52374
1"	1-1/8	52375

CAN WITHSTAND MAXIMUM TEMPERATURE OF 345°F.
PACKAGE IS 10 FOOT OR 50 FT LENGTHS (BULK) WITH
THE EXCEPTION OF 1" WHICH IS IN 25 FOOT LENGTHS.

BLACK SPIRAL WRAP LOOM

ABRASION RESISTANT SPIRAL WRAP TUBING IS USED AS A WIRE
HARNESS COVERING. WRAP AROUND YOUR HARNESS AND ANY
WIRES WHICH BREAK OUT CAN EASILY EXIT THROUGH THE
SPIRAL SLIT. RATED FOR UP TO 122°F. (50°C).



SIZE	WALL THICKNESS	PART NUMBER
1/4	0.045	52381
3/8	0.052	52383
1/2	0.062	52385
3/4	0.065	52387
1"	0.095	52389

PACKAGE IS 1 FOOT

2-TUBE CUSHIONED CABLE CLAMPS

HEAVY DUTY 2 TUBE BLACK CUSHIONED CABLE CLAMPS USED
FOR HOLDING 2 WIRE ASSEMBLIES OR TUBING. MOUNTING HOLE
IS .406 DIAMETER



SIZE	WIDTH	PART NUMBER	PACKAGE
1/2	3/4	W25160	10
3/4	3/4	W25161	10
1	3/4	W25162	10
1-1/4	3/4	W25163	10

HOSE CLAMPS

STAINLESS STEEL BAND AND HOUSING, PLATED HEX HEAD CAPSCREW



SIZE	PART NUMBER		SIZE	PART NUMBER
4	70214		40	70226
6M	70215		44	702261
6	70216		48	70227
8	70217		56	70228
8M	70217M		64	70229
10	70218		72	70231
12	70219		80	70232
16	70220		88	70233
20	70221		96	70234
24	70222		104	70235
28	70223		116	70236
32	70224		128	70237
36	70225			

ALL STAINLESS STEEL

SIZE	PART NUMBER		SIZE	PART NUMBER
4	70330		40	70342
5	70331		48	70343
6	70332		56	70344
8	70333		64	70345
10	70334		72	70346
12	70335		80	70347
16	70336		88	70348
20	70337		96	70349
24	70338		104	70350
28	70339		116	70351
32	70340			
36	70341			

ALL PACKAGE QUANTITIES ARE 10

ALL CLAMPS ARE MANUFACTURED TO MEET OR EXCEED ALL
PLUMBING, INDUSTRIAL, OR MILITARY SPECIFICATIONS.

HOSE CLAMPS CON'T

SHIELDED/LINED HOSE CLAMPS

PROVIDES MAXIMUM PROTECTION FOR ALL SOFT HOSES WHILE
ENSURING A STRONG POSITIVE SEAL



SIZE	PART NUMBER
#6	70267
#8	70268
#10	70269
#12	70270
#16	70271
#20	70272
#24	70273
#28	70274
#32	70275
#36	70276
#40	70277
#44	702772
#48	70278
#52	70280
#56	70282
#60	70284
#64	70286

HOSE CLAMP DIMENSION

SIZE	HOSE I.D.	CLAMP DIA MINIMUM	CLAMP DIA MAXIMUM
4	3/16 TO 5/16	7/32	5/8
6M		1/4	25/32
6	3/8 TO 1/2	7/16	25/32
8	3/8 TO 5/8	1/2	29/32
10	3/8 TO 5/8	9/16	1-1/16
12	5/8 TO 3/4	11/16	1-1/4
16	3/4 TO 1	13/16	1-1/2
20	1 TO 1-1/4	13/16	1-3/4
24	1-1/4 TO 1-1/2	1-1/16	2
28	1-1/4 TO 1-3/4	1-5/16	2-1/4
32	1-1/2 TO 2	1-9/16	2-1/2
36	1-3/4 TO 2-1/4	1-13/16	2-3/4
40	2 TO 2-1/2	2-1/16	3
48	2-1/2 TO 3	2-9/16	3-1/2
56	3-1/4 TO 3-1/2	3-1/16	4
64	3-1/2 TO 4	3-9/16	4-1/2
72		3-11/16	5
80		4-3/16	5-1/2
88		4-11/16	6
96		5-3/16	6-1/2
104		5-11/16	7
116		6-7/16	7-3/4
128		7-1/2	8-1/2

WIRE ROPE CLIPS

FORGED

SIZE	PART NUMBER	PACKAGE
1/8	60298	1
3/16	60299	
1/4	60300	
5/16	60301	1
3/8	60302	
1/2	60303	
5/8	60304	1
3/4	60305	
7/8	60306	
1	60307	1
1 1/8	60308	

MALLEABLE

SIZE	PART NUMBER	PACKAGE
1/16	61300	25
1/8	61301	25
3/16	61302	25
1/4	61303	25
5/16	61304	25
3/8	61305	25
7/16	61306	10
1/2	61307	10
5/8	61308	10

WIRE ROPE THIMBLES

SIZE	PART NUMBER	PACKAGE
1/8	61315	25
3/16	61316	25
1/4	61317	25
5/16	61318	25
3/8	61319	25
1/2	61320	25
5/8	61321	10
3/4	61322	10
7/8	61323	1
1	61324	1

WIRE ROPE

SIZE	DESCRIPTION	PART NUMBER	PACKAGE
1/16	GALV WIRE ROPE	61286	250 FT
1/16	GALV WIRE ROPE	61287	1 FT
3/32	GALV WIRE ROPE	61288	250 FT
3/32	GALV WIRE ROPE	61289	1 FT
1/8	GALV WIRE ROPE	61290	250 FT
1/8	GALV WIRE ROPE	61291	1 FT
3/16	GALV WIRE ROPE	61292	250 FT
3/16	GALV WIRE ROPE	61293	1 FT
1/4	GALV WIRE ROPE	61294	250 FT
1/4	GALV WIRE ROPE	61295	1 FT
1/4	VINYL COATED	612941	250 FT
1/4	VINYL COATED	612942	1 FT
3/8	GALV WIRE ROPE	61296	250 FT
3/8	GALV WIRE ROPE	61297	1 FT
1/2	GALV WIRE ROPE	61298	250 FT
1/2	GALV WIRE ROPE	61299	1 FT



COUPLINGS

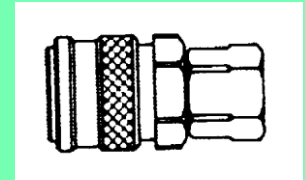
COUPLINGS

QUICK

INDUSTRIAL INTERCHANGE

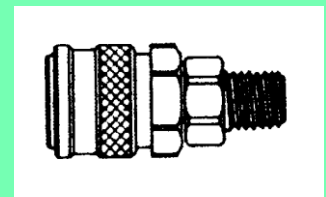
FEMALE PIPE COUPLER

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69000
1/4 BODY-3/8 FEMALE PIPE	69000A
3/8 BODY-1/4 FEMALE PIPE	69001A
3/8 BODY-3/8 FEMALE PIPE	69001
1/2 BODY-1/2 FEMALE PIPE	69002



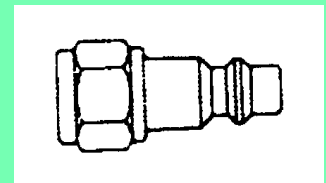
MALE PIPE COUPLER

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 MALE PIPE	69009
3/8 BODY-3/8 MALE PIPE	69010
1/2 BODY-1/2 MALE PIPE	69011



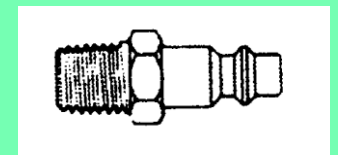
FEMALE PIPE NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69003
3/8 BODY-1/4 FEMALE PIPE	69004A
1/2 BODY-1/2 FEMALE PIPE	69005



MALE PIPE NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 MALE PIPE	69006
3/8 BODY-1/4 MALE PIPE	69007A
1/2 BODY-1/4 MALE PIPE	69008A
1/2 BODY-3/8 MALE PIPE	69008B
1/2 BODY-1/2 MALE PIPE	69008



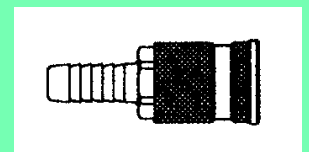
INDUSTRIAL NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/4HB NIPPLE	68900
1/4 BODY-5/16HB NIPPLE	68901
1/4 BODY-3/8HB NIPPLE	68902
1/4 BODY-1/4 HB NIPPLE PUSH-ON	68910
1/4 BODY-3/8 HB NIPPLE PUSH-ON	68912



INDUSTRIAL COUPLERS

DESCRIPTION	PART NUMBER
1/4 B-1/4 HB COUPLER	68940
1/4 B-5/16 HB COUPLER	68941
1/4 B-3/8 HB COUPLER	68942
1/4 B-1/4 HB COUPLER PUSH-ON	68950
1/4 B-3/8 HB COUPLER PUSH-ON	68952



PACKAGE ON ALL IS 1



COUPLINGS

AUTOMOTIVE STYLE

FEMALE PIPE COUPLER

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69015
3/8 BODY-3/8 FEMALE PIPE	69016
1/2 BODY-1/2 FEMALE PIPE	69017

MALE PIPE COUPLER

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 MALE PIPE	69019
3/8 BODY-3/8 MALE PIPE	69020
1/2 BODY-1/2 MALE PIPE	69021

FEMALE PIPE NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69023
3/8 BODY-3/8 FEMALE PIPE	69024
1/2 BODY-1/2 FEMALE PIPE	69025

MALE PIPE NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 MALE PIPE	69027
3/8 BODY-3/8 MALE PIPE	69028
1/2 BODY-1/2 MALE PIPE	69029

LINCOLN STYLE

FEMALE PIPE COUPLERS

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69038

MALE PIPE COUPLERS

DESCRIPTION	PART NUMBER
1/4 BODY-1/8 MALE PIPE	69037
1/4 BODY-1/4 MALE PIPE	69039

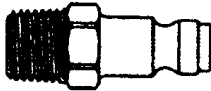
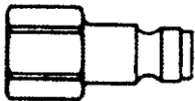
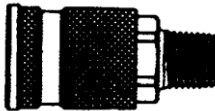
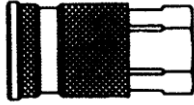
FEMALE PIPE NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69040

MALE PIPE NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/8 MALE PIPE	690401
1/4 BODY-1/4 MALE PIPE	69041

PACKAGE ON ALL IS 1



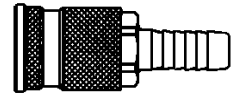


COUPLINGS

ARO STYLE COUPLING

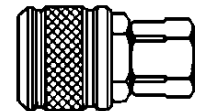
HOSE STEMS

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 HOSE	69030



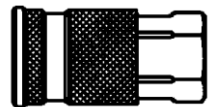
AUTOMATIC COUPLERS

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69031



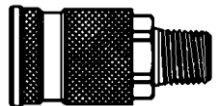
FEMALE PIPE COUPLERS

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69032



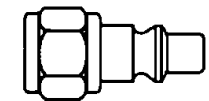
MALE PIPE COUPLERS

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 MALE PIPE	69033



FEMALE PIPE NIPPLES

DESCRIPTION	PART NUMBER
1/4 BODY-1/4 FEMALE PIPE	69034



MALE PIPE NIPPLES

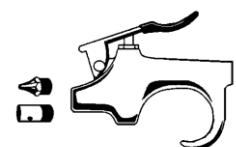
DESCRIPTION	PART NUMBER
1/4 BODY-1/4 MALE PIPE	69035



PACKAGE ON ALL IS 1

AIR BLOW GUN

PART NUMBER 69045





COUPLINGS

INDUSTRIAL STYLE HYDRAULIC QUICK CONNECTS ISO "B"

COUPLERS W / FEMALE PIPE THREAD

PIPE THREAD	STEEL PART NUMBER	BRASS PART NUMBER	STAINLESS PART NUMBER
1/8	69050	69050B	69050SS
1/4	69051	69051B	69051SS
3/8	69052	69052B	69052SS
1/2	69053	69053B	69053SS
3/4	69054	69054B	69054SS
1	69055	69055B	69055SS

PLUGS W / FEMALE PIPE THREAD

PIPE THREAD	STEEL PART NUMBER	BRASS PART NUMBER	STAINLESS PART NUMBER
1/8	69060	69060B	69060SS
1/4	69061	69061B	69061SS
3/8	69062	69062B	69062SS
1/2	69063	69063B	69063SS
3/4	69064	69064B	69064SS
1	69065	69065B	69065SS

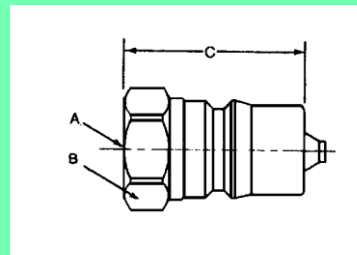
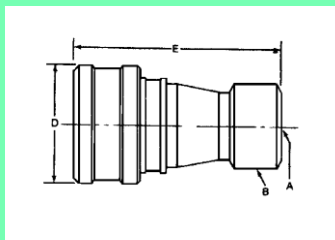
PACKAGE ON ALL IS 1

MATERIALS OF CONSTRUCTION

STEEL: ZINC PLATED, STAINLESS STEEL SPRINGS, CHROME STEEL LOCKING BALLS.
BRASS: MACHINED BRASS W/300 STAINLESS LOCKING BALLS AND STAINLESS SPRINGS.
STAINLESS: ALL METAL COMPONENTS MANUFACTURED FROM 303 STAINLESS STEEL.

A PIPE THREAD	B ACROSS FLATS	C PLUG LENGTH	D SLEEVE DIAMETER	E COUPLER LENGTH
1/8	9/16	1.17	.99	1.91
1/4	3/4	1.40	1.18	2.27
3/8	7/8	1.50	1.41	2.50
1/2	1-1/8	1.84	1.85	2.93
3/4	1-5/16	2.16	2.21	3.56
1	1-5/8	2.58	2.62	4.18

STANDARD SEALS: NITRILE





COUPLINGS

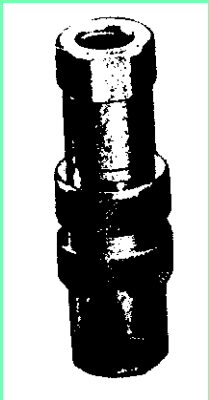
HEAVY DUTY FLUSH FACE-NON SPILL FE COUPLERS

PUSH TO CONNECT OPERATION: ALLOWS EASY ONE HAND CONNECTION. INTERCHANGES WITH OTHER ISO 16028 (PARKER FEM, SNAP-TITE 74) FLAT FACE COUPLINGS. FLAT FACES OF THE TWO COUPLING HALVES ARE EASY TO WIPE CLEAN, THE HYDRAULIC SYSTEM REMAINS FREE OF DIRT AND JOB SITE CONTAMINATES.

HT-SERIES ISO 16028 FLUSH FACE COUPLERS

DESCRIPTION	PART NUMBER
1/4 B - 1/4 FE PIPE	69070
3/8 B - 3/8 FE PIPE	69071
3/8 B - 1/2 FE PIPE	69073
1/2 B - 1/2 FE PIPE	69075
3/4 B - 3/4 FE PIPE	69077
1" B - 1" FE PIPE	69079

PACKAGE QUANTITIES ON ALL IS 1



FLUSH FACE NIPPLES (PLUGS)

DESCRIPTION	PART NUMBER
1/4 B - 1/4 FE PIPE	69080
3/8 B - 3/8 FE PIPE	69081
3/8 B - 1/2 FE PIPE	69083
1/2 B - 1/2 FE PIPE	69085
3/4 B - 3/4 FE PIPE	69087
1" B - 1" FE PIPE	69089

PACKAGE QUANTITIES ON ALL IS 1

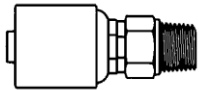


COUPLINGS

MEGA CRIMP G25-SERIES

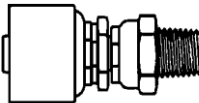
MALE PIPE

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-2MP	1/4	1/8-27	279010402
1J4-4MP	1/4	1/4-18	279010404
1J4-6MP	1/4	3/8-18	279010406
1J4-8MP	1/4	1/2-14	279010408
1J6-4MP	3/8	1/4-18	279010604
1J6-6MP	3/8	3/8-18	279010606
1J6-8MP	3/8	1/2-14	279010608
1J8-6MP	1/2	3/8-18	279010806
1J8-8MP	1/2	1/2-14	279010808
1J8-12MP	1/2	3/4-14	279010812
1J10-8MP	5/8	1/2-14	279011008
1J10-12MP	5/8	3/4-14	279011012
1J12-8MP	3/4	1/2-14	279011208
1J12-12MP	3/4	3/4-14	279011212
1J12-16MP	3/4	1-11 1/2	279011216
1J16-12MP	1	3/4-14	279011612
1J16-16MP	1	1-11 1/2	279011616
1J20-20MP	1-1/4	1-1/4-11 1/2	279012020



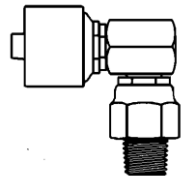
MALE PIPE SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4MPX	1/4	1/4-18	279020404
1J4-6MPX	1/4	3/8-18	279020406
1J4-8MPX	1/4	1/2-14	279020408
1J6-4MPX	3/8	1/4-18	279020604
1J6-6MPX	3/8	3/8-18	279020606
1J6-8MPX	3/8	1/2-14	279020608
1J8-6MPX	1/2	3/8-18	279020806
1J8-8MPX	1/2	1/2-14	279020808
1J10-12MPX	5/8	3/4-14	279021012
1J12-8MPX	3/4	1/2-14	279021208
1J12-12MPX	3/4	3/4-14	279021212
1J16-16MPX	1	1-11 1/2	279021616
1J20-20MPX	1-1/4	1-1/4-11 1/2	279022020



MALE PIPE SWIVEL 90° BLOCK

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4MPX90	1/4	1/4-18	279030404
1J4-6MPX90	1/4	3/8-18	279030406
1J6-4MPX90	3/8	1/4-18	279030604
1J6-6MPX90	3/8	3/8-18	279030606
1J6-8MPX90	3/8	1/2-14	279030608
1J8-8MPX90	1/2	1/2-14	279030808
1J12-12MPX90	3/4	3/4-14	279031212



PACKAGE ON ALL IS 1

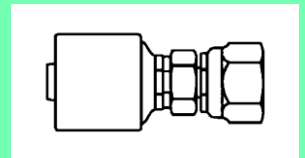


COUPLINGS

G25-SERIES COUPLINGS CON'T

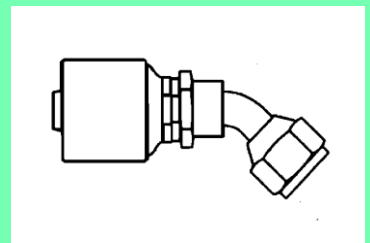
FEMALE JIC (37° FLARE SWIVEL)

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4FJX	1/4	7/16-20	279110404
1J4-5FJX	1/4	1/2-20	279110405
1J4-6FJX	1/4	9/16-18	279110406
1J5-5FJX	5/16	1/2-20	279110505
6G-5FJX	3/8	1/2-20	279110605
1J6-6FJX	3/8	9/16-18	279110606
1J6-8FJX	3/8	3/4-16	279110608
1J6-10FJX	3/8	7/8-14	279110610
1J8-6FJX	1/2	9/16-18	279110806
1J8-8FJX	1/2	3/4-16	279110808
1J8-10FJX	1/2	7/8-14	279110810
1J8-12FJX	1/2	1-1/16-12	279110812
1J10-8FJX	5/8	3/4-16	279111008
1J10-10FJX	5/8	7/8-14	279111010
1J10-12FJX	5/8	1-1/16-12	279111012
1J12-10FJX	3/4	7/8-14	279111210
1J12-12FJX	3/4	1-1/16-12	279111212
1J12-14FJX	3/4	1-3/16-12	279111214
1J12-16FJX	3/4	1-5/16-12	279111216
1J16-12FJX	1	1-1/16-12	279111612
1J16-16FJX	1	1-5/16-12	279111616
1J16-20FJX	1	1-5/8-12	279111620
1J20-20FJX	1-1/4	1-5/8-12	279112020



FEMALE JIC 45°

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J04-04FJX45M	1/4	7/16-20	279120404
1J04-06FJX45M	1/4	9/16-18	279120406
1J06-06FJX45M	3/8	9/16-18	279120606
1J06-08FJX45M	3/8	3/4-16	279120608
1J08-08FJX45M	1/2	3/4-16	279120808
1J08-10FJX45M	1/2	7/8-14	279120810
1J10-10FJX45M	5/8	7/8-14	279121010
1J12-12FJX45M	5/8	1-1/16-12	279121012
1J12-12FJX45M	3/4	1-1/16-12	279121212
1J16-16FJX45M	1	1-5/16-12	279121616



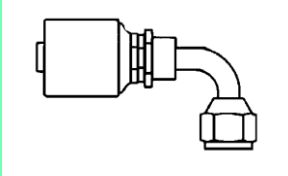
PACKAGE QUANTITY ON ALL IS 1



COUPLINGS

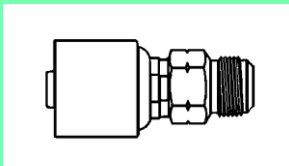
G25-SERIES COUPLINGS CON'T

FEMALE JIC 90°



DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4FJX90S	1/4	7/16-20	279130404
1J4-5FJX90S	1/4	1/2-20	279130405
1J4-6FJX90S	1/4	9/16-18	279130406
1J6-6FJX90S	3/8	9/16-18	279130606
1J6-8FJX90S	3/8	3/4-16	279130608
1J8-8FJX90S	1/2	3/4-16	279130808
1J8-10FJX90S	1/2	7/8-14	279130810
1J10-10FJX90S	5/8	7/8-14	279131010
1J10-12FJX90S	5/8	1-1/16-12	279131012
1J12-12FJX90S	3/4	1-1/16-12	279131212
1J16-16FJX90S	1	1-5/16-12	279131616
1J4-4FJX90M	1/4	7/16-20	279140404
1J4-5FJX90M	1/4	1/2-20	279140405
1J4-6FJX90M	1/4	9/16-18	279140406
1J6-6FJX90M	3/8	9/16-18	279140606
1J6-8FJX90M	3/8	3/4-16	279140608
1J8-8FJX90M	1/2	3/4-16	279140808
1J8-10FJX90M	1/2	7/8-14	279140810
1J10-10FJX90M	5/8	7/8-14	279141010
1J12-12FJX90M	3/4	1-1/16-12	279141212
1J16-16FJX90M	1	1-5/16-12	279141616
1J20-20FJX90M	1-1/4	1-5/8-12	279142020
1J4-4FJX90L	1/4	7/16-20	279150404
1J6-6FJX90L	3/8	9/16-18	279150606
1J6-8FJX90L	3/8	3/4-16	279150608
1J8-8FJX90L	1/2	3/4-16	279150808
1J8-10FJX90L	1/2	7/8-14	279150810
1J12-12FJX90L	3/4	1-1/16-12	279151212
1J16-16FJX90L	1	1-5/16-12	279151616

MALE SAE (45° FLARE)



DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4MS	1/4	7/16-20	279160404
1J6-6MS	3/8	5/8-18	279160606
1J8-8MS	1/2	3/4-16	279160808
1J8-10MS	1/2	7/8-14	279160810

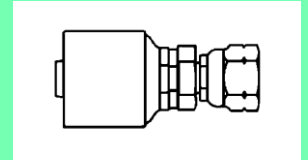


COUPLINGS

G25-SERIES COUPLINGS CON'T

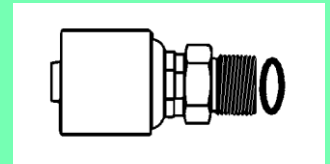
FEMALE SAE (45° FLARE) SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4FSX	1/4	7/16-20	279170404
1J4-5FSX	1/4	1/2-20	279170405
1J4-6FSX	1/4	5/8-18	279170406
1J6-6FSX	3/8	5/8-18	279170606
1J6-8FSX	3/8	3/4-16	279170608
1J8-8FSX	1/2	3/4-16	279170808
1J8-10FSX	1/2	7/8-14	279170810
1J12-12FSX	3/4	1-1/16-14	279171212



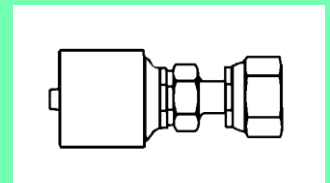
MALE FLAT FACED O-RING

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4MFFOR	1/4	9/16-18	279180404
1J4-6MFFOR	1/4	11/16-16	279180406
1J6-6MFFOR	3/8	11/16-16	279180606
1J6-8MFFOR	3/8	13/16-16	279180608
1J8-8MFFOR	1/2	13/16-16	279180808
1J8-10MFFOR	1/2	1-14	279180810
1J10-10MFFOR	5/8	1-14	279181010
1J12-12MFFOR	3/4	1-3/16-12	279181212
12G-16MFFOR	3/4	1-7/8-12	279181216
1J16-16MFFOR	1	1-7/16-12	279181616



FEMALE FLAT FACED O-RING SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4FFORX	1/4	9/16-18	279190404
1J4-6FFORX	1/4	11/16-16	279190406
1J6-6FFORX	3/8	11/16-16	279190606
1J6-8FFORX	3/8	13/16-16	279190608
1J8-6FFORX	1/2	11/16-16	279190806
1J8-8FFORX	1/2	13/16-16	279190808
1J8-10FFORX	1/2	1-14	279190810
1J10-10FFORX	5/8	1-14	279191010
1J10-12FFORX	5/8	1-3/16-12	279191012
1J12-10FFORX	3/4	1-14	279191210
1J12-12FFORX	3/4	1-3/16-12	279191212
1J12-16FFORX	3/4	1-7/16-12	279191216
1J16-16FFORX	1	1-7/16-12	279191616

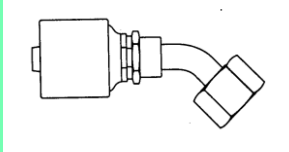




COUPLINGS

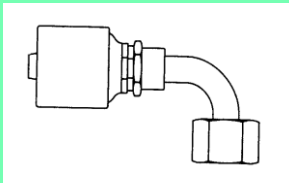
G25-SERIES COUPLINGS CON'T

FEMALE FLAT FACED O-RING SWIVEL 45°



MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4FFORX45	1/4	9/16-18	279200404
1J4-6FFORX45	1/4	11/16-16	279200406
1J6-6FFORX45	3/8	11/16-16	279200606
1J6-8FFORX45	3/8	13/16-16	279200608
1J8-8FFORX45	1/2	13/16-16	279200808
1J8-10FFORX45	1/2	13/16-16	279200810
1J10-10FFORX45	5/8	1-14	279201010
10G-12FFORX45	5/8	1 3/16-16	279201012
1J12-12FFORX45	3/4	1 3/16-16	279201212
12G-16FFORX45	3/4	1 7/16-12	279201216
1J16-16FFORX45	1	1 7/16-12	279201616

FEMALE FLAT FACED O-RING SWIVEL 90°



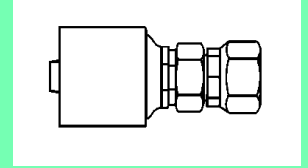
MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4FFORX90S	1/4	9/16-18	279210404
1J4-6FFORX90S	1/4	11/16-16	279210406
1J6-6FFORX90S	3/8	11/16-16	279210606
1J6-8FFORX90S	3/8	13/16-16	279210608
1J8-8FFORX90S	1/2	13/16-16	279210808
1J8-10FFORX90S	1/2	1-14	279210810
1J10-10FFORX90S	5/8	1-14	279211010
1J10-12FFORX90S	5/8	1 3/16-12	279211012
1J12-12FFORX90S	3/4	1 3/16-12	279211212
1J12-16FFORX90S	3/4	1 7/16-12	279211216
1J16-16FFORX90S	1	1 7/16-12	279211616
1J4-4FFORX90M	1/4	9/16-18	279220404
1J4-6FFORX90M	1/4	11/16-16	279220406
1J6-6FFORX90M	3/8	11/16-16	279220606
1J6-8FFORX90M	3/8	1-14	279220608
1J8-8FFORX90M	1/2	13/16-16	279220808
1J8-10FFORX90M	1/2	1-14	279220810
1J10-10FFORX90M	5/8	1-14	279221010
1J12-12FFORX90M	3/4	1 3/16-12	279221212
1J16-16FFORX90M	1	1 7/16-12	279221616
1J4-4FFORX90L	1/4	9/16-18	279230404
1J4-6FFORX90L	1/4	11/16-16	279230406
1J6-6FFORX90L	3/8	11/16-16	279230606
1J6-8FFORX90L	3/8	13/16-16	279230608
1J8-8FFORX90L	1/2	13/16-16	279230808
1J8-10FFORX90L	1/2	1-14	279230810
1J10-10FFORX90L	5/8	1-14	279231010
1J12-12FFORX90L	3/4	1 3/16-12	279231212



COUPLINGS

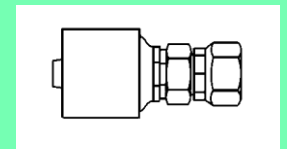
G25-SERIES COUPLINGS CON'T FEMALE DIN 24° CONE SWIVEL W / O-RING

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-6FDLORX	1/4	M12 X 1.5	279240406
1J4-8FDLORX	1/4	M14 X 1.5	279240408
1J4-10FDLORX	1/4	M16 X 1.5	279240410
4G-12FDLORX	1/4	M18 X 1.5	279240412
1J6-10FDLORX	3/8	M16 X 1.5	279240610
1J6-12FDLORX	3/8	M18 X 1.5	279240612
1J8-15FDLORX	1/2	M22 X 1.5	279240815
1J10-18FDLORX	5/8	M26 X 1.5	279241018
12G-22FDLORX	3/4	M30 X 2.0	279241222
16G-28FDLORX	1	M36 X 2.0	279241628
20G-35FDLORX	1-1/4	M45 X 2.0	279242035



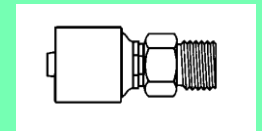
FEMALE DIN 24° CONE SWIVEL-HEAVY SERIES W / O-RING

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-8FDHORX	1/4	M16 X 1.5	279250408
1J4-10FDHORX	1/4	M18 X 1.5	279250410
1J6-10FDHORX	3/8	M18 X 1.5	279250610
1J6-12FDHORX	3/8	M20 X 1.5	279250612
1J6-14FDHORX	3/8	M22 X 1.5	279250614
8G-12FDHORX	1/2	M20 X 1.5	279250812
1J8-16FDHORX	1/2	M24 X 1.5	279250816
1J10-20FDHORX	5/8	M30 X 1.5	279251020
12G-20FDHORX	3/4	M30 X 2.0	279251220
12G-25FDHORX	3/4	M36 X 2.0	279251225
16G-25FDHORX	1	M36 X 2.0	279251625
16G-30FDHORX	1	M42 X 2.0	279251630



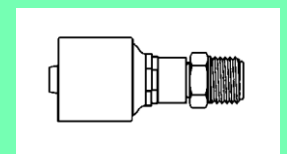
MALE DIN 24° CONE-LIGHT SERIES

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-8MDL	1/4	M14 X 1.5	279260408
1J4-10MDL	1/4	M16 X 1.5	279260410
1J6-10MDL	3/8	M16 X 1.5	279260610
1J6-12MDL	3/8	M18 X 1.5	279260612
1J8-15MDL	1/2	M22 X 1.5	279260815
1J10-18MDL	5/8	M26 X 1.5	279261018
1J12-22MDL	3/4	M30 X 2.0	279261222



SAE MALE INVERTED SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4MIX	1/4	7/16-24	279270404
1J4-5MIX	1/4	1/2-20	279270405
1J6-5MIX	3/8	1/2-20	279270605
1J6-6MIX	3/8	5/8-18	279270606
1J6-7MIX	3/8	11/16-18	279270607
1J8-6MIX	1/2	3/4-16	279270806
1J8-8MIX	1/2	3/4-16	279270808

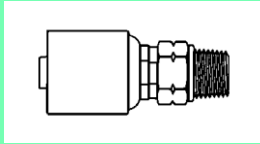




COUPLINGS

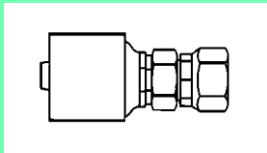
G25-SERIES COUPLINGS CON'T

MALE BRITISH STANDARD PIPE TAPERED



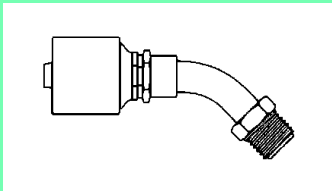
DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4MBSPT	1/4	1/4-19	279280404
1J6-6MBSPT	3/8	3/8-19	279280606
1J8-8MBSPT	1/2	1/2-14	279280808
1J12-12MBSPT	3/4	3/4-14	279281212
1J16-16MBSPT	1	1-11	279281616

FEMALE BRITISH STANDARD PARALLEL PIPE O-RING SWIVEL



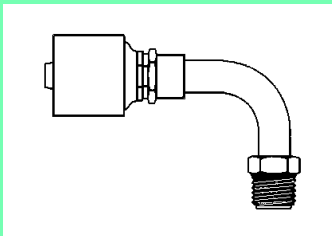
DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4FBSPORX	1/4	1/4-19	279290404
1J4-6FBSPORX	1/4	3/8-19	279290406
5G-6FBSPORX	5/16	3/8-19	279290506
5G-8FBSPORX	5/16	1/2-14	279290508
1J6-6FBSPORX	3/8	3/8-19	279290606
1J6-8FBSPORX	3/8	1/2-14	297290608
8G-6FBSPORX	1/2	3/8-19	279290806
1J8-8FBSPORX	1/2	1/2-14	279290808
1J8-10FBSPORX	1/2	3/4-14	279290810
1J10-10FBSPORX	5/8	3/4-14	279291010
1J10-12FBSPORX	5/8	3/4-14	279291012
1J12-12FBSPORX	3/4	3/4-14	279291212
1J12-16FBSPORX	3/4	1-11	279291216
1J16-16FBSPORX	1	1-11	279291616
1J20-20FBSPORX	1-1/4	1-1/4-11	279292020

SAE MALE INVERTED SWIVEL 45°



DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J6-4MIX45	3/8	7/16-24	279300604
1J6-5MIX45	3/8	1/2-20	279300605
1J6-6MIX45	3/8	5/8-18	279300606
1J6-7MIX45	3/8	11/16-18	279300607

SAE MALE INVERTED SWIVEL 90°



DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
1J4-4MIX90	1/4	7/16-24	279310404
1J4-5MIX90	1/4	1/2-20	279310405
1J6-4MIX90	3/8	7/16-24	279310604
1J6-5MIX90	3/8	1/2-20	279310605
1J6-6MIX90	3/8	5/8-18	279310606
1J6-7MIX90	3/8	11/16-18	279310607
1J8-8MIX90	1/2	3/4-16	279310808

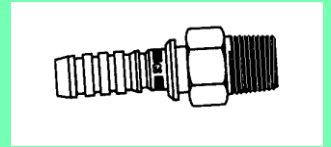


COUPLINGS

MEGA CRIMP GS G-20 SERIES

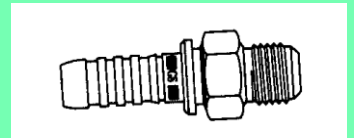
MALE PIPE

DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8MP	1/2	279320808
8GS-12MP	1/2	279320812
12GS-12MP	3/4	279321212
12GS-16MP	3/4	279321216
16GS-12MP	1	279321612
16GS-16MP	1	279321616
16GS-20MP	1	279321620
20GS-20MP	1-1/4	279322020



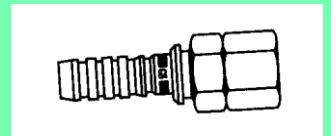
MALE JIC

DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8MJ	1/2	279330808
8GS-10MJ	1/2	279330810
12GS-12MJ	3/4	279331212
12GS-14MJ	3/4	279331214
12GS-16MJ	3/4	279331216
16GS-16MJ	1	279331616
16GS-20MJ	1	279331620
20GS-20MJ	1-1/4	279332020



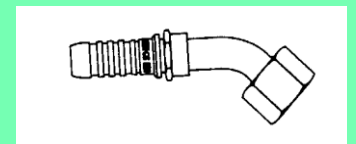
FEMALE JIC SWIVEL

DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FJX	1/2	279340808
8GS-10FJX	1/2	279340810
8GS-12FJX	1/2	279340812
12GS-10FJX	3/4	279341210
12GS-12FJX	3/4	279341212
12GS-14FJX	3/4	279341214
12GS-16FJX	3/4	279341216
16GS-12FJX	1	279341612
16GS-14FJX	1	279341614
16GS-16FJX	1	279341616
16GS-20FJX	1	279341620
20GS-16FJX	1-1/4	279342016
20GS-20FJX	1-1/4	279342020
20GS-24FJX	1-1/4	279342024



FEMALE JIC SWIVEL 45°

DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FJX45S	1/2	279350808
8GS-10FJX45S	1/2	279350810
12GS-12FJX45S	3/4	279351212
16GS-16FJX45M	1	279351616
20GS-20FJX45-038	1-1/4	279352020

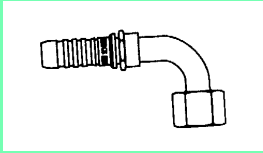


PACKAGE ON ALL IS 1



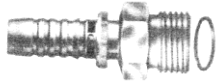
COUPLINGS

GS G-20 SERIES CON'T FEMALE JIC SWIVEL 90°



DESCRIPTION	HOSE I.D.	PART NUMBER
12GS-12FJX90M	3/4	279361212
12GS-14FJX90-060	3/4	279361214
12GS-16FJX90M	3/4	279361216
16GS-16FJX90M	1	279361616
20GS-20FJX90M	1-1/4	279362020

MALE FLAT FACE



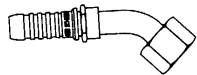
DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8MFFOR	1/2	279500808
12GS-12MFFOR	3/4	279501212
16GS-16MFFOR	1	279501616
20GS-20MFFOR	1-1/4	279502020

FEMALE FLAT FACE



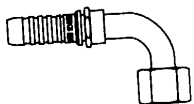
DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FFORX	1/2	279510808
8GS-10FFORX	1/2	279510810
8GS-12FFORX	1/2	279510812
12GS-10FFORX	3/4	279511210
12GS-12FFORX	3/4	279511212
12GS-16FFORX	3/4	279511216
16GS-16FFORX	1	279511616
16GS-20FFORX	1	279511620
20GS-20FFORX	1-1/4	279512020

FEMALE FLAT FACE 45°



DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FFORX45S	1/2	279520808
8GS-10FFORX45S	1/2	279520810
12GS-12FFORX45S	3/4	279521212
12GS-16FFORX45S	3/4	279521216
16GS-16FFORX45S	1	279521616
16GS-20FFORX45S	1	279521620
20GS-20FFORX45-032	1-1/4	279522020

FEMALE FLAT FACE 90°



DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FFOR90-083	1/2	279530808
8GS-10FFORX90M	1/2	279530810
12GS-10FFORX90S	3/4	279531210
12GS-12FFORX90M	3/4	279531212
GS12-12FFORX90L	3/4	279531212L
12GS-16FFORX90S	3/4	279531216
1W16-16FFORX90M	1	279531616
16GS-16FFORX90L	1	279531616L
16GS-20FFORX90M	1	279531620
20GS-20FFORX90M	1-1/4	279532020

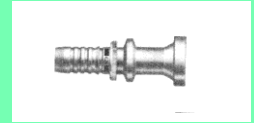
PACKAGE IS 1



COUPLINGS

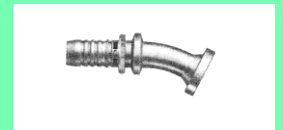
GS G-20 SERIES CON'T O-RING FLANGE CODE 61

DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FL	1/2	279550808
8GS-12FL	1/2	279550812
12GS-12FL	3/4	279551212
12GS-16FL	3/4	279551216
12GS-20FL	3/4	279551220
16GS-16FL	1	279551616
16GS-20FL	1	279551620
20GS-20FL	1-1/4	279552020
20GS-24FL	1-1/4	279552024



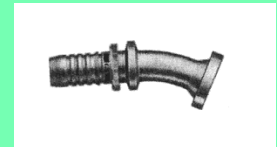
22-1/2° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FL22M	1/2	279560808
12GS-12FL22M	3/4	279561212
16GS-16FL22M	1	279561616
16GS-20FL22M	1	279561620
20GS-20FL22M	1-1/4	279562020



30° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
12GS-12FL30M	3/4	279571212
16GS-16FL30M	1	279571616
20GS-20FL30M	1-1/4	279572020



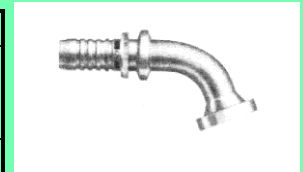
45° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FL45M	1/2	279580808
8GS-12FL45M	1/2	279580812
12GS-12FL45M	3/4	279581212
12GS-16FL45M	3/4	279581216
16GS-16FL45M	1	279581616
16GS-20FL45M	1	279581620
20GS-20FL45S	1-1/4	279582020



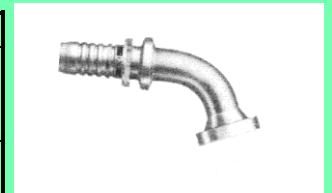
60° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
12GS-12FL60M	3/4	279591212
12GS-16FL60M	3/4	279591216
16GS-16FL60M	1	279591616
16GS-20FL60M	1	279591620
20GS-20FL60M	1-1/4	279592020
20GS-24FL60M	1-1/4	279592024



67° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
12GS-12FL67M	3/4	279601212
12GS-16FL67M	3/4	279601216
16GS-16FL67M	1	279601616
16GS-20FL67M	1	279601620
20GS-20FL67M	1-1/4	279602020



PACKAGE IS 1



COUPLINGS

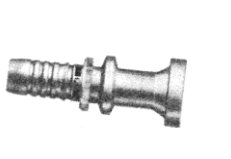
GS G-20 SERIES CON'T O-RING FLANGE CODE 61

90° BENT TUBE



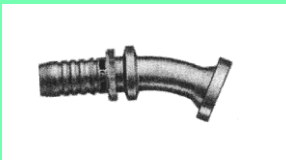
DESCRIPTION	HOSE I.D.	PART NUMBER
8GS-8FL90M	1/2	279610808
12GS-12FL90M	3/4	279611212
12GS-16FL90M	3/4	279611216
16GS-16FL90M	1	279611616
16GS-20FL90M	1	279611620
20GS-20FL90M	1-1/4	279612020

O-RING HEAVY FLANGE CODE 62



DESCRIPTION	HOSE I.D.	PART NUMBER
12GS-12FLH	3/4	279621212
16GS-16FLH	1	279621616
20GS-20FLH	1-1/4	279622020

30° BENT TUBE



DESCRIPTION	HOSE I.D.	PART NUMBER
16GS-16FLH30M	1	279631616
20GS-20FLH30M	1-1/4	279632020

45° BENT TUBE



DESCRIPTION	HOSE I.D.	PART NUMBER
12GS-12FLH45M	3/4	279641212
12GS-16FLH45M	3/4	279641216
16GS-16FLH45M	1	279641616
16GS-20FLH45M	1	279641620
20GS-20FLH45M	1-1/4	279642020

90° BENT TUBE



DESCRIPTION	HOSE I.D.	PART NUMBER
12GS-12FLH90M	3/4	279651212
12GS-16FLH90M	3/4	279651216
16GS-16FLH90M	1	279651616
16GS-20FLH90M	1	279651620
20GS-20FLH90M	1-1/4	279652020

CATAPILLAR STYLE O-RING FLANGE



DESCRIPTION	HOSE I.D.	PART NUMBER
16GS-16FLC	1	279661616
16GS-20FLC	1	279661620
20GS-20FLC	1-1/4	279662020

45° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
16GS-16FLC45-037	1	279671616
20GS-20FLC45-037	1-1/4	279672020

90° BENT TUBE

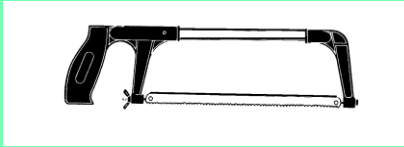
DESCRIPTION	HOSE I.D.	PART NUMBER
16GS-16FLC90-074	1	279681616
20GS-20FLC90-077	1-1/4	279682020

PACKAGE IS 1



CUTTING TOOLS

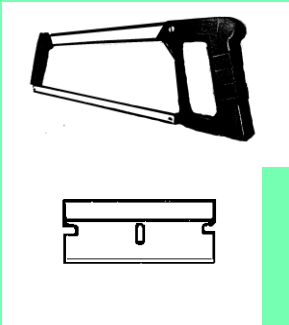
CUTTING TOOLS



FRAMES

HAS A DIE CAST FRAME TO RESIST BENDING

#79010

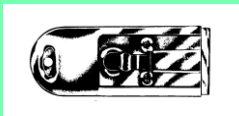


#79012

SINGLE EDGE RAZOR BLADE

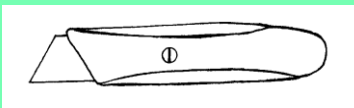
#79050

10 BLADES TO A PACK



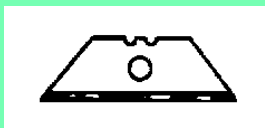
SCRAPER KNIFE

#79058



UTILITY KNIFE

#79051



UTILITY BLADES

#79057

PACKAGE IS 100

#79057A

PACKAGE IS 10



CUTTING TOOLS

COBALT BI-HARD HACKSAW BLADES

SIZE & TEETH PER INCH	PART NUMBER
18T X 10" X 1/2	79001
24T X 10" X 1/2	79002
32T X 10" X 1/2	79003
18T X 12" X 1/2	79005
24T X 12" X 1/2	79006
32T X 12" X 1/2	79007

PACKAGE IS 10

3P SET COBALT BI-HARD HACKSAW BLADES

COARSE, MEDIUM, FINE

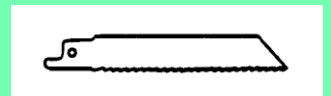
PART#79008



RECIPROCATING SAW BLADES

COBALT BI-METAL

LENGTH & TEETH PER INCH	PART NUMBER
14TS X 4"	C07400
18TS X 4"	C07401
10T X 4"	C07410
14T X 4"	C07414
18T X 4"	C07418
24T X 4"	C07424
6TS X 6"	C07600
6VT X 6"	C07601
5/8T X 6"	C07602
10/14T X 6"	C07603
6T X 6"	C07606
10T X 6"	C07610
14T X 6"	C07614
18T X 6"	C07618
24T X 6"	C07624
10/14T X 9"	C07901
6T X 9"	C07906
14T X 9"	C07914
18T X 9"	C07918
6T X 12"	C07206
14T X 12"	C07214



DEMOLITION/REMODELING BLADES

LENGTH & TEETH PER INCH	PART NUMBER
6T X 6"	C07604
8/10T X 6"	C07605
6T X 9"	C07902
8/10T X 9"	C07903
6T X 12"	C07207

PACKAGE ON ALL IS 1

COBALT RECIPROCATING BLADES

5PC 10/14T X 6" **C07503**
 5PC 14T X 6" **C07514**
 5PC 18T X 6" **C07518**



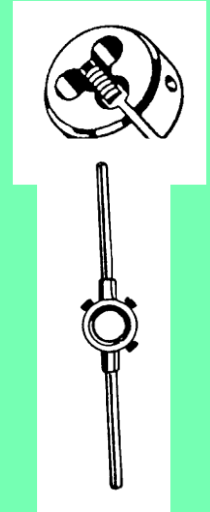
DIES

DIES

HIGH SPEED

ADJUSTABLE ROUND DIES

COARSE THREAD	NUMBER	FINE THREAD	NUMBER	OUTER DIA.
6-32	76100	6-40	76120	1
8-32	76101	8-36	76121	1
10-24	76102	10-32	76122	1
12-24	76103	12-28	76123	1
1/4-20	76104	1/4-28	76124	1
5/16-18	76105	5/16-24	76125	1
3/8-16	76106	3/8-24	76126	1
7/16-14	76107	7/16-20	76127	1
1/2-13	76108	1/2-20	76128	1 1/2
9/16-12	76109	9/16-18	76129	1 1/2
5/8-11	76110	5/8-18	76130	1 1/2
3/4-10	76111	3/4-16	76131	2
7/8-9	76112	7/8-14	76132	2
1-8	76113	1-14	76133	2
1-1/2-6	76114			2-1/2
PACKAGE QUANTITY IS ONE				



DESCRIPTION	NUMBER
1/16-3/8 STRAIGHT TAP WRENCH	76150
5/32-3/4 STRAIGHT TAP WRENCH	76151
1/2-1 3/8 STRAIGHT TAP WRENCH	76152
1 INCH DIE STOCK	76160
1 1/2 INCH DIE STOCK	76161
2 INCH DIE STOCK	76162
PACKAGE QUANTITY IS ONE	

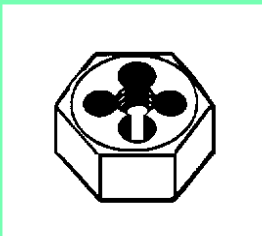
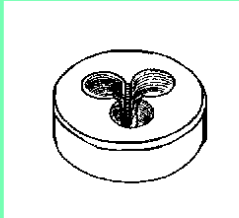
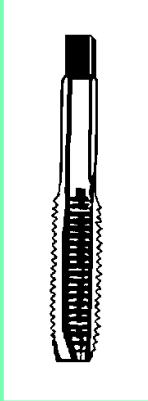




DIES

TAPS AND DIES

CARBON STEEL



THREAD	HAND TAP NUMBER	ROUND DIE NUMBER	HEX DIE NUMBER	DIE STOCK NUMBER
6-32	79760	79903	79953	1 INCH
8-32	79762	79905	79955	ROUND
10-24	79764	79906	79956	79930
10-32	79765	79907	79957	1 INCH
12-24	79766	79908	79958	HEX
1/4-20	79768	79920	79960	79980
1/4-28	79769	79925	79961	1-1/2 INCH
5/16-18	79770	79921	79962	ROUND
5/16-24	79771	79926	79963	79939
3/8-16	79772	79922	79964	2 INCH
3/8-24	79773	79927	79965	ROUND
7/16-14	79774	79923	79966	79947
7/16-20	79775	79928	79967	
1/2-13	79776	79924	79968	
1/2-20	79777	79929	79969	
9/16-12	79778	79931		
9/16-18	79779	79934		
5/8-11	79780	79932		
5/8-18	79781	79935		
3/4-10	79782	79933		
3/4-16	79783	79936		
7/8-9	79784	79941		
7/8-14	79785	79943		
1-8	79786	79942		
1-14	79787	79945		

**ADD B FOR BOTTOM AND T FOR TAPER TAP TO ITEM NUMBER,
AS IN 79776B FOR A 1/2-13 BOTTOM TAP**

**THE PLUG STYLE IS THE MOST COMMONLY USED TAP
3 TO 5 THREADS CHAMFERED**

**THE TAPER STYLE FOR EASIER STARTING IN TOUGH MATERIALS
8 TO 10 THREADS CHAMFERED.**

**THE BOTTOMING STYLE FOR TAPPING TO BOTTOM OF HOLE
1 TO 1-1/2 THREADS CHAMFERED**



DRILL BITS

DRILL BITS

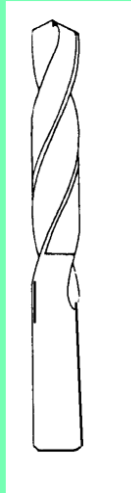
JOBBER LENGTH TYPE 190-AG

JOBBER LENGTH DRILLS. MAGNUM SUPER PREMIUM.

SPECIAL HI-MOLYBDENUM TOOL STEEL 135° SPLIT POINT FOR FAST PENETRATION AND ACCURATE STARTING WITHOUT A CENTER PUNCH. PRECISION GROUND POINT, FLUTES, BODY, CLEARANCE AND DRILL DIAMETER FOR THE ULTIMATE IN ACCURACY AND PERFORMANCE. BODY AND CLEARANCE ARE GOLD SURFACE TREATED FOR MAXIMUM LUBRICITY.

FRACTIONAL SIZES

DIAMETER	PART NUMBER	OAL	FLUTE LENGTH	DIAMETER	PART NUMBER	OAL	FLUTE LENGTH
1/16	79303	1 7/8	7/8	27/64	79328	5 3/8	3 15/16
5/64	79304	2	1	7/16	79329	5 1/2	4 1/16
3/32	79305	2 1/4	1 1/4	29/64	79330	5 5/8	4 3/16
7/64	79306	2 5/8	1 1/2	15/32	79331	5 3/4	4 5/16
1/8	79307	2 3/4	1 5/8	31/64	79332	5 7/8	4 3/8
9/64	79308	2 7/8	1 3/4	1/2	79333	6	4 1/2
5/32	79310	3 1/8	2	33/64	79334	6 5/8	4 13/16
11/64	79311	3 1/4	2 1/8	17/32	79335	6 5/8	4 13/16
3/16	79312	3 1/2	2 5/16	35/64	79336	6 5/8	4 13/16
13/64	79313	3 5/8	2 7/16	9/16	79337	6 5/8	4 13/16
7/32	79314	3 3/4	2 1/2	37/64	79338	7 1/8	4 13/16
15/64	79315	3 7/8	2 5/8	19/32	79339	7 1/8	5 3/16
1/4	79316	4	2 3/4	39/64	79340	7 1/8	5 3/16
17/64	79317	4 1/8	2 7/8	5/8	79341	7 1/8	5 3/16
9/32	79318	4 1/4	2 15/16	41/64	79342	7 1/8	5 3/16
19/64	79320	4 3/8	3 1/16	21/32	79343	7 3/8	5 3/16
5/16	79321	4 1/2	3 3/16	43/64	79344	7 3/8	5 5/8
21/64	79322	4 5/8	3 5/16	11/16	79345	7 3/8	5 5/8
11/32	79323	4 3/4	3 7/16	45/64	79346	7 3/8	5 5/8
23/64	79324	4 7/8	3 1/2	23/32	79347	7 3/8	5 5/8
3/8	79325	5	3 5/8	47/64	79348	7 3/8	5 5/8
25/64	79326	5 1/8	3 3/4	3/4	79349	7 3/8	5 5/8
13/32	79327	5 1/4	3 7/8				



LETTER SIZES

DIAMETER	PART NUMBER	OAL	FLUTE LENGTH	DIAMETER	PART NUMBER	OAL	FLUTE LENGTH
A	79366	3 7/8	2 5/8	N	79379	4 3/8	3 1/16
B	79367	4	2 3/4	O	79380	4 1/2	3 3/16
C	79368	4	2 3/4	P	79381	4 5/8	3 5/16
D	79369	4	2 3/4	Q	79382	4 3/4	3 7/16
E	79370	4	2 3/4	R	79383	4 3/4	3 7/16
F	79371	4 1/8	2 7/8	S	79384	4 7/8	3 1/2
G	79372	4 1/8	2 7/8	T	79385	4 7/8	3 1/2
H	79373	4 1/8	2 7/8	U	79386	5	3 5/8
I	79374	4 1/8	2 7/8	V	79387	5	3 5/8
J	79375	4 1/8	2 7/8	W	79388	5 1/8	3 3/4
K	79376	4 1/4	2 15/16	X	79389	5 1/8	3 3/4
L	79377	4 1/4	2 15/16	Y	79390	5 1/4	3 7/8
M	79378	4 3/8	3 1/16	Z	79391	5 1/4	3 7/8

1/16-9/32 AND A-L PACK IS 12, 19/64 THRU 1/2 AND THRU Z PACK IS 6, ALL OTHERS ARE 1.



DRILL BITS

**JOBBER LENGTH TYPE 190-AG
MAGNUM SUPER PREMIUM.
BLACK & GOLD HEAVY DUTY 135° POINT**

WIRE GAUGES

DIAMETER	PART NUMBER	OAL	FLUTE LENGTH	DIAMETER	PART NUMBER	OAL	FLUTE LENGTH
1	79700	3 7/8	2 5/8	31	79730	2 3/4	1 5/8
2	79701	3 7/8	2 5/8	32	79731	2 3/4	1 5/8
3	79702	3 3/4	2 1/2	33	79732	2 5/8	1 1/2
4	79703	3 3/4	2 1/2	34	79733	2 5/8	1 1/2
5	79704	3 3/4	2 1/2	35	79734	2 5/8	1 1/2
6	79705	3 3/4	2 1/2	36	79735	2 1/2	1 7/16
7	79706	3 5/8	2 7/16	37	79736	2 1/2	1 7/16
8	79707	3 5/8	2 7/16	38	79737	2 1/2	1 7/16
9	79708	3 5/8	2 7/16	39	79738	2 3/8	1 3/8
10	79709	3 5/8	2 7/16	40	79739	2 3/8	1 3/8
11	79710	3 1/2	2 5/16	41	79740	2 3/8	1 3/8
12	79711	3 1/2	2 5/16	42	79741	2 1/4	1 1/4
13	79712	3 1/2	2 5/16	43	79742	2 1/4	1 1/4
14	79713	3 3/8	2 3/16	44	79743	2 1/8	1 1/8
15	79714	3 3/8	2 3/16	45	79744	2 1/8	1 1/8
16	79715	3 3/8	2 3/16	46	79745	2 1/8	1 1/8
17	79716	3 3/8	2 3/16	47	79746	2	1
18	79717	3 1/4	2 1/8	48	79747	2	1
19	79718	3 1/4	2 1/8	49	79748	2	1
20	79719	3 1/4	2 1/8	50	79749	2	1
21	79720	3 1/4	2 1/8	51	79750	2	1
22	79721	3 1/8	2	52	79751	1 7/8	7/8
23	79722	3 1/8	2	53	79752	1 7/8	7/8
24	79723	3 1/8	2	54	79753	1 7/8	7/8
25	79724	3	1 7/8	55	79754	1 7/8	7/8
26	79725	3	1 7/8	56	79755	1 3/4	3/4
27	79726	3	1 7/8	57	79756	1 3/4	3/4
28	79727	2 7/8	1 3/4	58	79757	1 5/8	11/16
29	79728	2 7/8	1 3/4	59	79758	1 5/8	11/16
30	79729	2 3/4	1 5/8	60	79759	1 5/8	11/16

PACKAGE QUANTITY IS 1

TITANIUM NITRIDE COATED

DIAMETER	PART NUMBER	OAL	FLUTE LENGTH	DIAMETER	PART NUMBER	OAL	FLUTE LENGTH
1/16	79270	1 7/8	7/8	19/64	79285	4 3/8	3 1/16
5/64	79271	2	1	5/16	79286	4 1/2	3 3/16
3/32	79272	2 1/4	1 1/4	21/64	79287	4 5/8	3 5/16
7/64	79273	2 5/8	1 1/2	11/32	79288	4 3/4	3 7/16
1/8	79274	2 3/4	1 5/8	23/64	79289	4 7/8	3 1/2
9/64	79275	2 7/8	1 3/4	3/8	79290	5	3 5/8
5/32	79276	3 1/8	2	25/64	79291	5 1/8	3 3/4
11/64	79277	3 1/4	2 1/8	13/32	79292	5 1/4	3 7/8
3/16	79278	3 1/2	2 5/16	27/64	79293	5 3/8	3 15/16
13/64	79279	3 5/8	2 7/16	7/16	79294	5 1/2	4 1/16
7/32	79280	3 3/4	2 1/2	29/64	79295	5 5/8	4 3/16
15/64	79281	3 7/8	2 5/8	15/32	79296	5 3/4	4 5/16
1/4	79282	4	2 3/4	31/64	79297	5 7/8	4 3/8
17/64	79283	4 1/8	2 7/8	1/2	79298	6	4 1/2
9/32	79284	4 1/4	2 15/16				

PACKAGE IS 1



DRILL BITS

METRIC JOBBER LENGTH DRILLS TYPE 170-AG MAGNUM SUPER PREMIUM BLACK AND GOLD HEAVY DUTY 135° SPLIT POINT



SIZE MM	OAL MM	FLUTE LENGTH	PART NUMBER
4.00	83	54	78925
4.50	86	56	78927
5.00	92	62	78930
5.50	95	64	78932
6.00	102	70	78938
6.50	105	73	78940
7.00	105	73	78942
7.50	111	78	78945
8.00	114	81	78948
8.50	121	87	78950
9.00	124	89	78952
9.50	127	92	78955
10.00	130	95	78958
10.50	133	98	78960
11.00	140	103	78962
11.50	143	106	78965
12.00	149	111	78968
12.50	152	114	78970
13.00	152	114	78972

PACKAGE IS 1



DRILL BITS

REDUCED SHANK DRILLS MAGNUM AND HIGH SPEED

TYPE 130-AG ARE SPECIAL HI-MOLY TOOL STEEL. 135° SPLIT POINT ON SIZES 33/64 THROUGH 3/4 LARGER SIZES HAVE 118° POINT. THEY ARE RECOMMENDED FOR USE IN WORK HARDENING GRADES OF STAINLESS STEEL AND OTHER HARD METAL DRILLING. THREE FLATS ON THE SHANK. **TYPE 130** ARE GENERAL PURPOSE DRILLS WITH REDUCED 1/2 SHANKS. **TYPE 128** ARE 3/8 SHANK DRILLS. LENGTH ON DRILLS 1/2 AND ABOVE IS 6 INCHES. POINTS ARE 118°

SIZE	128-AG	128	130-AG
25/64	78701	79670	
13/32	78702	79671	
27/64	78703	79672	
7/16	78704	79673	
29/64	78705	79674	
15/32	78706	79675	
31/64	78707	79676	78720
1/2	78708	79677	78721
17/32	78709	79678	78722
9/16	78710	79679	78723
19/32	78711	79680	
5/8	78712	79681	

TYPE 130 1/2 SHANK SILVER & DEMING DRILLS

SIZE	PART NUMBER	SIZE	PART NUMBER
17/32	79601	7/8	79623
9/16	79603	57/64	79624
19/32	79605	29/32	79625
5/8	79607	59/64	79626
41/64	79608	15/16	79627
21/32	79609	61/64	79628
43/64	79610	31/32	79629
11/16	79611	63/64	79630
45/64	79612	1	79631
23/32	79613	1 1/16	79635
47/64	79614	1 1/8	79639
3/4	79615	1 5/32	79641
49/64	79616	1 3/16	79643
25/32	79617	1 1/4	79647
51/64	79618	1 5/16	79651
13/16	79619	1 3/8	79655
53/64	79620	1 7/16	79659
27/32	79621	1 1/2	79663
55/64	79622		
PACKAGE QUANTITY IS ONE			



DRILL BITS

ROTARY HAMMER

HEAVY DUTY STRAIGHT SHANK

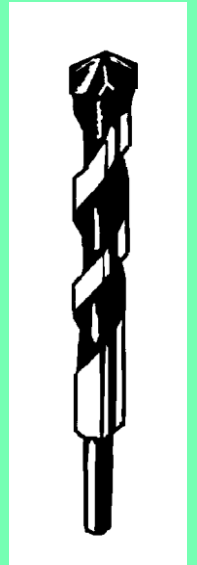
MASONRY DRILL BITS WITH CARBIDE TIPS

DESCRIPTION	PART NUMBER
1/8 X 3"	78800
5/32 X 4"	78801
3/16 X 4"	78803
3/16 X 6"	78804
1/4 X 4"	78806
1/4 X 6"	78807
5/16 X 6"	78810
3/8 X 6"	78813
1/2 X 6"	78814
1/2 X 12"	78816
5/8 X 12"	78819
3/4 X 12"	78822
1" X 12"	78824

PACKAGE QUANTITY IS ONE

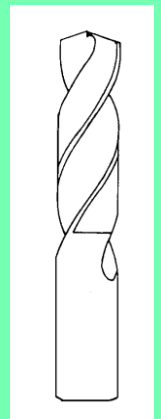
JOBBER LENGTH DRILLS

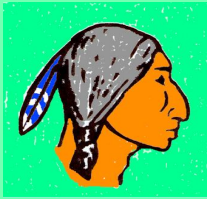
MAGNUM SUPER PREMIUM LEFT HAND SPIRAL



HEAVY DUTY 135° SPLIT POINT

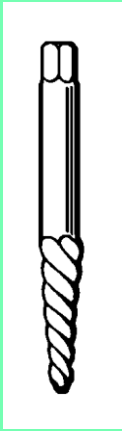
DIAMETER	OAL	FLUTE LENGTH	PART NUMBER
1/16	1-7/8	7/8	78901
5/64	2	1	78902
3/32	2-1/4	1-1/4	78903
7/64	2-5/8	1-1/2	78904
1/8	2-3/4	1-5/8	78905
9/64	2-7/8	1-3/4	78906
5/32	3-1/8	2	78907
11/64	3-1/4	2-1/8	78908
3/16	3-1/2	2-5/16	78909
13/64	3-5/8	2-7/16	78910
7/32	3-3/4	2-1/2	78911
15/64	3-7/8	2-5/8	78912
1/4	4	2-3/4	78913
17/64	4-1/8	2-7/8	78914
9/32	4-1/4	2-15/16	78915
19/64	4-3/8	3-1/16	78916
5/16	4-1/2	3-3/16	78917
3/8	5	3-5/8	78918
7/16	5-1/2	4-1/16	78919
1/2	6	4-1/2	78920





DRILL BITS

SPIRAL FLUTE EASY-OUT



NUMBER	DRILL SIZE	PART NUMBER
1	5/64	C73301
2	7/64	C73302
3	5/32	C73303
4	1/4	C73304
5	19/64	C73305
6	13/32	C73306

STANDARD PACK IS 6



DRIVERS

DRIVERS

POWER

MAGNETIC HEX DRIVERS

HEX SIZE	SCREW SIZE	OVERALL LENGTH	PART NUMBER	PACKAGE
1/4	8	1 5/8	MIT2896	1
5/16	10,12	1 5/8	MIT2897	1

PHILLIPS DRIVERS

BIT NUMBER	SCREW SIZE	PART NUMBER	PACKAGE
1	6,8	78505	1
2	8,10	78506	1
3	12,14,5/16	78507	1

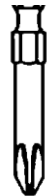
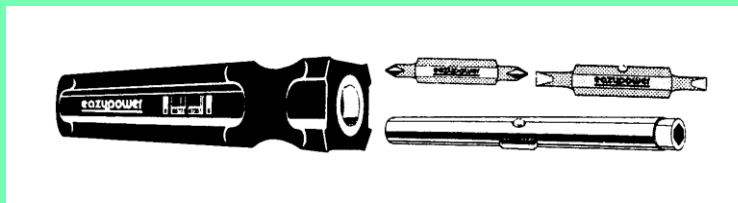
TORX DRIVERS

TORX NUMBER	SCREW SIZE	OVERALL LENGTH	PART NUMBER	PACKAGE
T-30	1/4	2	78511	1
T-40	5/16	2	78512	1

6 IN 1 PHILLIPS/SLOTTED SCREWDRIVER

TUBE ENDS CAN BE USED AS NUT SETTERS

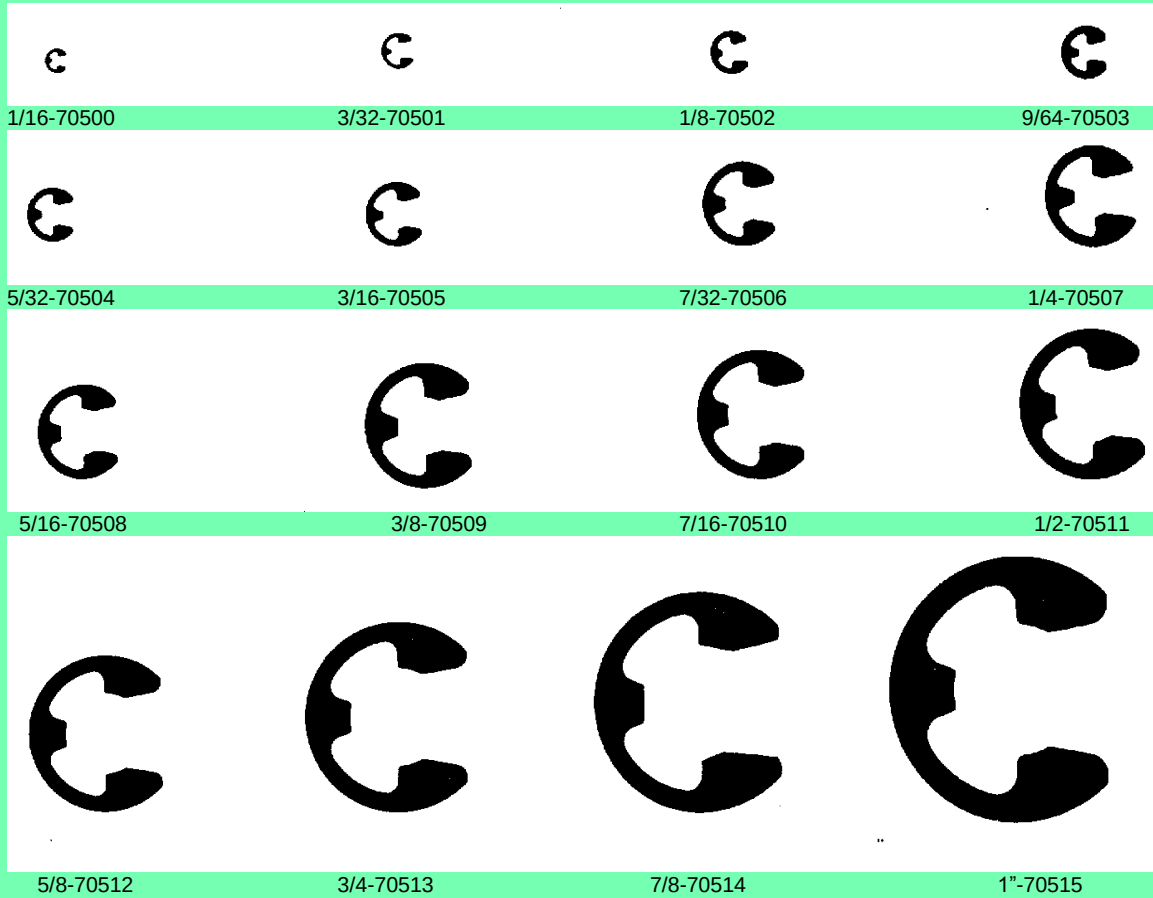
PART NUMBER 78520



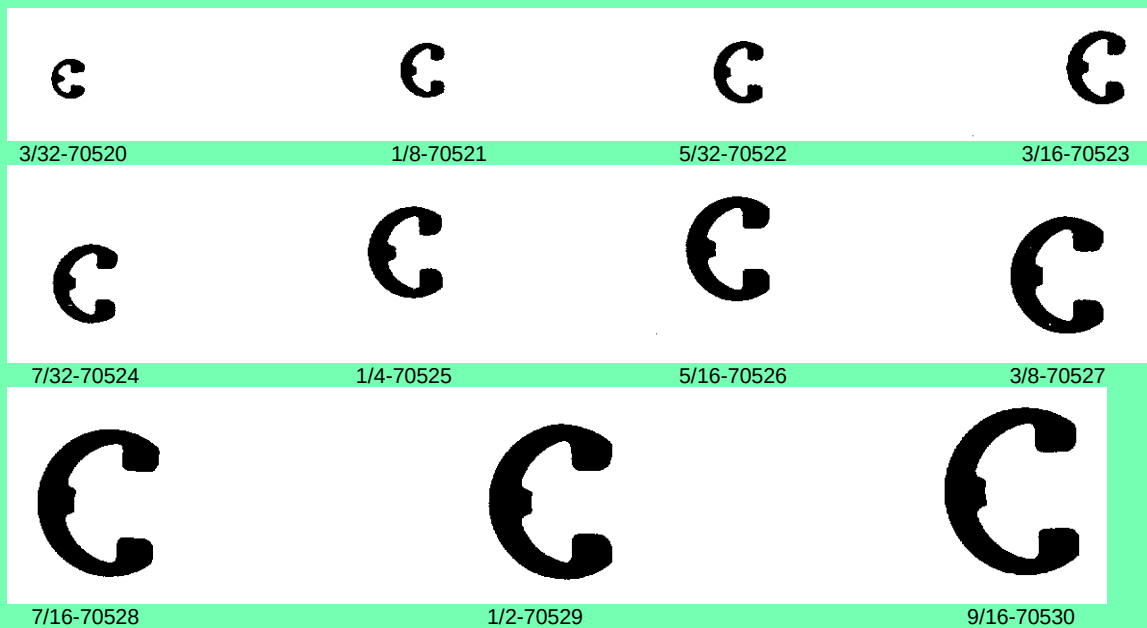


E-CLIPS

E-CLIPS STANDARD



REINFORCED

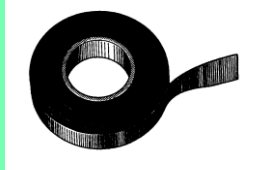




ELECTRICAL PRODUCTS

ELECTRICAL PRODUCTS

ELECTRICAL TAPE



SIZE	PART NUMBER	PACKAGE
3/4" X 66'	52429	10
3/4" X 66'	*524290	1

*PLUS

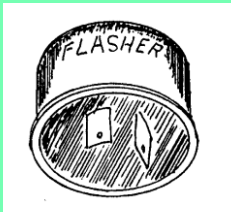
THIS IS AN EXCELLENT ALL WEATHER ELECTRICAL TAPE. IT IS FLAME RETARDANT, UL LISTED AND COMPLIES WITH C.S.A. STANDARDS. IT IS SUITABLE FOR USE AT NOT MORE THAN 600V AND AT NO MORE THAN 176°F.



BRUSH-ON ELECTRICAL TAPE

PART NUMBER D49412

FORMS A TOUGH, FLEXIBLE COATING THAT SEALS OUT MOISTURE AND CORROSION. ADHERES TO METAL, RUBBER, VINYL, AND PLASTIC. DRIES AT ROOM TEMPERATURE IN 5 MINUTES.



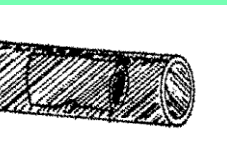
FLASHERS

STD NUMBER	PART NUMBER
550-3	52649
552-2	52650
536-2	52651

HEAT SHRINK TUBE

*FLEX TUBE, THICK TUBE WITH MELTABLE SEALANT

**PRIMARY TUBE, SINGLE WALL & SEALANT FREE



I.D.	COLOR		6" PART NUMBER	48" PART NUMBER
1/8	YELLOW	**SINGLE WALL	53350	533521
1/8	WHITE	**SINGLE WALL	53351	
3/16	BLACK	**SINGLE WALL	53352	
1/4	BLACK	*FLEX TUBE, DOUBLE WALL	533520	
3/16	RED	**SINGLE WALL	53353	533551
3/16	CLEAR	**SINGLE WALL	53354	
3/16	BLUE	**SINGLE WALL	53355	
3/16	GREEN	**SINGLE WALL	53356	533561
3/16	YELLOW	**SINGLE WALL	53357	
3/16	WHITE	**SINGLE WALL	53358	
1/4	BLACK	**SINGLE WALL	53359	
1/4	RED	**SINGLE WALL	53360	533591
1/4	BLUE	**SINGLE WALL	53362	
1/4	GREEN	**SINGLE WALL	53363	
1/4	YELLOW	**SINGLE WALL	53364	
1/4	WHITE	**SINGLE WALL	53365	533661
3/8	BLACK	**SINGLE WALL	53366	
3/8	RED	**SINGLE WALL	53367	
3/8	CLEAR	**SINGLE WALL	53368	
3/8	BLUE	**SINGLE WALL	53369	533671



ELECTRICAL PRODUCTS

HEAT SHRINK TUBE CON'T

I.D.	COLOR		6" PART NUMBER	48" PART NUMBER
3/8	GREEN	SINGLE WALL	53370	533706
3/8	BLACK	HEAVY DUTY	533705	
3/8	YELLOW	SINGLE WALL	53371	
1/2	BLACK	HEAVY DUTY	533715	533716
3/8	WHITE	SINGLE WALL	53372	533731
1/2	BLACK	SINGLE WALL	53373	
1/2	RED	SINGLE WALL	53374	533741
1/2	BLUE	SINGLE WALL	53376	
1/2	GREEN	SINGLE WALL	53377	
1/2	YELLOW	SINGLE WALL	53378	



ELECTRICAL PRODUCTS

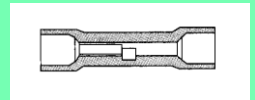
CONNECTORS

STEP DOWN BUTT CONNECTOR

THE STEP DOWN BUTT CONNECTOR IS USED WHEN 2 DIFFERENT SIZE WIRES ARE TO BE CONNECTED OR WHEN ONE WIRE IS TO BE JOINED AT ONE END AND TWO WIRES AT THE OTHER END. THE STEP DOWN (SMALLER) END IS COLOR CODED FOR QUICK INSTALLATION.

WIRE GAUGE	VINYL PART NUMBER	HEAT SEAL PART NUMBER	COLOR
14-22	42619*	42719**	BLUE/RED STRIPE
10-16	43619*	43719**	YELLOW/BLUE STRIPE
8-12	44619*	44719**	RED/YELLOW STRIPE

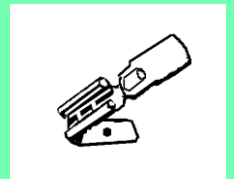
*PACKAGE IS 25 ** PACKAGE IS 10



MALE/FEMALE 1/4 PIGGY BACK QUICK SLIDES

22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
41338*	42338**	43338**

*PACKAGE IS 25 **PACKAGE IS 50



MALE/FEMALE HEAT SHRINK PIGGY BACK QUICK SLIDE

16-14 PART NUMBER	12-10 PART NUMBER
42438	43438

PACKAGE IS 25

3 WAY HEAT SHRINK TERMINAL

22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
41420	42420	43420

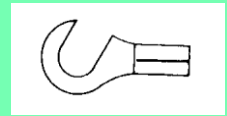
PACKAGE IS 25





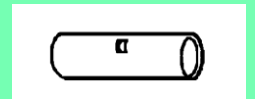
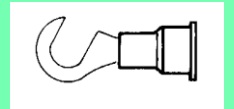
ELECTRICAL PRODUCTS

TERMINALS 22-18 AWG



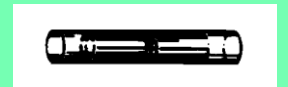
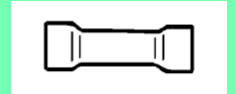
HOOK TERMINALS

STUD SIZE	NON- INSULATED	VINYL INSULATED	NYLON INSULATED	PACKAGE
6	41017	41217	41317	50
10	41018	41218	41318	50



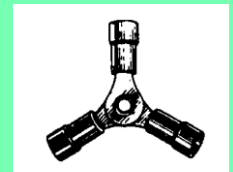
BUTT CONNECTORS

HIGH-TEMP SEAMLESS PART NUMBER	NON- INSULATED SEAMLESS PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
41019HT	41019	41219	41319	50



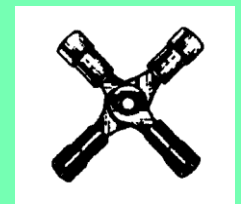
3 WAY CONNECTORS

NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
41020	41220	41320	25



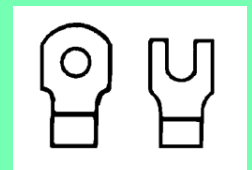
4 WAY CONNECTORS

NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
41021	41221	41321	25



FLAG TERMINALS

STUD SIZE	UNINSULATED CLOSED	UNINSULATED OPEN	PACKAGE
10	41022	41023	100





ELECTRICAL PRODUCTS

TERMINALS 22-18 AWG



FEMALE QUICK SLIDES

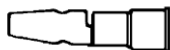
STUD SIZE	NON-INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	NYLON FULL INSULATED PART NUMBER
1/8	41029	41229	41329	
3/16	41030	41230	41330	413301
1/4	41031	41231	41331	41336

NON-INSULATED PART NUMBERS ARE 100 TO A PACKAGE.
VINYL OR NYLON INSULATED PART NUMBERS ARE 50 TO A PACKAGE.



UNIVERSAL FEMALE BULLETS

NYLON INSULATED PART NUMBER	PACKAGE
41327	50



UNIVERSAL MALE BULLETS

NYLON INSULATED PART NUMBER	PACKAGE
41325	50



FEMALE T-TAP

PART NUMBER	PACKAGE
52669	50



MALE QUICK SLIDES

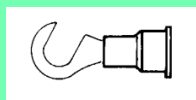
STUD SIZE	NYLON INSULATED PART NUMBER	NYLON FULL INSULATED PART NUMBER	PACKAGE
3/16	41332	41333	50
1/4	41334	41335	50



ELECTRICAL PRODUCTS

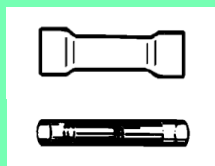
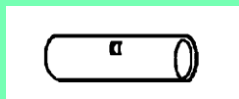
TERMINALS 16-14 AWG

HOOK TERMINALS



STUD SIZE	NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
6	42017	42217	42317	50
10	42018	42218	42318	50

BUTT CONNECTORS



UNINSULATED SEAMLESS PART NUMBER	NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
42019S	42019	42219	42319	50

3 WAY CONNECTORS



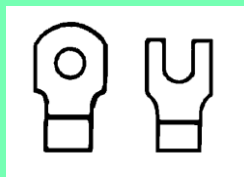
NON-INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
42020	42220	42320	25

4 WAY CONNECTORS



NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
42021	42221	42321	25

FLAG TERMINALS



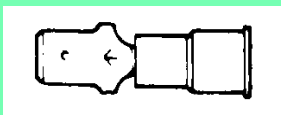
STUD SIZE	NON-INSULATED CLOSED PART NUMBER	NON-INSULATED OPEN PART NUMBER	PACKAGE
10	42022	42023	100



ELECTRICAL PRODUCTS

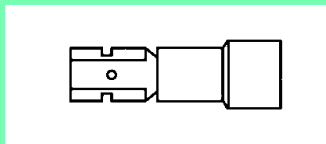
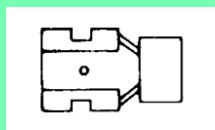
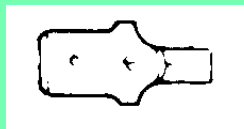
TERMINALS 16-14 AWG

MALE QUICK SLIDES



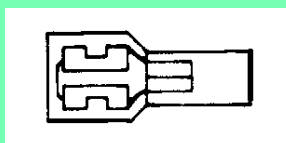
STUD SIZE	NON-INSULATED PARTNUMBER	VINYL INSULATED PARTNUMBER	NYLON INSULATED PARTNUMBER
3/16		42233	42333
1/4	42034	42234	42334

NON-INSULATED QUANTITY IS 100
INSULATED QUANTITY IS 50



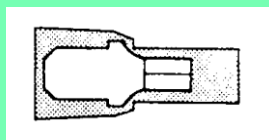
FLAG FEMALE QUICK SLIDES

STUD SIZE	NON-INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
3/16	42036	423361	100
1/4	42037	42337	50



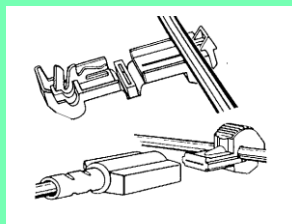
FULLY INSULATED FEMALE QUICK SLIDES

STUD SIZE	NYLON INSULATED PART NUMBER	PACKAGE
3/16	423301	50
1/4	42336	50



FULLY INSULATED MALE QUICK SLIDES

STUD SIZE	NYLON INSULATED PART NUMBER	PACKAGE
3/16	423331	50
1/4	42335	50



FEMALE T-TAP

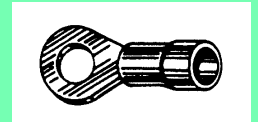
PART NUMBER	PACKAGE
52670	50



ELECTRICAL PRODUCTS

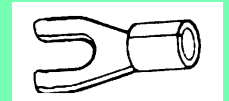
EYE TERMINALS

STUD SIZE	NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER
6 SM	43001	43201	43301
6 LG	43002	43202	43302
8	43003	43203	43303
10	43005	43205	43305
1/4	43006	43206	43306
5/16	43007	43207	43307
3/8	43008	43208	43308
7/16	43009	43209	43309
1/2	43010	43210	43310



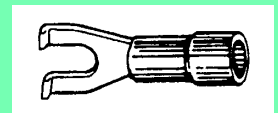
SPADE TERMINALS

STUD SIZE	NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER
6	43013	43213	43313
10	43014	43214	43314



FLANGED SPADE TERMINALS

STUD SIZE	NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER
6	43015	43215	43315
10	43016	43216	43316



PACKAGE QUANTITY ON ALL IS 50



ELECTRICAL PRODUCTS

TERMINALS 12-10 AWG

HOOK TERMINALS

STUD SIZE	NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
6	43017	43217	43317	50
10	43018	43218	43318	50

BUTT CONNECTORS

UNINSULATED SEAMLESS PART NUMBER	NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
43019S	43019	43219	43319	50

3 WAY CONNECTORS

NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
43020	43220	43320	25

4 WAY CONNECTORS

NON- INSULATED PART NUMBER	VINYL INSULATED PART NUMBER	NYLON INSULATED PART NUMBER	PACKAGE
43021	43221	43321	25

FLAG TERMINALS

STUD SIZE	NON- INSULATED CLOSED	NON- INSULATED OPEN	PACKAGE
10	43022	43023	100



ELECTRICAL PRODUCTS

TERMIANLS 6 AWG

EYE TERMINALS

STUD SIZE	NON-INSULATED PART NUMBER	VINYL INSULATED PART NUMBER
10	45005	45205
1/4	45006	45206
5/16	45007	45207
3/8	45008	45208
7/16	45009	45209
1/2	45010	45210
5/8	45011	45211
3/4	45012	45212

PACKAGE QUANTITY IS 25

BUTT CONNECTORS

NON-INSULATED PART NUMBER	VINYL INSULATED PART NUMBER
45019	45219

PACKAGE QUANTITY IS 25



ELECTRICAL PRODUCTS

TERMINALS 4 AWG

EYE TERMINALS

STUD SIZE	NON-INSULATED PART NUMBER	VINYL INSULATED PART NUMBER
1/4	46006	46206
5/16	46007	46207
3/8	46008	46208
7/16	46009	46209
1/2	46010	46210
5/8	46011	46211
3/4	46012	46212

PACKAGE QUANTITY IS 25

BUTT CONNECTORS

NON-INSULATED PART NUMBER	VINYL INSULATED PART NUMBER
46019	46219

PACKAGE QUANTITY IS 25

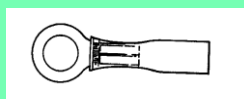


ELECTRICAL PRODUCTS

HEAT SEAL TERMINALS

COLOR CODED: RED, 22-18 GAUGE
BLUE, 16-14 GAUGE, YELLOW, 12-10 GAUGE
MELTABLE ADHESIVE SEALER

EYE TERMINALS



STUD SIZE	22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
6	41401	42401	43401
8	41403	42403	43403
10	41405	42405	43405
1/4	41406	42406	43406
5/16	41407	42407	43407
3/8	41408	42408	43408

BUTT CONNECTORS



22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
41419	42419	43419



1/4 MALE QUICK SLIDE CONNECTORS

22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
41435	42435	43435

1/4 FEMALE QUICK SLIDE CONNECTORS

22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
41436	42436	43436

PACKAGE ON ALL IS 25

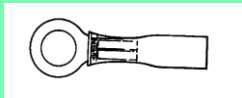


ELECTRICAL PRODUCTS

NO CRIMP HEAT SEAL SOLDER RING TERMINALS

COLOR CODED: RED, 22-18 GAUGE
BLUE, 16-14 GAUGE, YELLOW, 12-10 GAUGE
MELTABLE ADHESIVE SEALER

EYE TERMINALS



STUD SIZE	22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
10	41505	42505	43505
1/4	41506	42506	43506
3/8		42508	43508

BUTT CONNECTORS



22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
41519	42519	43519

1/4 MALE QUICK SLIDE CONNECTORS

22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
41535	42435	43435



FULL INSULATED 1/4 FEMALE QUICK SLIDE CONNECTORS

22-18 PART NUMBER	16-14 PART NUMBER	12-10 PART NUMBER
	42536	43536

PACKAGE ON ALL IS 25

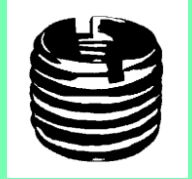


EZ-LOK THREAD INSERTS

EZ-LOK THREAD INSERTS

COARSE THREAD, HEAVY WALL

BRAVE #	EZ #	INTERNAL THREAD	DRILL	EXTERNAL THREAD	MIN LEN FULL THREAD	PACKAGE
35600	329-004	4-40	5/32	10-32	9/32	10
35601	329-006	6-32	#7	1/4-20	11/32	10
35602	329-008	8-32	F	5/16-18	7/16	10
35603	329-3	10-24	5/16	3/8-16	15/32	10
35604	329-4	1/4-20	23/64	7/16-14	1/2	10
35605	329-5	5/16-18	27/64	1/2-13	9/16	10
35606	329-6	3/8-16	31/64	9/16-12	19/32	10
35607	329-7	7/16-14	17/32	5/8-11	23/32	5
35608	329-8	1/2-13	21/32	3/4-10	3/4	5
35609	329-9	9/16-12	21/32	3/4-10	3/4	5
35610	329-10	5/8-11	49/64	7/8-9	13/16	5
35611	329-1018	5/8-11	49/64	7/8-9	1-1/4	5
35612	329-12	3/4-10	7/8	1-8	7/8	5
35613	329-14	7/8-9	1-7/64	1-1/4-7	1-1/4	5
35614	329-16	1-8	1-9/32	1-3/8-12	1-3/8	5



FINE THREAD, HEAVY WALL

35630	329-332	10-32	5/16	3/8-16	15/32	10
35631	329-428	1/4-28	23/64	7/16-14	1/2	10
35632	329-524	5/16-24	27/64	1/2-13	9/16	10
35633	329-624	3/8-24	31/64	9/16-12	19/32	10
35634	329-720	7/16-20	17/32	5/8-11	23/32	5
35635	329-820	1/2-20	21/32	3/4-10	3/4	5
35636	329-918	9/16-18	21/32	3/4-10	3/4	5
35637	329-10F	5/8-18	49/64	7/8-9	13/16	5
35638	3291216	3/4-16	7/8	1-8	7/8	5
35639	3291414	7/8-14	1-7/64	1-1/4-7	1-1/4	5
35640	3291614	1-14	1-9/32	1-3/8-12	1-3/8	5

COARSE THREAD EXTRA HEAVY WALL

35641	335-4	1/4-20	27/64	1/2-13	9/16	10
35642	335-5	5/16-18	31/64	9/16-12	19/32	10
35643	335-6	3/8-16	17/32	5/8-11	23/32	5
35644	335-8	1/2-13	49/64	7/8-9	13/16	5
35645	335-10	5/8-11	7/8	1-8	7/8	5



EZ-LOK THREAD INSERTS

STAINLESS STEEL INSERTS

COARSE THREAD

BRAVE #	EZ#	INTERNAL THREAD	DRILL	EXTERNAL THREAD	MIN LEN FULL THREAD	PACKAGE
35650	303-004	4-40	5/32	10-32	9/32	10
35651	303-006	6-32	7	1/4-20	11/32	10
35652	303-008	8-32	F	5/16-18	7/16	10
35653	303-3	10-24	5/16	3/8-16	15/32	10
35654	303-4	1/4-20	23/64	7/16-14	1/2	10
35655	303-5	5/16-18	27/64	1/2-13	9/16	10
35656	303-6	3/8-16	31/64	9/16-12	19/32	10
35657	303-7	7/16-14	17/32	5/8-11	23/32	5
35658	303-8	1/2-13	21/32	3/4-10	3/4	5
35659	303-10	5/8-11	49/64	7/8-9	13/16	5
35660	303-12	3/4-10	7/8	1-8	7/8	5
FINE THREAD						
35661	303-332	10-32	5/16	3/8-16	15/32	10
35662	303-428	1/4-28	23/64	7/16-14	1/2	10
35663	303-524	5/16-24	27/64	1/2-13	9/16	10
35664	303-624	3/8-24	31/64	9/16-12	19/32	10
35665	303-720	7/16-20	17/32	5/8-11	23/32	5
35666	303-820	1/2-20	21/32	3/4-10	3/4	5





EZ-LOK THREAD INSERTS

THREAD INSERT REPAIR KITS

COARSE THREAD

EZ-C108

35670

5 ITEMS; 46 PIECES
INTERNAL THREAD SIZES: 10-24, 1/4-20, 5/16-18, 3/8-16, 1/2-13

EZ-C816

35671

4 ITEMS; 22 PIECES
INTERNAL THREAD SIZES: 1/2-13, 5/8-11, 3/4-10, 1-8

FINE THREAD

EZ-F108

35672

5 ITEMS; 46 PIECES
INTERNAL THREAD SIZES: 10-32, 1/4-28, 5/16-24, 3/8-24, 1/2-20

STAINLESS STEEL

COARSE THREAD

EZ-C303

35674

5 ITEMS; 46 PIECES
INTERNAL THREAD SIZES: 10-24, 1/4-20, 5/16-18, 3/8-16, 1/2-13

FINE THREAD

EZ-F303

35675

5 ITEMS; 46 PIECES
INTERNAL THREAD SIZES: 10-32, 1/4-28, 5/16-24, 3/8-24, 1/2-20





FITTINGS

FITTINGS

GREASE

HEAVY DUTY GREASE GUN

PART NUMBER 70370

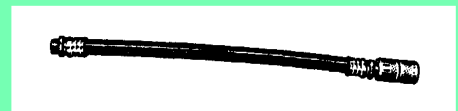
HYDRAULIC COUPLER

PART NUMBER 70400



12" WHIP HOSE

PART NUMBER 70401



STANDARD BUTTON HEADS

PIPE THREAD	PART NUMBER	PACKAGE
1/8	70405	25
1/4	70406	25



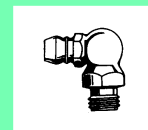
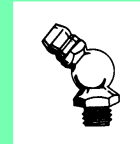
1/4-28 PIPE THREAD

LENGTH-ANGLE	PART NUMBER	PACKAGE
SHORT	70410	25
LONG	70411	25
45°	70412	25
90°	70413	25
1-3/32 O.L.	70414	2



1/8 PIPE THREAD

LENGTH-ANGLE	PART NUMBER	PACKAGE
SHORT	70420	25
30°	70421	25
45°	70422	25
67-1/2°	70423	25
90°	70424	25
1-1/4 O.L.	70425	25





FITTINGS

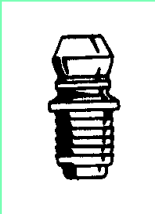
GREASE FITTINGS CON'T

1/4 PIPE THREAD



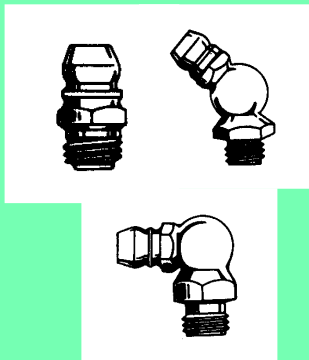
LENGTH-ANGLE	PART NUMBER	PACKAGE
STRAIGHT	70426	25
67-1/2°	70427	25

SPRING AND DRIVE FITTINGS



PIPE THREAD	PART NUMBER	PACKAGE
3/8-24	70430	25
5/16-24	70431	25
5/16	70432	25
3/16	70433	25
1/2	70434	25

METRIC GREASE FITTINGS



LENGTH-ANGLE	PART NUMBER	PACKAGE
M6-STRAIGHT	70441	25
M6-0.75 ST	70441FT	25
M6-45°	70442	25
M6-0.75 45°	70442FT	25
M6-90°	70443	25
M6-0.75 90°	70443FT	25
M8-STRAIGHT	70444	25
M8-45°	70445	25
M8-90°	70446	25
M10-STRAIGHT	70447	25
M10-90°	70448	25



FITTINGS

PIPE - BLACK MALLEABLE

90° ELBOWS



SIZE	PART NUMBER
1/8	61800
1/4	61801
3/8	61802
1/2	61803
3/4	61804
1	61805
1-1/4	61806
1-1/2	61807
2	61808

45° ELBOWS



SIZE	PART NUMBER
1/8	61811
1/4	61812
3/8	61813
1/2	61814
3/4	61815
1	61816
1-1/4	61817
1-1/2	61818
2	61819

90° STREET ELBOWS



SIZE	PART NUMBER
1/8	61820
1/4	61821
3/8	61822
1/2	61823
3/4	61824
1	61825
1-1/4	61826
1-1/2	61827
2	61828

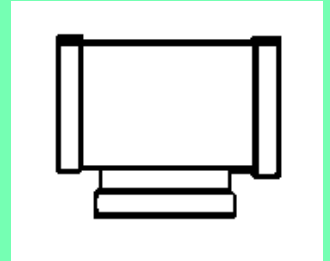
PACKAGE ON ALL IS 1



FITTINGS

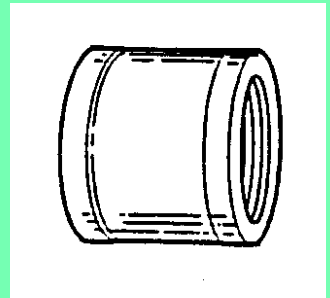
PIPE - BLACK MALLEABLE CON'T TEES

SIZE	PART NUMBER
1/8	61831
1/4	61832
3/8	61833
1/2	61834
3/4	61835
1	61836
1-1/4	61837
1-1/2	61838
2	61839



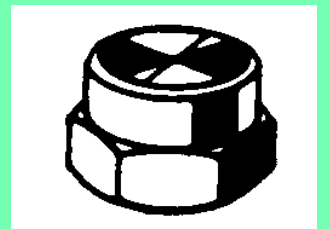
COUPLINGS

SIZE	PART NUMBER
1/8	61840
1/4	61841
3/8	61842
1/2	61843
3/4	61844
1	61845
1-1/4	61846
1-1/2	61847
2	61848



CAPS

SIZE	PART NUMBER
1/8	61851
1/4	61852
3/8	61853
1/2	61854
3/4	61855
1	61856
1-1/4	61857
1-1/2	61858
2	61859



PACKAGE ON ALL IS 1



FITTINGS

PIPE - BLACK MALLEABLE CON'T HEX REDUCING BUSHINGS

OUTSIDE PIPE THREADS	INSIDE PIPE THREADS	PART NUMBER
1/4	1/8	61900
3/8	1/8	61901
3/8	1/4	61902
1/2	1/8	61903
1/2	1/4	61904
1/2	3/8	61905
3/4	1/8	61906
3/4	1/4	61907
3/4	3/8	61908
3/4	1/2	61909
1	1/8	619091
1	1/4	619092
1	3/8	61910
1	1/2	61913
1	3/4	61914
1-1/4	1/2	619141
1-1/4	3/4	61915
1-1/4	1	61916
1-1/2	1	61917
1-1/2	1-1/4	61918
2	1	619181
2	1-1/4	61919
2	1-1/2	61920



REDUCING COUPLINGS

PIPE THREADS	PART NUMBER
1/4 – 1/8	61930
3/8 – 1/8	61931
3/8 – 1/4	61932
1/2 – 1/8	61933
1/2 – 1/4	61934
1/2 – 3/8	61935
3/4 – 3/8	61938
3/4 – 1/2	61939
1 – 3/8	61940
1 – 1/2	61943
1 – 3/4	61944
1-1/4 – 3/4	61945
1-1/4 – 1	61946
1-1/2 – 1/2	619466
1-1/2 – 1	61947
1-1/2 – 1-1/4	61948
2 – 1/2	619481
2 – 3/4	619482
2 – 1	619483
2 – 1-1/4	61949
2 – 1-1/2	61950
2-1/2 – 1	619501
2-1/2 – 1-1/4	61952
2-1/2 – 1-1/2	61953
2-1/2 – 2	61954



PACKAGE ON ALL IS 1

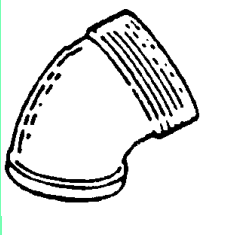


FITTINGS

PIPE - BLACK MALLEABLE CON'T

45° STREET ELBOW

FEMALE PIPE TO MALE PIPE. MALLEABLE IRON



PIPE THREAD	PART NUMBER
1/8	61780
1/4	61781
3/8	61782
1/2	61783
3/4	61784
1	61785

PACKAGE QUANTITY IS 1

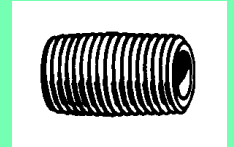


FITTINGS

BLACK PIPE NIPPLES

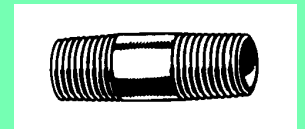
1/2" PIPE THREAD

LENGTH	PART NUMBER		LENGTH	PART NUMBER
CLOSE	61651		CLOSE	61668
1-1/2	61652		1-1/2	61669
2	61653		2	61670
2-1/2	61654		2-1/2	61671
3	61655		3	61672
3-1/2	61656		3-1/2	61673
4	61657		4	61674
4-1/2	61658		4-1/2	61675
5	61659		5	61676
5-1/2	61660		5-1/2	61677
6	61661		6	61678
7	61662		7	61679
8	61663		8	61680



1" PIPE THREAD

LENGTH	PART NUMBER		LENGTH	PART NUMBER
CLOSE	61685		CLOSE	61700
2	61686		2	61701
2-1/2	61687		2-1/2	61702
3	61688		3	61703
3-1/2	61689		3-1/2	61704
4	61690		4	61705
4-1/2	61691		4-1/2	61706
5	61692		5	61708
5-1/2	61693		5-1/2	61709
6	61694		6	61710
7	61695		7	61711
8	61696		8	61712



1-1/2" PIPE THREAD

LENGTH	PART NUMBER		LENGTH	PART NUMBER
CLOSE	61717		CLOSE	61734
2	61718		2-1/2	61735
2-1/2	61719		3	61736
3	61720		3-1/2	61737
3-1/2	61721		4	61738
4	61722		4-1/2	61739
4-1/2	61723		5	61740
5	61724		5-1/2	61741
5-1/2	61725		6	61742
6	61726		7	61743
7	61727		8	61744
8	61728			

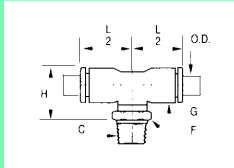
PACKAGE ON ALL IS 1



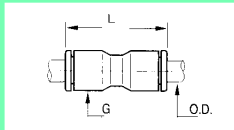
FITTINGS

LEGRIS

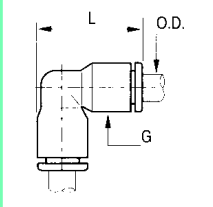
MALE BRANCH TEE



TUBE O.D.	C UNF OR NPT	LEGRIS NUMBER	PART NUMBER	H DIM	L/2 DIM
5/32	10-32	3108.04.20	64766	.71	.55
5/32	1/8	3108.04.11	64767	.61	.55
5/32	1/4	3108.04.14	64768	.63	.55
1/4	1/8	3108.56.11	64773	.67	.71
1/4	1/4	3108.56.14	64774	.63	.71
1/4	3/8	3108.56.18	64775	.65	.71
3/8	1/8	3108.60.11	64778	.99	1.04
3/8	1/4	3108.60.14	64779	.99	1.04
3/8	3/8	3108.60.18	64780	.95	1.04
3/8	1/2	3108.60.22	64781	.98	1.04



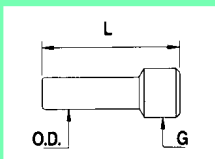
TUBE UNIONS, STRAIGHT, ELBOW, TEE



TUBE O.D.	STYLE	LEGRIS NUMBER	PART NUMBER	G OR H DIM	L DIM
5/32*	STRAIGHT	3106.04.00	64785	.33	.98
1/4		3106.56.00	64786	.43	1.16
3/8		3106.60.00	64787	.63	1.65
5/32*	ELBOW	3102.04.00	64791	.33	.75
1/4		3102.56.00	64792	.43	.93
3/8		3102.60.00	64793	.63	1.33
5/32*	TEE	3104.04.00	64795	.75	.57
1/4		3104.56.00	64796	.93	.73
3/8		3104.60.00	64797	1.33	1.015

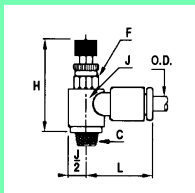
*5/32 IS THE SAME SIZE AS 4MM

PLUG



TUBE O.D.	LEGRIS NUMBER	PART NUMBER	G DIM	L DIM
5/32	3126.04.00	64800	.25	1.06
1/4	3126.56.00	64801	.38	1.06
3/8	3126.60.00	64802	.48	1.50

EXHAUST FLOW CONTROL VALVE



TUBE O.D.	C UNF OR NPT	LEGRIS NUMBER	PART NUMBER	J MAX DIM	L DIM
5/32	10-32	7660.04.20	64810	1.02	.67
1/4	10-32	7660.56.20	64811	1.02	.73
5/32	1/8	7665.04.11	64812	1.16	.71
1/4	1/8	7665.56.11	64813	1.16	.75
1/4	1/4	7665.56.14	64814	1.28	.77

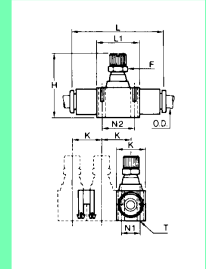


FITTINGS

LEGRIS CON'T

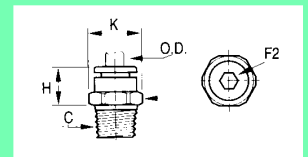
IN FLOW CONTROL VALVES

TUBE O.D.	LEGRIS NUMBER	PART NUMBER	L DIM	H DIM
5/32	7770.04.00	64820	1.52	1.31
1/4	7770.56.00	64821	2.11	1.74
3/8	7770.60.00	64822	2.96	2.38



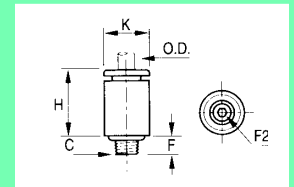
TUBE TO MALE PIPE

TUBE O.D.	C NPT	LEGRIS NUMBER	PART NUMBER	H DIM	K DIM
5/32	1/8	3175.04.11	64700	.34	.47
5/32	1/4	3175.04.14	64701	.28	.59
1/4	1/8	3175.56.11	64705	.34	.47
1/4	1/4	3175.56.14	64706	.37	.59
1/4	3/8	3175.56.18	64707	.30	.77
3/8	1/8	3175.60.11	64710	.894	.689
3/8	1/4	3175.60.14	64711	.807	.689
3/8	3/8	3175.60.18	64712	.689	.767
3/8	1/2	3175.60.22	64713	.610	.945



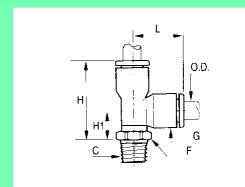
TUBE TO 10-32

TUBE O.D.	C UNF	LEGRIS NUMBER	PART NUMBER	H DIM	K DIM
5/32	10-32	3171.04.20	64720	.45	.55
1/4	10-32	3171.56.20	64721	.63	.42



MALE RUN TEE

TUBE O.D.	C NPT	LEGRIS NUMBER	PART NUMBER	H DIM	L DIM
5/32	10-32	3103.04.20	64725	1.02	.57
5/32	1/8	3103.04.11	64726	.93	.57
5/32	1/4	3103.04.14	64727	.94	.57
1/4	1/8	3103.56.11	64732	1.16	.71
1/4	1/4	3103.56.14	64733	1.12	.71
1/4	3/8	3103.56.18	64734	1.14	.71
3/8	1/8	3103.60.11	64737	1.63	1.04
3/8	1/4	3103.60.14	64738	1.63	1.04
3/8	3/8	3103.60.18	64739	1.60	1.04
3/8	1/2	3103.60.22	64740	1.63	1.04





FITTINGS

MEGA CRIMP G25-SERIES COUPLINGS

MALE PIPE

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-2MP	1/4	1/8-27	279010402
4G-4MP	1/4	1/4-18	279010404
4G-6MP	1/4	3/8-18	279010406
4G-8MP	1/4	1/2-14	279010408
6G-4MP	3/8	1/4-18	279010604
6G-6MP	3/8	3/8-18	279010606
6G-8MP	3/8	1/2-14	279010608
8G-6MP	1/2	3/8-18	279010806
8G-8MP	1/2	1/2-14	279010808
8G-12MP	1/2	3/4-14	279010812
10G-8MP	5/8	1/2-14	279011008
10G-12MP	5/8	3/4-14	279011012
12G-8MP	3/4	1/2-14	279011208
12G-12MP	3/4	3/4-14	279011212
12G-16MP	3/4	1-11 1/2	279011216
16G-12MP	1	3/4-14	279011612
16G-16MP	1	1-11 1/2	279011616
20G-20MP	1-1/4	1-1/4-11 1/2	279012020

MALE PIPE SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4MPX	1/4	1/4-18	279020404
4G-6MPX	1/4	3/8-18	279020406
4G-8MPX	1/4	1/2-14	279020408
6G-4MPX	3/8	1/4-18	279020604
6G-6MPX	3/8	3/8-18	279020606
6G-8MPX	3/8	1/2-14	279020608
8G-6MPX	1/2	3/8-18	279020806
8G-8MPX	1/2	1/2-14	279020808
10G-12MPX	5/8	3/4-14	279021012
12G-8MPX	3/4	1/2-14	279021208
12G-12MPX	3/4	3/4-14	279021212
16G-16MPX	1	1-11 1/2	279021616
20G-20MPX	1-1/4	1-1/4-11 1/2	279022020

MALE PIPE SWIVEL 90° BLOCK

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4MPX90	1/4	1/4-18	279030404
4G-6MPX90	1/4	3/8-18	279030406
6G-4MPX90	3/8	1/4-18	279030604
6G-6MPX90	3/8	3/8-18	279030606
6G-8MPX90	3/8	1/2-14	279030608
8G-8MPX90	1/2	1/2-14	279030808
12G-12MPX90	3/4	3/4-14	279031212

PACKAGE ON ALL IS 1

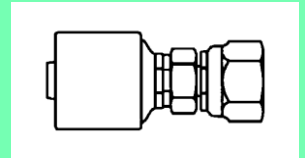


FITTINGS

MEGA CRIMP G25-SERIES COUPLINGS CON'T

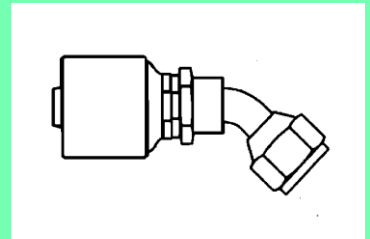
FEMALE JIC (37° FLARE SWIVEL)

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FJX	1/4	7/16-20	279110404
4G-5FJX	1/4	1/2-20	279110405
4G-6FJX	1/4	9/16-18	279110406
5G-5FJX	5/16	1/2-20	279110505
6G-5FJX	3/8	1/2-20	279110605
6G-6FJX	3/8	9/16-18	279110606
6G-8FJX	3/8	3/4-16	279110608
6G-10FJX	3/8	7/8-14	279110610
8G-6FJX	1/2	9/16-18	279110806
8G-8FJX	1/2	3/4-16	279110808
8G-10FJX	1/2	7/8-14	279110810
8G-12FJX	1/2	1-1/16-12	279110812
10G-8FJX	5/8	3/4-16	279111008
10G-10FJX	5/8	7/8-14	279111010
10G-12FJX	5/8	1-1/16-12	279111012
12G-10FJX	3/4	7/8-14	279111210
12G-12FJX	3/4	1-1/16-12	279111212
12G-14FJX	3/4	1-3/16-12	279111214
12G-16FJX	3/4	1-5/16-12	279111216
16G-12FJX	1	1-1/16-12	279111612
16G-16FJX	1	1-5/16-12	279111616
16G-20FJX	1	1-5/8-12	279111620
20G-20FJX	1-1/4	1-5/8-12	279112020



FEMALE JIC 45°

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FJX45	1/4	7/16-20	279120404
4G-6FJX45	1/4	9/16-18	279120406
6G-6FJX45	3/8	9/16-18	279120606
6G-8FJX45	3/8	3/4-16	279120608
8G-8FJX45	1/2	3/4-16	279120808
8G-10FJX45	1/2	7/8-14	279120810
10G-10FJX45	5/8	7/8-14	279121010
10G-12FJX45	5/8	1-1/16-12	279121012
12G-12FJX45	3/4	1-1/16-12	279121212
16G-16FJX45	1	1-5/16-12	279121616



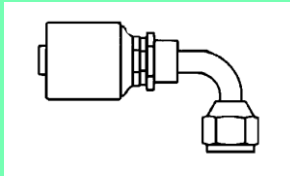
PACKAGE QUANTITY ON ALL IS 1



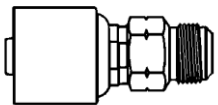
FITTINGS

MEGA CRIMP G25-SERIES COUPLINGS CON'T

FEMALE JIC 90°



DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FJX90S	1/4	7/16-20	279130404
4G-5FJX90S	1/4	1/2-20	279130405
4G-6FJX90S	1/4	9/16-18	279130406
6G-6FJX90S	3/8	9/16-18	279130606
6G-8FJX90S	3/8	3/4-16	279130608
8G-8FJX90S	1/2	3/4-16	279130808
8G-10FJX90S	1/2	7/8-14	279130810
10G-10FJX90S	5/8	7/8-14	279131010
10G-12FJX90S	5/8	1-1/16-12	279131012
12G-12FJX90S	3/4	1-1/16-12	279131212
16G-16FJX90S	1	1-5/16-12	279131616
4G-4FJX90M	1/4	7/16-20	279140404
4G-5FJX90M	1/4	1/2-20	279140405
4G-6FJX90M	1/4	9/16-18	279140406
6G-6FJX90M	3/8	9/16-18	279140606
6G-8FJX90M	3/8	3/4-16	279140608
8G-8FJX90M	1/2	3/4-16	279140808
8G-10FJX90M	1/2	7/8-14	279140810
10G-10FJX90M	5/8	7/8-14	279141010
12G-12FJX90M	3/4	1-1/16-12	279141212
16G-16FJX90M	1	1-5/16-12	279141616
20G-20FJX90M	1-1/4	1-5/8-12	279142020
4G-4FJX90L	1/4	7/16-20	279150404
6G-6FJX90L	3/8	9/16-18	279150606
6G-8FJX90L	3/8	3/4-16	279150608
8G-8FJX90L	1/2	3/4-16	279150808
8G-10FJX90L	1/2	7/8-14	279150810
12G-12FJX90L	3/4	1-1/16-12	279151212
16G-16FJX90L	1	1-5/16-12	279151616



MALE SAE (45° FLARE)

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4MS	1/4	7/16-20	279160404
6G-6MS	3/8	5/8-18	279160606
8G-8MS	1/2	3/4-16	279160808
8G-10MS	1/2	7/8-14	279160810

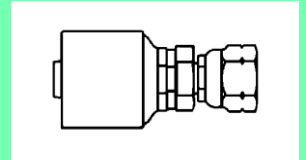


FITTINGS

MEGA CRIMP G25-SERIES COUPLINGS CON'T

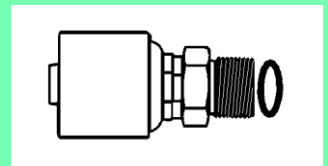
FEMALE SAE (45° FLARE) SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FSX	1/4	7/16-20	279170404
4G-5FSX	1/4	1/2-20	279170405
4G-6FSX	1/4	5/8-18	279170406
6G-6FSX	3/8	5/8-18	279170606
6G-8FSX	3/8	3/4-16	279170608
8G-8FSX	1/2	3/4-16	279170808
8G-10FSX	1/2	7/8-14	279170810
12G-12FSX	3/4	1-1/16-14	279171212



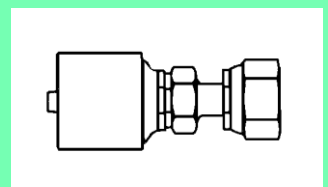
MALE FLAT FACED O-RING

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4MFFOR	1/4	9/16-18	279180404
4G-6MFFOR	1/4	11/16-16	279180406
6G-6MFFOR	3/8	11-16-16	279180606
6G-8MFFOR	3/8	13/16-16	279180608
8G-8MFFOR	1/2	13/16-16	279180808
8G-10MFFOR	1/2	1-14	279180810
10G-10MFFOR	5/8	1-14	279181010
12G-12MFFOR	3/4	1-3/16-12	279181212
12G-16MFFOR	3/4	1-7/8-12	279181216
16G-16MFFOR	1	1-7/16-12	279181616



FEMALE FLAT O-RING SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FFORX	1/4	9/16-18	279190404
4G-6FFORX	1/4	11/16-16	279190406
6G-6FFORX	3/8	11/16-16	279190606
6G-8FFORX	3/8	13/16-16	279190608
8G-6FFORX	1/2	11/16-16	279190806
8G-8FFORX	1/2	13/16-16	279190808
8G-10FFORX	1/2	1-14	279190810
10G-10FFORX	5/8	1-14	279191010
10G-12FFORX	5/8	1-3/16-12	279191012
12G-10FFORX	3/4	1-14	279191210
12G-12FFORX	3/4	1-3/16-12	279191212
12G-16FFORX	3/4	1-7/16-12	279191216
16G-16FFORX	1	1-7/16-12	279191616

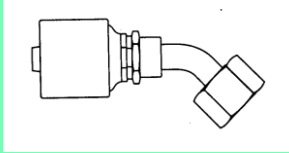




FITTINGS

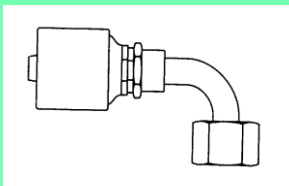
MEGA CRIMP G25-SERIES COUPLINGS CON'T

FEMALE FLAT FACED O-RING SWIVEL 45°



MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FFORX45	1/4	9/16-18	279200404
4G-6FFORX45	1/4	11/16-16	279200406
6G-6FFORX45	3/8	11/16-16	279200606
6G-8FFORX45	3/8	13/16-16	279200608
8G-8FFORX45	1/2	13/16-16	279200808
8G-10FFORX45	1/2	13/16-16	279200810
10G-10FFORX45	5/8	1-14	279201010
10G-12FFORX45	5/8	1 3/16-16	279201012
12G-12FFORX45	3/4	1 3/16-16	279201212
12G-16FFORX45	3/4	1 7/16-12	279201216
16G-16FFORX45	1	1 7/16-12	279201616

FEMALE FLAT FACED O-RING SWIVEL 90°



MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FFORX90S	1/4	9/16-18	279210404
4G-6FFORX90S	1/4	11/16-16	279210406
6G-6FFORX90S	3/8	11/16-16	279210606
6G-8FFORX90S	3/8	13/16-16	279210608
8G-8FFORX90S	1/2	13/16-16	279210808
8G-10FFORX90S	1/2	1-14	279210810
10G10FFORX90S	5/8	1-14	279211010
10G-12FFORX90S	5/8	1 3/16-12	279211012
12G-12FFORX90S	3/4	1 3/16-12	279211212
12G-16FFORX90S	3/4	1 7/16-12	279211216
16G-16FFORX90S	1	1 7/16-12	279211616
4G-4FFORX90M	1/4	9/16-18	279220404
4G-6FFORX90M	1/4	11/16-16	279220406
6G-6FFORX90M	3/8	11/16-16	279220606
6G-8FFORX90M	3/8	1-14	279220608
8G-8FFORX90M	1/2	13/16-16	279220808
8G-10FFORX90M	1/2	1-14	279220810
10G-10FFORX90M	5/8	1-14	279221010
12G-12FFORX90M	3/4	1 3/16-12	279221212
16G-16FFORX90M	1	1 7/16-12	279221616
4G-4FFORX90L	1/4	9/16-18	279230404
4G-6FFORX90L	1/4	11/16-16	279230406
6G-6FFORX90L	3/8	11/16-16	279230606
6G-8FFORX90L	3/8	13/16-16	279230608
8G-8FFORX90L	1/2	13/16-16	279230808
8G-10FFORX90L	1/2	1-14	279230810
10G-10FFORX90L	5/8	1-14	279231010
12G-12FFORX90L	3/4	1 3/16-12	279231212

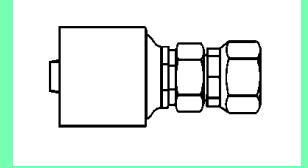


FITTINGS

MEGA CRIMP G25-SERIES COUPLINGS CON'T

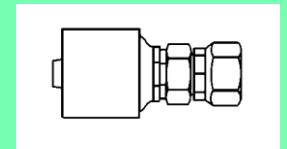
FEMALE DIN 24° CONE SWIVEL W / O-RING

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-6FDLORX	1/4	M12 X 1.5	279240406
4G-8FDLORX	1/4	M14 X 1.5	279240408
4G-10FDLORX	1/4	M16 X 1.5	279240410
4G-12FDLORX	1/4	M18 X 1.5	279240412
6G-10FDLORX	3/8	M16 X 1.5	279240610
6G-12FDLORX	3/8	M18 X 1.5	279240612
8G-15FDLORX	1/2	M22 X 1.5	279240815
10G-18FDLORX	5/8	M26 X 1.5	279241018
12G-22FDLORX	3/4	M30 X 2.0	279241222
16G-28FDLORX	1	M36 X 2.0	279241628
20G-35FDLORX	1-1/4	M45 X 2.0	279242035



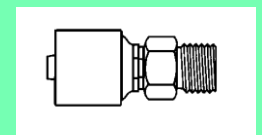
FEMALE DIN 24° CONE SWIVEL-HEAVY SERIES W / O-RING

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-8FDHORX	1/4	M16 X 1.5	279250408
4G-10FDHORX	1/4	M18 X 1.5	279250410
6G-10FDHORX	3/8	M18 X 1.5	279250610
6G-12FDHORX	3/8	M20 X 1.5	279250612
6G-14FDHORX	3/8	M22 X 1.5	279250614
8G-12FDHORX	1/2	M20 X 1.5	279250812
8G-16FDHORX	1/2	M24 X 1.5	279250816
10G-20FDHORX	5/8	M30 X 1.5	279251020
12G-20FDHORX	3/4	M30 X 2.0	279251220
12G-25FDHORX	3/4	M36 X 2.0	279251225
16G-25FDHORX	1	M36 X 2.0	279251625
16G-30FDHORX	1	M42 X 2.0	279251630



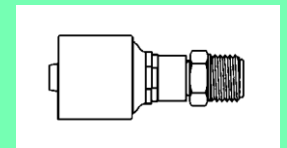
MALE DIN 24° CONE-LIGHT SERIES

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-8MDL	1/4	M14 X 1.5	279260408
4G-10MDL	1/4	M16 X 1.5	279260410
6G-10MDL	3/8	M16 X 1.5	279260610
6G-12MDL	3/8	M18 X 1.5	279260612
8G-15MDL	1/2	M22 X 1.5	279260815
10G-18MDL	5/8	M26 X 1.5	279261018
12G-22MDL	3/4	M30 X 2.0	279261222



SAE MALE INVERTED SWIVEL

DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4MIX	1/4	7/16-24	279270404
4G-5MIX	1/4	1/2-20	279270405
6G-5MIX	3/8	1/2-20	279270605
6G-6MIX	3/8	5/8-18	279270606
6G-7MIX	3/8	11/16-18	279270607
8G-6MIX	1/2	3/4-16	279270806
8G-8MIX	1/2	3/4-16	279270808

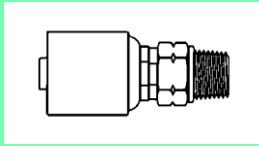




FITTINGS

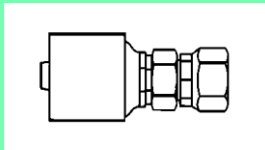
MEGA CRIMP G25-SERIES COUPLINGS CON'T

MALE BRITISH STANDARD PIPE TAPERED



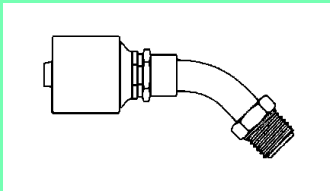
DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4MBSPT	1/4	1/4-19	279280404
6G-6MBSPT	3/8	3/8-19	279280606
8G-8MBSPT	1/2	1/2-14	279280808
12G-12MBSPT	3/4	3/4-14	279281212
16G-16MBSPT	1	1-11	279281616

FEMALE BRITISH STANDARD PARALLEL PIPE O-RING SWIVEL



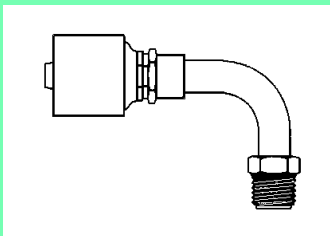
DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4FBSPORX	1/4	1/4-19	279290404
4G-6FBSPORX	1/4	3/8-19	279290406
5G-6FBSPORX	5/16	3/8-19	279290506
5G-8FBSPORX	5/16	1/2-14	279290508
6G-6FBSPORX	3/8	3/8-19	279290606
6G-8FBSPORX	3/8	1/2-14	297290608
8G-6FBSPORX	1/2	3/8-19	279290806
8G-8FBSPORX	1/2	1/2-14	279290808
8G-10FBSPORX	1/2	3/4-14	279290810
10G-10FBSPORX	5/8	3/4-14	279291010
10G-12FBSPORX	5/8	3/4-14	279291012
12G-12FBSPORX	3/4	3/4-14	279291212
12G-16FBSPORX	3/4	1-11	279291216
16G-16FBSPORX	1	1-11	279291616
20G-20FBSPORX	1-1/4	1-1/4-11	279292020

SAE MALE INVERTED SWIVEL 45°



DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
6G-4MIX45	3/8	7/16-24	279300604
6G-5MIX45	3/8	1/2-20	279300605
6G-6MIX45	3/8	5/8-18	279300606
6G-7MIX45	3/8	11/16-18	279300607

SAE MALE INVERTED SWIVEL 90°



DESCRIPTION	HOSE I.D.	THREAD SIZE	PART NUMBER
4G-4MIX90	1/4	7/16-24	279310404
4G-5MIX90	1/4	1/2-20	279310405
6G-4MIX90	3/8	7/16-24	279310604
6G-5MIX90	3/8	1/2-20	279310605
6G-6MIX90	3/8	5/8-18	279310606
6G-7MIX90	3/8	11/16-18	279310607
8G-8MIX90	1/2	3/4-16	279310808

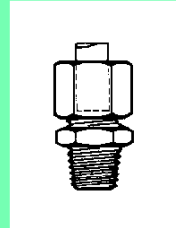


FITTINGS

METRIC COMPRESSION

MALE BSPT*

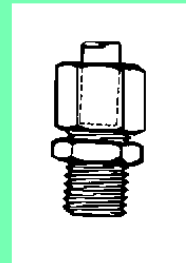
TUBE O.D.	MALE THREAD	PART NUMBER
M4	1/8	64840
M5	1/8	64841
M6	1/8	64843
M8	1/8	64846
M10	1/8	64849



*BRITISH STANDARD PIPE TAPER

TUBE TO MALE METRIC THREAD

TUBE O.D.	MALE THREAD	PART NUMBER
M4	M7 X 1.0	64860
M4	M8 X 1.0	64861
M5	M8 X 1.0	64862
M6	M10 X 1.0	64864
M8	M12 X 1.0	64866
M10	M14 X 1.25	64868



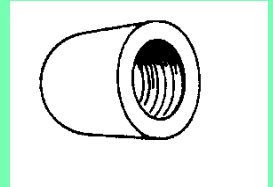


FITTINGS

POWER CRIMP FERRULES

ALUMINUM AND STEEL

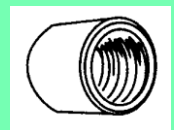
ALUMINUM FERRULES		STEEL FERRULES		HOSE I.D.
MFG NUMBER	PART NUMBER	MFG'S NUMBER	PART NUMBER	
3PC1FA	26303	3PC1FS	26503	3/16
4PC1FA	26304	4PC1FS	26504	1/4
5PC1FA	26305	5PC1FS	26505	5/16
6PC1FA	26306	6PC1FS	26506	3/8
8PC1FA	26308	8PC1FS	26508	1/2
10PC1FA	26310	10PC1FS	26510	5/8
12PC1FA	26312	12PC1FS	26512	3/4
16PC1FA	26316	16PC1FS	26516	1
20PC1FA	26320	20PC1FS	26520	1 1/4



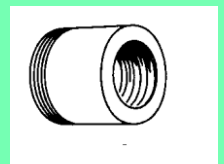
STEEL FERRULES		
MFG NUMBER	PART NUMBER	HOSE I.D.
3PC2F-2	26403	3/16
4PC2F-2	26404	1/4
5PC2F-2	26405	5/16
6PC2F-2	26406	3/8
8PC2F-2	26408	1/2
10PC2F-2	26410	5/8
12PC2F-2	26412	3/4
12PC2F-4	264124	3/4
16PC2F-2	26416	1
20PC2F-2	26420	1 1/4

FOR USE WITH PCS STEMS

STEEL FERRULES		
MFG NUMBER	PART NUMBER	HOSE I.D.
12PCS1F	261212	3/4
16PCS1F	261216	1
20PCS1F	261220	1 1/4
24PCS1F	261224	1 1/2
32PCS1F-G3K	261232	2



STEEL FERRULES		
MFG NUMBER	PART NUMBER	HOSE I.D.
12GS1F-4	26212	3/4
16GS1F-4	26216	1
20GS1F-4	26220	1-1/4



PACKAGE ON ALL IS 1



FITTINGS

POWER CRIMP FERRULES CON'T

FEMALE PIPE SOLID

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
3-2 FP	3/16	1/8-27	27004	10
4-2 FP	1/4	1/8-27	27019	10
4-4 FP	1/4	1/4-18	27020	10
4-6 FP	1/4	3/8-18	27021	10
6-4 FP	3/8	1/4-18	27095	5
6-6 FP	3/8	3/8-18	27096	5
6-8 FP	3/8	1/2-14	27097	5
8-6 FP	1/2	3/8-18	27168	5
8-8 FP	1/2	1/2-14	27169	5
12-12 FP	3/4	3/4-14	27264	5

NPTF SWIVEL MALE 90°

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-4MPX90	1/4	1/4-18	27022	10
4-6MPX90	1/4	3/8-18	27023	10
6-4MPX90	3/8	1/4-18	27098	5
6-6MPX90	3/8	3/8-18	27099	5
6-8MPX90	3/8	1/2-14	27100	5
8-8MPX90	1/2	1/2-14	27170	5
12-12MPX90	3/4	3/4-14	27265	5

MALE SAE FLARE

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-4MS	1/4	7/16-20	27030	10
4-5MS	1/4	1/2-20	27031	10
6-6MS	3/8	5/8-18	27107	5
6-8MS	3/8	3/4-16	27108	5
8-8MS	1/2	3/4-16	27177	5
8-10MS	1/2	7/8-14	27178	5
12-12MS	3/4	1 1/16-14	27273	5



FITTINGS

POWER CRIMP FERRULES CON'T

FEMALE SAE SWIVEL

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-4FSX	1/4	7/16-20	27032	10
4-5FSX	1/4	1/2-20	27033	10
4-6FSX	1/4	5/8-18	27034	10
6-6FSX	3/8	5/8-18	27109	5
6-8FSX	3/8	3/4-16	27110	5
8-8FSX	1/2	3/4-16	27179	5
8-10FSX	1/2	7/8-14	27180	5
12-12FSX	3/4	1 1/16-14	27274	5

MALE JIC RIGID

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
3-4MJ	3/16	7/16-20	27005	10
4-4MJ	1/4	7/16-20	27024	10
4-5MJ	1/4	1/2-20	27025	10
4-6MJ	1/4	9/16-18	27026	10
5-6MJ	5/16	9/16-18	27077	10
6-6 MJ	3/8	9/16-18	27101	5
6-8MJ	3/8	3/4-16	27102	5
6-10MJ	3/8	7/8-14	27103	5
8-8MJ	1/2	3/4-16	27171	5
8-10MJ	1/2	7/8-14	27172	5
8-12MJ	1/2	1 1/16-12	27173	5
10-8MJ	1/2	3/4-16	27236	5
10-10MJ	5/8	7/8-14	27237	5
10-12MJ	5/8	1 1/16-12	27238	5
12-12MJ	3/4	1 1/16-12	27266	5
12-14MJ	3/4	1 3/16-12	27267	5
12-16MJ	3/4	1 5/16-12	27268	5
16-16MJ	1	1 5/16-12	27320	2
16-20MJ	1	1 5/8-12	27321	2
20-20MJ	1 1/4	1 5/8-12	27358	1
20-24MJ	1 1/4	1 7/8-12	27359	1

PLEASE NOTE: JIC MALE AND SAE FEMALE ARE NOT COMPATIBLE.
THE SEAT (SEALING SURFACE) ON JIC IS 37° AND 45° ON SAE



FITTINGS

POWER CRIMP FERRULES CON'T

FEMALE FLAT FACE O-RING 45° BENT TUBE

MFG NUMBER	PART NUMBER	HOSE I.D.	THREAD SIZE
4C2-4FFORX45	2706945	1/4	9/16-18
4C2-6FFORX45	2707045	1/4	11/16-16
6C2-8FFORX45	2715745	3/8	13/16-16
6C2-6FFORX45	2715845	3/8	11/16-16
8C2-8FFORX45	2722445	1/2	13/16-16
8C2-10FFORX45	2722545	1/2	1-14
10C2-10FFORX45	27258145	5/8	1-14
10C2-12FFORX45	27258245	5/8	1 3/16-12
12C2-16FFORX45	27313145	3/4	1 7/16-12
12C2-12FFORX45	2731345	3/4	1 3/16-12
16C2-16FFORX45	2735545	1	1 7/16-12
20C2-20FFORX45	2737845	1 1/4	1 11/16-12

FEMALE FLAT FACE O-RING 90° BENT TUBE

MFG NUMBER	PART NUMBER	HOSE I.D.	THREAD SIZE
4C2-4FFORX90M	2706940M	1/4	9/16-18
4C2-4FFORX90L	2706990L	1/4	9/16-18
4C2-4FFORX90S	2706990S	1/4	9/16-18
4C2-8FFORX90M	27070190M	1/4	13/16-16
4C2-6FFORX90L	2707090L	1/4	11/16-16
4C2-6FFORX90M	2707090M	1/4	11/16-16
4C2-6FFORX90S	2707090S	1/4	11/16-16
6C2-8FFORX90L	2715790L	3/8	13/16-16
6C2-8FFORX90M	2715790M	3/8	13/16-16
6C2-8FFORX90S	2715790S	3/8	13/16-16
6C2-6FFORX90L	27158190L	3/8	11/16-16
6C2-6FFORX90M	27158190M	3/8	11/16-16
6C2-6FFORX90S	27158190S	3/8	11/16-16
6C2-4FFORX90S	2715890S	3/8	9/16-18
8C2-6FFORX90S	2722390S	1/2	11/16-16
8C2-8FFORX90L	2722490L	1/2	13/16-16
8C2-8FFORX90M	2722490M	1/2	13/16-16
8C2-10FFORX90L	2722590L	1/2	1-14
8C2-10FFORX90M	2722590M	1/2	1-14
8C2-10FFORX90S	2722590S	1/2	1-14
10C2-10FFORX90L	27258190L	5/8	1-14
10C2-10FFORX90S	27258190S	5/8	1-14
10C2-12FFORX90S	27258290S	5/8	1 3/16-12
12C2-16FFORX90L	27313190L	3/4	1 7/16-12
12C2-16FFORX90S	27313190S	3/4	1 7/16-12
12C2-12FFORX90L	2731390L	3/4	1 3/16-12
12C2-12FFORX90M	2731390M	3/4	1 3/16-12
12C2-12FFORX90S	2731390S	3/4	1 3/16-12
16C2-16FFORX90L	2735590L	1	1 7/16-12
16C2-16FFORX90M	2735590M	1	1 7/16-12
16C2-16FFORX90S	2735590S	1	1 7/16-12
20C2-20FFORX90L	2737890L	1 1/4	1 11/16-12
20C2-20FFORX90S	2737890S	1 1/4	1 11/16-12
20C2-20FFORX90M	2737890M	1 1/4	1 11/16-12

ALL PACKAGE QUANTITIES ARE 1



FITTINGS

POWER CRIMP FERRULES CON'T

O-RING FLANGE STRAIGHT

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-8FL	1/2	1/2	1 3/16	27210	5
8-12FL	1/2	3/4	1 1/2	27211	5
12-12FL	3/4	3/4	1 1/2	27292	5
12-16FL	3/4	1	1 3/4	27293	5
16-16FL	1	1	1 3/4	27336	2
16-20FL	1	1 1/4	2	27337	2
20-20FL	1 1/4	1 1/4	2	27363	2
20-24FL	1 1/4	1 1/2	2 3/8	27364	2

O-RING FLANGE 22° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
12-12FL22	3/4	3/4	1 1/2	27294	5
12-16FL22	3/4	1	1 3/4	27295	5
16-16FL22	1	1	1 3/4	27338	2
16-20FL22	1	1 1/4	2	27339	2
20-20FL22	1 1/4	1 1/4	2	27365	2
20-24FL22	1 1/4	1 1/2	2 3/8	27366	2

O-RING FLANGE 30° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
12-12FL30	3/4	3/4	1 1/2	27296	5
12-16FL30	3/4	1	1 3/4	27297	5
16-16FL30	1	1	1 3/4	27340	2
16-20FL30	1	1 1/4	2	27341	2
20-20FL30	1 1/4	1 1/4	2	27367	2
20-24FL30	1 1/4	1 1/2	2 3/8	27368	2

O-RING FLANGE 45° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-8FL45	1/2	1/2	1 3/16	27212	5
8-12FL45	1/2	3/4	1 1/2	27213	5
12-12FL45	3/4	3/4	1 1/2	27298	5
12-16FL45	3/4	1	1 3/4	27299	5
16-16FL45	1	1	1 3/4	27342	2
16-20FL45	1	1 1/4	2	27343	2
20-20FL45	1 1/4	1 1/4	2	27369	2
20-24FL45	1 1/4	1 1/2	2 3/8	27370	2



FITTINGS

POWER CRIMP FERRULES CON'T

O-RING FLANGE 60° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-12FL60	1/2	3/4	1 1/2	27214	5
12-12FL60	3/4	3/4	1 1/2	27300	5
12-16FL60	3/4	1	1 3/4	27301	5
16-16FL60	1	1	1 3/4	27344	2
16-20FL60	1	1 1/4	2	27345	2
20-20FL60	1 1/4	1 1/4	2	27371	1
20-24FL60	1 1/4	1 1/2	2 3/8	27372	1

O-RING FLANGE 67° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
12-12FL67	3/4	3/4	1 1/2	27302	5
12-16FL67	3/4	1	1 3/4	27303	5
16-16FL67	1	1	1 3/4	27346	2
16-20FL67	1	1 1/4	2	27347	2
20-20FL67	1 1/4	1 1/4	2	27373	1
20-24FL67	1 1/4	1 1/2	2 3/8	27374	1

O-RING FLANGE 90° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-8FL90	1/2	1/2	1 3/16	27215	5
8-12FL90	1/2	3/4	1 1/2	27216	5
12-12FL90	3/4	3/4	1 1/2	27304	5
12-16FL90	3/4	1	1 3/4	27305	5
16-16FL90	1	1	1 3/4	27348	2
16-20FL90	1	1 1/4	2	27349	2
20-20FL90	1 1/4	1 1/4	2	27375	1
20-24FL90	1 1/4	1 1/2	2 3/8	27376	1

FEMALE SPECIAL GREASE FITTING

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-8FG	1/4	1/2-27	27064	10

MALE SPECIAL GREASE FITTING

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
3-2MPG	3/16	1/8-27	27011	10



FITTINGS

POWER CRIMP FERRULES CON'T

MALE FLARELESS

MFG NUMBER	HOSE I.D.	TUBE O.D.	PART NUMBER	PACKAGE
4-4MFA	1/4	1/4	27065	10
4-5MFA	1/4	5/16	27066	10
6-4MFA	3/8	1/4	27150	5
6-5MFA	3/8	5/16	27151	5
6-6MFA	3/8	3/8	27152	5
6-8MFA	3/8	1/2	27153	5
8-8MFA	1/2	1/2	27219	5
8-10MFA	1/2	5/8	27220	5
12-12MFA	3/4	3/4	27308	5
16-16MFA	1	1	27351	2

POWER LINK

MFG NUMBER	HOSE I.D.	COUPLING SIZE	PART NUMBER	PACKAGE
4-4PL	1/4	1/4	27067	10
6-6PL	3/8	3/8	27154	5
8-8PL	1/2	1/2	27221	5
12-12PL	3/4	3/4	27309	5
16-16PL	1	1	27352	2
20-20PL	1 1/4	1 1/4	27378	1

JAPANESE METRIC

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
10-10FKX	5/8	M24-1.5	27258	5
12-12FKX	3/4	M30-1.5	27310	5
16-16FKX	1	M33-1.5	27353	2

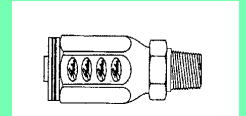


FITTINGS

REUSABLE FOR 100R2 AT

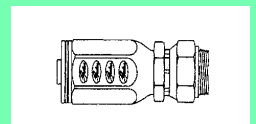
RIGID MALE PIPE

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
4C2AT-2RMP	1/4	1/8-27	27640
4C2AT4RMP	1/4	1/18	27641
6C2AT-4RMP	3/8	1/4-18	27647
6C2AT-6RMP	3/8	3/8-18	27648
8C2AT-6RMP	1/2	3/8-18	27658
8C2AT-8RMP	1/2	1/2-14	27659
8C2AT-12RMP	1/2	3/4-14	27660
12C2AT-12RMP	3/4	3/4-14	27671
16C2AT-16RMP	1	1-11	27677
20C2AT-20RMP	1 1/4	1 1/4-11	27679



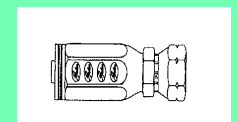
SWIVEL MALE PIPE

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
4C2AT-4RMPX	1/4	1/4-18	27642
6C2AT-6RMPX	3/8	3/8-18	27649
8C2AT-8RMPX	1/2	1/2-14	27661
12C2AT-12RPMPX	3/4	3/4-14	27672



FEMALE JIC SWIVEL

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER
4C2AT-4RFJX	1/4	7/16-20	27643
4C2AT-5RFJX	1/4	1/2-20	27644
6C2AT-6RFJX	3/8	9/16-18	27650
6C2AT-8RFJX	3/8	3/4-16	27651
8C2AT-8RFJX	1/2	3/4-16	27662
8C2AT-10RFJX	1/2	7/8-14	27663
12C2AT-12RFJX	3/4	1 1/16-12	27673
16C2AT-16RFJX	1	1 5/16-12	27678
20C2AT-20RFJX	1 1/4	1 5/8-12	27680



PACKAGE ON ALL IS 1

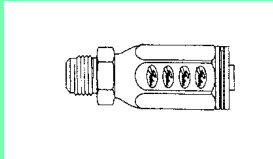
BECAUSE OF DIFFERENCES IN THE OUTSIDE DIAMETER BETWEEN 100R1 AND 100R2 HOSES, THESE FITTINGS ARE NOT COMPATIBLE WITH ANY HOSE OTHER THAN 100R2. C2AT IN THE MANUFACTURER NUMBER INDICATES IT IS FOR 2 WIRE THIN COVER HOSE. R MEANS REUSEABLE. F MEANS FEMALE. J MEANS JIC. X MEANS SWIVEL. THE COLLARS ARE MARKED WITH 2 RINGS.



FLOOR CLEANERS

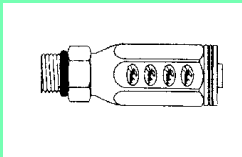
REUSABLE FOR 100R2 AT CON'T

RIGID MALE JIC



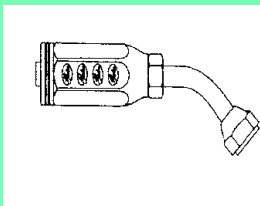
MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
6C2AT-6RMJ	3/8	9/16-18	27652	1
8C2AT-8RMJ	1/2	3/4-16	27664	1
8C2AT-10RMJ	1/2	7/8-14	27665	1
12C2AT-12RMJ	3/4	1 1/16-12	27674	1

O-RING MALE



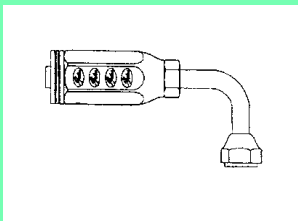
MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
6C2AT-6RMB	3/8	9/16-18	27653	1
6C2AT-8RMB	3/8	3/4-16	27654	1
8C2AT-8RMB	1/2	3/4-16	27666	1
8C2AT-10RMB	1/2	7/8-14	27667	1

FEMALE SWIVEL JIC 45° BENT TUBE



MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4C2AT-4RFJX45	1/4	7/16-20	27645	1
6C2AT-6RFJX45	3/8	9/16-18	27655	1
8C2AT-8RFJX45	1/2	3/4-16	27668	1
12C2AT-12RFJX45	3/4	1 1/16-12	27675	1

FEMALE SWIVEL JIC 90° BENT TUBE

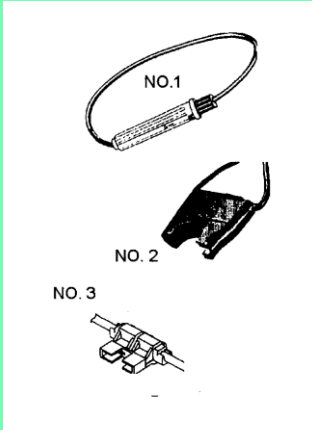


MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4C2AT-4RFJX90	1/4	7/16-20	27646	1
6C2AT-6RFJX90	3/8	9/16-18	27656	1
6C2AT-8RFJX90	3/8	3/4-16	27657	1
8C2AT-8RFJX90	1/2	3/4-16	27669	1
8C2AT-10RFJX90	1/2	7/8-14	27670	1
12C2AT-12RFJX90	3/4	1 1/16-12	27676	1



FUSES – FUSE HOLDERS

FUSES



FUSE HOLDERS

PART NUMBER	DESCRIPTION	PACK
52351	14GA MINI FUSE HOLDER	1
52352	18GA MINI FUSE HOLDER	1
52436	20 AMP NO.1	1
52445	30 AMP NO.1	1
52349	20 AMP ATC/ATO NO.2	1
52350	30 MP ATC/ATO NO.2	1
52348	20 AMP ATC/ATO SELF STRIPPING NO.3	1

AGC 1-1/4 LENGTH FUSES

PART NUMBER	AMPS	PACK
52600	1	5
52601	2	5
52602	3	5
52603	3.5	5
52604	4	5
52605	5	5
52606	10	5
52607	15	5
52608	20	5
52609	25	5
52610	30	5



SFE FUSES

PART NUMBER	AMP	LENGTH	PACK
52611	4	5/8"	5
52612	7.5	7/8"	5
52613	9	7/8"	5
52614	14	1-1/16"	5
52615	20	1-1/4"	5
52616	30	1-7/16"	5

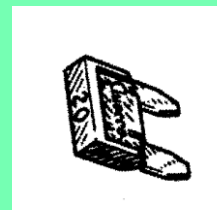




FUSES – FUSE HOLDERS

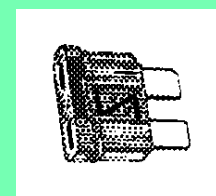
MINI FUSES

PART NUMBER	COLOR	AMP	PACK
52580	GRAY	2	5
52581	PURPLE	3	5
52582	PINK	4	5
52583	TAN	5	5
52584	BROWN	7.5	5
52585	RED	10	5
52586	BLUE	15	5
52587	YELLOW	20	5
52588	WHITE	25	5
52589	GREEN	30	5



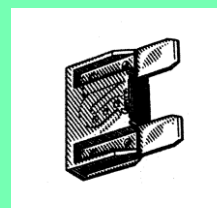
ATO, BLADE TYPE, FUSES

PART NUMBER	COLOR	AMP	PACK
52618	BLACK	1	5
52619	GRAY	2	5
52620	VIOLET	3	5
526201	PINK	4	5
52621	TAN	5	5
52622	BROWN	7.5	5
52623	RED	10	5
52624	BLUE	15	5
52625	YELLOW	20	5
52626	WHITE	25	5
52627	GREEN	30	5
52628	ORANGE	40	5



MAXI FUSES

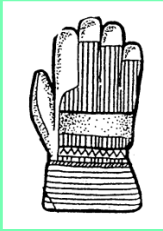
PART NUMBER	COLOR	AMP	PACK
52540	YELLOW	20	5
52541	GREEN	30	5
52542	ORANGE	40	5
52543	RED	50	5
52544	BLUE	60	5
52545	TAN	70	5
52546	VIOLET	80	5





GLOVES

GLOVES



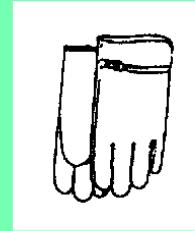
**QUALITY SPLIT LEATHER
PALM GLOVES 60850-
THINSULATE LINED**

**LEATHER PALM 60855
LARGE ONLY**



**BROWN JERSEY GLOVES
100% COTTON WITH SNUG
FITTING KNIT WRISTS. SOLD**

**BY THE PAIR OR DOZEN
60852 OR 60852DOZ**



**B/C GRADE LEATHER
BEST VALUE & QUALITY
BALL & TAPE WRIST STRAP**

**SLIP-ON STYLE S,M,L, XL
60853**

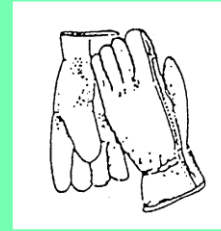


**ORANGE CAMOUFLAGE
JERSEY GLOVES PLASTIC
GRIP DOTS ON THE PALM
KNIT WRISTS
60854**



**RED LINED
BROWN JERSEY GLOVES**

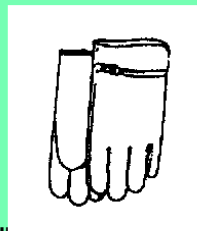
60865



**PILE LINED LEATHER GLOVES
PREMIUM GRAIN COWHIDE
COZY PILE LINING. SHIRRED
WRIST. KEYSTONE THUMB
60856 M,L,XL**



**BROWN CAMOUFLAGE
JERSEY GLOVES
100% COTTON KNIT
WRISTS
60858**



**DURABLE SIDE SPLIT LEATHER
STRAIGHT THUMB BALL &
TAPE WRIST STRAP S,M,L,XL
60859**

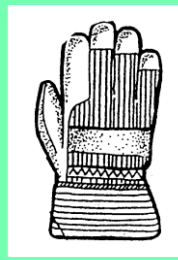


**WOMEN'S SPLIT LEATHER
PALM COTTON FLANNEL
LINED 60860**

**YELLOW GARDEN GLOVES
60864**



**MEN'S WELDERS GLOVE
SPLIT LEATHER, FIRE
RESISTANT KEVLAR
THREAD SEWN. FULLY
SOCK LINED.
REINFORCED THUMB 60861
GRAY WELDERS GLOVE 60863**



**GREEN DOUBLE LAYER SPLIT
LEATHER ON PALM & INDEX
FINGER FOR EXTRA PROTECTION
HEAVY DUTY.
60862**

**BLUE NITRILE GLOVES
LARGE 60866**

**BLUE NITRILE GLOVES
X-LARGE 60867**

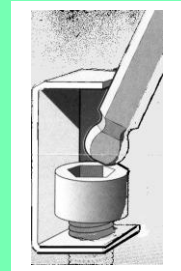
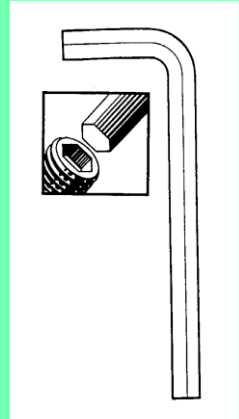


HEX L KEYS

HEX L KEYS

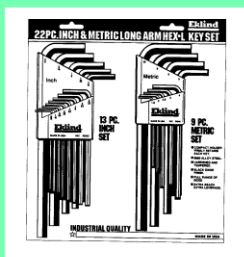
ALLOY

SIZE	SHORT ARM PART NUMBER	LONG ARM PART NUMBER	BALL LONG ARM
.050	11360	11460	
1/16	11361	11461	
5/64	11362	11462	
3/32	11363	11463	
7/64	11364	11464	
1/8	11365	11465	11485
9/64	11366	11466	11486
5/32	11367	11467	11487
3/16	11368	11468	11488
7/32	11369	11469	
1/4	11370	11470	11490
5/16	11371	11471	11491
3/8	11372	11472	11492
7/16	11373	11473	
1/2	11374	11474	
9/16	11375	11475	
5/8	11376	11476	
3/4	11377	11477	
7/8	11378	11478	
1	11379	11479	



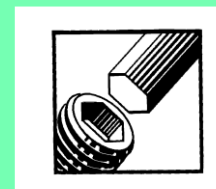
INDUSTRIAL HEX L KEY SETS WITH COMPACT PLASTIC HOLDER

THE LONG ARM HEX L KEYS PROVIDE EXTRA REACH FOR THOSE HARD TO REACH PLACES AND EXTRA LEVERAGE FOR REAL STUBBORN FASTENERS. COMPACT HOLDERS FIRMLY RETAIN EACH KEY SO YOU ALWAYS KNOW WHERE THEY ARE. EXTRA TORQUE, 8650 CHROME NICKEL ALLOY. HEAT TREATED FOR MAXIMUM STRENGTH. FINISHED TO RESIST RUST



BRAVE PART NUMBER 11505

COMBINATION SET CONTAINS
13 LONG ARM INCH SIZES AND
9 LONG ARM METRIC SIZES



PART NUMBER 11506

EKLIND DUAL PACK SET OF
INCH/METRIC
BALL HEX L WRENCHES IN
SIZES .050-3/8" AND M1.5-M10





HEX SOCKET PIPE PLUG

HEX SOCKET PIPE PLUG

ALLOY STEEL

3/4 TAPER DRY SEAL PRESSURE PLUGS

PART NUMBER	DESCRIPTION	PACKAGE
11800	1/16 HEX PIPE PLUG	100
11801	1/8 HEX PIPE PLUG	100
11802	1/4 HEX PIPE PLUG	100
11803	3/8 HEX PIPE PLUG	100
11804	1/2 HEX PIPE PLUG	50
11805	3/4 HEX PIPE PLUG	50
11806	1" HEX PIPE PLUG	25
11807	1 1/4 HEX PIPE PLUG	25

7/8 TAPER FLUSH SEAL PRESSURE PLUGS

PART NUMBER	DESCRIPTION	PACKAGE
11810	1/16 HEX PIPE PLUG	100
11811	1/8 HEX PIPE PLUG	100
11812	1/4 HEX PIPE PLUG	100
11813	3/8 HEX PIPE PLUG	100
11814	1/2 HEX PIPE PLUG	50
11815	3/4 HEX PIPE PLUG	50
11816	1" HEX PIPE PLUG	25
11817	1 1/4 HEX PIPE PLUG	25

STAINLESS STEEL PIPE PLUGS

PART NUMBER	DESCRIPTION	PACKAGE
SS11800	1/16 HEX SOCKET	100
SS11801	1/8 HEX SOCKET	100
SS11802	1/4 HEX SOCKET	50
SS11803	3/8 HEX SOCKET	50
SS11804	1/2 HEX SOCKET	25



HOSE

HOSE

AIR

ADAPTA FLEX AIR HOSE

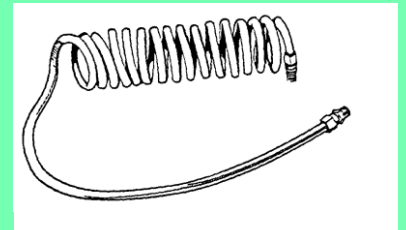
I.D.	PART NUMBER	PKG
3/8	62010	25 FT
3/8	62011	50 FT



POLYURETHANE RECOIL AIR HOSE

GREEN	HOSE I.D.	PIPE THREAD	PART NUMBER	PACKAGE
RECOIL	1/4	1/4	62019	10 FT.

HOSE I.D.	PIPE THREAD	PART NUMBER	PKG.
1/4	1/4	62020	10 FT
1/4	1/4	62021	20 FT
1/4	1/4	62022	30 FT
3/8	1/4	62023	20 FT
3/8	1/4	62024	30 FT
3/8	3/8	62025	20 FT
3/8	3/8	62026	30 FT

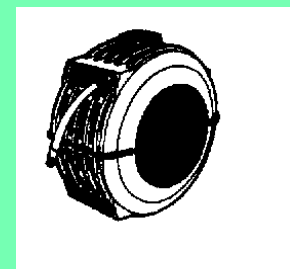


NYLON RECOIL AIR HOSE

HOSE I.D.	PIPE THREAD	PART NUMBER	PKG.
1/4	1/4	62027	25 FT

RETRACTABLE AIR HOSE PLASTIC CASE W/RUBBER HOSE

HOSE I.D.	DESCRIPTION	PART NUMBER
3/8	50 FT REEL	62012
1/2	50 FT REEL	62014



METAL CASE W/POLYURETHANE HOSE

HOSE I.D.	DESCRIPTION	PART NUMBER
3/8	50 FT REEL	62013

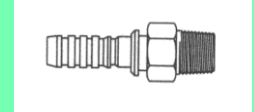


HOSE

POWER CRIMP PCS STEMS 100R12

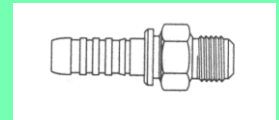
MALE PIPE

DESCRIPTION	HOSE I.D.	PART NUMBER
24PCS-24MP	1-1/2	274481
32PCS-32MP	2	274537



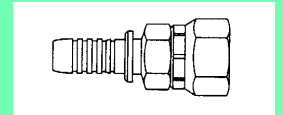
MALE JIC

DESCRIPTION	HOSE I.D.	PART NUMBER
24PCS-24MJ	1-1/2	274458
32PCS-32MJ	2	274538



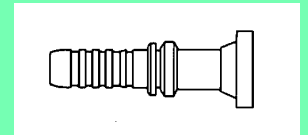
FEMALE JIC SWIVEL

DESCRIPTION	HOSE I.D.	PART NUMBER
24PCS-24FJX	1-1/2	274460
32PCS-32FJX	2	274560



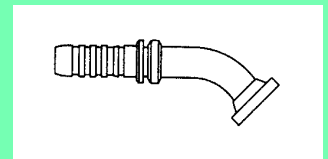
CODE 61 O-RING FLANGE

DESCRIPTION	HOSE I.D.	PART NUMBER
24PCS-24FL	1-1/2	274464
24PCS-32FL	1-1/2	274465
32PCS-32FL	2	274564



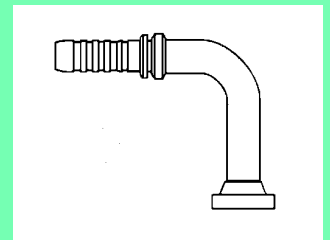
45° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
24PCS-24FL45	1-1/2	274469
32PCS-32FL45	2	274569



90° BENT TUBE

DESCRIPTION	HOSE I.D.	PART NUMBER
24PCS-24FL90	1-1/2	274475
32PCS-32FL90	2	274575



PACKAGE IS 1

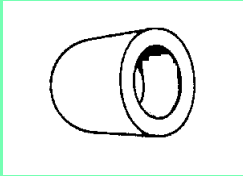
8GS-8MB

1/2 HOSE I.D. 279700808



HOSE

BRASS FERRULES



I.D.	LENGTH	PIERCE DIAMETER	VENDOR NUMBER	PART NUMBER
0.410	0.500	0.266	F-222	26701
0.450	0.563	0.344	F-316	26702
0.478	0.687	0.328	F-157	26703
0.500	0.500	0.344	F-225	26704
0.500	1.000	0.344	F-265	26705
0.525	0.500	0.344	F-230	26706
0.525	1.000	0.375	F268	26707
0.531	1.000	0.438	F-273	26708
0.548	0.484	0.375	F-236	26710
0.562	1.000	0.438	F-278	26711
0.575	0.484	0.468	F-031	26712
0.593	1.000	0.438	F-284	26713
0.600	0.500	0.500	F-030	26714
0.625	0.500	0.500	F-028	26715
0.625	1.000	0.438	F-288	26716
0.650	0.500	0.500	F-025	26717
0.656	1.000	0.438	F-294	26720
0.675	0.516	0.500	F-022	26721
0.687	1.000	0.500	F-300	26722
0.718	1.000	0.625	F-302	26724
0.718	1.000	0.500	F-302B	26725
0.725	0.531	0.500	F-016	26726
0.750	0.531	0.500	F-013	26727
0.750	1.000	0.625	F-305	26728
0.750	1.000	0.500	F-305B	26729
0.775	0.563	0.500	F-009	26730
0.782	1.000	0.625	F-310	26731
0.782	1.000	0.500	F-310B	26732
0.812	1.000	0.625	F-314	26734
0.875	0.844	0.688	F-255	26736
0.975	0.844	0.688	F-181	26738
1.150	0.844	0.875	F-241	26739

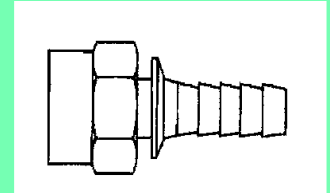


HOSE

POWER CRIMP STEMS

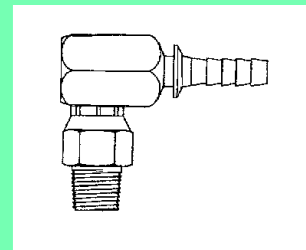
FEMALE PIPE SOLID

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
3-2 FP	3/16	1/8-27	27004	10
4-2 FP	1/4	1/8-27	27019	10
4-4 FP	1/4	1/4-18	27020	10
4-6 FP	1/4	3/8-18	27021	10
6-4 FP	3/8	1/4-18	27095	5
6-6 FP	3/8	3/8-18	27096	5
6-8 FP	3/8	1/2-14	27097	5
8-6 FP	1/2	3/8-18	27168	5
8-8 FP	1/2	1/2-14	27169	5
12-12 FP	3/4	3/4-14	27264	5



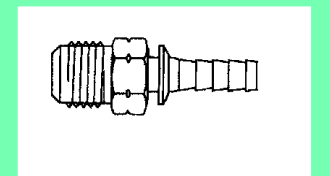
NPTF SWIVEL MALE 90°

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-4MPX90	1/4	1/4-18	27022	10
4-6MPX90	1/4	3/8-18	27023	10
6-4MPX90	3/8	1/4-18	27098	5
6-6MPX90	3/8	3/8-18	27099	5
6-8MPX90	3/8	1/2-14	27100	5
8-8MPX90	1/2	1/2-14	27170	5
12-12MPX90	3/4	3/4-14	27265	5



MALE SAE FLARE

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-4MS	1/4	7/16-20	27030	10
4-5MS	1/4	1/2-20	27031	10
6-6MS	3/8	5/8-18	27107	5
6-8MS	3/8	3/4-16	27108	5
8-8MS	1/2	3/4-16	27177	5
8-10MS	1/2	7/8-14	27178	5
12-12MS	3/4	1 1/16-14	27273	5





HOSE

POWER CRIMP STEMS CON'T

FEMALE SAE SWIVEL

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-4FSX	1/4	7/16-20	27032	10
4-5FSX	1/4	1/2-20	27033	10
4-6FSX	1/4	5/8-18	27034	10
6-6FSX	3/8	5/8-18	27109	5
6-8FSX	3/8	3/4-16	27110	5
8-8FSX	1/2	3/4-16	27179	5
8-10FSX	1/2	7/8-14	27180	5
12-12FSX	3/4	1 1/16-14	27274	5

MALE JIC RIGID

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
3-4MJ	3/16	7/16-20	27005	10
4-4MJ	1/4	7/16-20	27024	10
4-5MJ	1/4	1/2-20	27025	10
4-6MJ	1/4	9/16-18	27026	10
5-6MJ	5/16	9/16-18	27077	10
6-6 MJ	3/8	9/16-18	27101	5
6-8MJ	3/8	3/4-16	27102	5
6-10MJ	3/8	7/8-14	27103	5
8-8MJ	1/2	3/4-16	27171	5
8-10MJ	1/2	7/8-14	27172	5
8-12MJ	1/2	1 1/16-12	27173	5
10-8MJ	1/2	3/4-16	27236	5
10-10MJ	5/8	7/8-14	27237	5
10-12MJ	5/8	1 1/16-12	27238	5
12-12MJ	3/4	1 1/16-12	27266	5
12-14MJ	3/4	1 3/16-12	27267	5
12-16MJ	3/4	1 5/16-12	27268	5
16-16MJ	1	1 5/16-12	27320	2
16-20MJ	1	1 5/8-12	27321	2
20-20MJ	1 1/4	1 5/8-12	27358	1
20-24MJ	1 1/4	1 7/8-12	27359	1

PLEASE NOTE: JIC MALE AND SAE FEMALE ARE NOT COMPATIBLE.
THE SEAT (SEALING SURFACE) ON JIC IS 37° AND 45° ON SAE



HOSE

POWER CRIMP STEMS CON'T

FEMALE FLAT FACE O'RING 45° BENT TUBE

MFG NUMBER	PART NUMBER	HOSE I.D.	THREAD SIZE
4C2-4FFORX45	2706945	1/4	9/16-18
4C2-6FFORX45	2707045	1/4	11/16-16
6C2-8FFORX45	2715745	3/8	13/16-16
6C2-6FFORX45	2715845	3/8	11/16-16
8C2-8FFORX45	2722445	1/2	13/16-16
8C2-10FFORX45	2722545	1/2	1-14
10C2-10FFORX45	27258145	5/8	1-14
10C2-12FFORX45	27258245	5/8	1 3/16-12
12C2-16FFORX45	27313145	3/4	1 7/16-12
12C2-12FFORX45	2731345	3/4	1 3/16-12
16C2-16FFORX45	2735545	1	1 7/16-12
20C2-20FFORX45	2737845	1 1/4	1 11/16-12

FEMALE FLAT FACE O'RING 90° BENT TUBE

MFG NUMBER	PART NUMBER	HOSE I.D.	THREAD SIZE
4C2-4FFORX90M	2706940M	1/4	9/16-18
4C2-4FFORX90L	2706990L	1/4	9/16-18
4C2-4FFORX90S	2706990S	1/4	9/16-18
4C2-8FFORX90M	27070190M	1/4	13/16-16
4C2-6FFORX90L	2707090L	1/4	11/16-16
4C2-6FFORX90M	2707090M	1/4	11/16-16
4C2-6FFORX90S	2707090S	1/4	11/16-16
6C2-8FFORX90L	2715790L	3/8	13/16-16
6C2-8FFORX90M	2715790M	3/8	13/16-16
6C2-8FFORX90S	2715790S	3/8	13/16-16
6C2-6FFORX90L	27158190L	3/8	11/16-16
6C2-6FFORX90M	27158190M	3/8	11/16-16
6C2-6FFORX90S	27158190S	3/8	11/16-16
6C2-4FFORX90S	2715890S	3/8	9/16-18
8C2-6FFORX90S	2722390S	1/2	11/16-16
8C2-8FFORX90L	2722490L	1/2	13/16-16
8C2-8FFORX90M	2722490M	1/2	13/16-16
8C2-10FFORX90L	2722590L	1/2	1-14
8C2-10FFORX90M	2722590M	1/2	1-14
8C2-10FFORX90S	2722590S	1/2	1-14
10C2-10FFORX90L	27258190L	5/8	1-14
10C2-10FFORX90S	27258190S	5/8	1-14
10C2-12FFORX90S	27258290S	5/8	1 3/16-12
12C2-16FFORX90L	27313190L	3/4	1 7/16-12
12C2-16FFORX90S	27313190S	3/4	1 7/16-12
12C2-12FFORX90L	2731390L	3/4	1 3/16-12
12C2-12FFORX90M	2731390M	3/4	1 3/16-12
12C2-12FFORX90S	2731390S	3/4	1 3/16-12
16C2-16FFORX90L	2735590L	1	1 7/16-12
16C2-16FFORX90M	2735590M	1	1 7/16-12
16C2-16FFORX90S	2735590S	1	1 7/16-12
20C2-20FFORX90L	2737890L	1 1/4	1 11/16-12
20C2-20FFORX90S	2737890S	1 1/4	1 11/16-12
20C2-20FFORX90M	2737890M	1 1/4	1 11/16-12

ALL PACKAGE QUANTITIES ARE 1



HOSE

POWER CRIMP STEMS CON'T

O-RING FLANGE STRAIGHT

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-8FL	1/2	1/2	1 3/16	27210	5
8-12FL	1/2	3/4	1 1/2	27211	5
12-12FL	3/4	3/4	1 1/2	27292	5
12-16FL	3/4	1	1 3/4	27293	5
16-16FL	1	1	1 3/4	27336	2
16-20FL	1	1 1/4	2	27337	2
20-20FL	1 1/4	1 1/4	2	27363	2
20-24FL	1 1/4	1 1/2	2 3/8	27364	2

O-RING FLANGE 22° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
12-12FL22	3/4	3/4	1 1/2	27294	5
12-16FL22	3/4	1	1 3/4	27295	5
16-16FL22	1	1	1 3/4	27338	2
16-20FL22	1	1 1/4	2	27339	2
20-20FL22	1 1/4	1 1/4	2	27365	2
20-24FL22	1 1/4	1 1/2	2 3/8	27366	2

O-RING FLANGE 30° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
12-12FL30	3/4	3/4	1 1/2	27296	5
12-16FL30	3/4	1	1 3/4	27297	5
16-16FL30	1	1	1 3/4	27340	2
16-20FL30	1	1 1/4	2	27341	2
20-20FL30	1 1/4	1 1/4	2	27367	2
20-24FL30	1 1/4	1 1/2	2 3/8	27368	2

O-RING FLANGE 45° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-8FL45	1/2	1/2	1 3/16	27212	5
8-12FL45	1/2	3/4	1 1/2	27213	5
12-12FL45	3/4	3/4	1 1/2	27298	5
12-16FL45	3/4	1	1 3/4	27299	5
16-16FL45	1	1	1 3/4	27342	2
16-20FL45	1	1 1/4	2	27343	2
20-20FL45	1 1/4	1 1/4	2	27369	2
20-24FL45	1 1/4	1 1/2	2 3/8	27370	2



HOSE

POWER CRIMP STEMS CON'T

O-RING FLANGE 60° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-12FL60	1/2	3/4	1 1/2	27214	5
12-12FL60	3/4	3/4	1 1/2	27300	5
12-16FL60	3/4	1	1 3/4	27301	5
16-16FL60	1	1	1 3/4	27344	2
16-20FL60	1	1 1/4	2	27345	2
20-20FL60	1 1/4	1 1/4	2	27371	1
20-24FL60	1 1/4	1 1/2	2 3/8	27372	1

O-RING FLANGE 67° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
12-12FL67	3/4	3/4	1 1/2	27302	5
12-16FL67	3/4	1	1 3/4	27303	5
16-16FL67	1	1	1 3/4	27346	2
16-20FL67	1	1 1/4	2	27347	2
20-20FL67	1 1/4	1 1/4	2	27373	1
20-24FL67	1 1/4	1 1/2	2 3/8	27374	1

O-RING FLANGE 90° BENT TUBE

MFG NUMBER	HOSE I.D.	NOMINAL SIZE	FLANGE DIAMETER	PART NUMBER	PACKAGE
8-8FL90	1/2	1/2	1 3/16	27215	5
8-12FL90	1/2	3/4	1 1/2	27216	5
12-12FL90	3/4	3/4	1 1/2	27304	5
12-16FL90	3/4	1	1 3/4	27305	5
16-16FL90	1	1	1 3/4	27348	2
16-20FL90	1	1 1/4	2	27349	2
20-20FL90	1 1/4	1 1/4	2	27375	1
20-24FL90	1 1/4	1 1/2	2 3/8	27376	1

FEMALE SPECIAL GREASE FITTING

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
4-8FG	1/4	1/2-27	27064	10

MALE SPECIAL GREASE FITTING

MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
3-2MPG	3/16	1/8-27	27011	10



HOSE

POWER CRIMP STEMS CON'T

MALE FLARELESS

MFG NUMBER	HOSE I.D.	TUBE O.D.	PART NUMBER	PACKAGE
4-4MFA	1/4	1/4	27065	10
4-5MFA	1/4	5/16	27066	10
6-4MFA	3/8	1/4	27150	5
6-5MFA	3/8	5/16	27151	5
6-6MFA	3/8	3/8	27152	5
6-8MFA	3/8	1/2	27153	5
8-8MFA	1/2	1/2	27219	5
8-10MFA	1/2	5/8	27220	5
12-12MFA	3/4	3/4	27308	5
16-16MFA	1	1	27351	2

POWER LINK

MFG NUMBER	HOSE I.D.	COUPLING SIZE	PART NUMBER	PACKAGE
4-4PL	1/4	1/4	27067	10
6-6PL	3/8	3/8	27154	5
8-8PL	1/2	1/2	27221	5
12-12PL	3/4	3/4	27309	5
16-16PL	1	1	27352	2
20-20PL	1 1/4	1 1/4	27378	1

JAPANESE METRIC

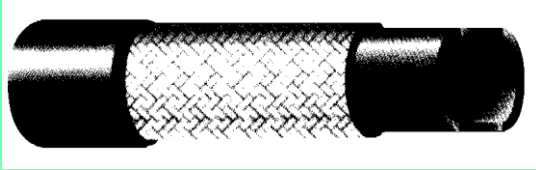
MFG NUMBER	HOSE I.D.	THREAD SIZE	PART NUMBER	PACKAGE
10-10FKX	5/8	M24-1.5	27258	5
12-12FKX	3/4	M30-1.5	27310	5
16-16FKX	1	M33-1.5	27353	2



HOSE

KURT HYDRAULIC HOSE

SAE 100R1 HYDRAULIC HOSE



RECOMMENDED FOR: MEDIUM PRESSURE HYDRAULIC OIL LINES. MEETS OR EXCEEDS REQUIREMENTS OF SAE 100R1AT

TUBE: BLACK, OIL RESISTANT, NITRILE (BTR).

REINFORCEMENT: ONE BRAID OF HIGHER TENSILE STEEL WIRE

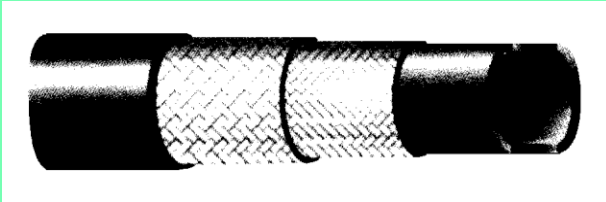
COVER: BLACK, OIL AND ABRASION RESISTANT NEOPRENE (CR).

TEMPERATURE RANGE: -40 F TO + 212 F

NO SKIVING REQUIRED

PART NUMBER	HOSE I.D. (IN.)	HOSE O.D. (IN.)	RATED W.P. (PSI)	MIN. BURST (PSI)	MIN. BEND (IN.)
KR104	1/4	0.53	2750	11000	4
KR106	3/8	0.69	2250	9000	5
KR108	1/2	0.82	2000	8000	7
KR110	5/8	0.94	1500	6000	8
KR112	3/4	1.1	1250	5000	9.5
KR116	1	1.41	1000	4000	12

SAE 100R2 AT HYDRAULIC HOSE



RECOMMENDED FOR: HIGH PRESSURE HYDRAULIC OIL LINES. MEETS OR EXCEEDS REQUIREMENTS OF SAE 100R2AT.

TUBE: BLACK, OIL RESISTANT, NITRILE (BTR).

REINFORCEMENT: TWO BRAID OF HIGH TENSILE STEEL WIRE

COVER: BLACK, OIL AND ABRASION RESISTANT NEOPRENE (CR).

TEMPERATURE RANGE: -40 F TO +212 F

NO SKIVING REQUIRED

PART NUMBER	HOSE I.D. (IN.)	HOSE O.D. (IN.)	RATED W.P. (PSI)	MIN BURST (PSI)	MIN. BEND (IN.)
KR204	1/4	0.59	5000	20000	4
KR206	3/8	0.75	4000	16000	5
KR208	1/2	0.88	3500	14000	7
KR210	5/8	0.98	2750	11000	8
KR212	3/4	1.16	2250	9000	9.5
KR216	1	1.5	2000	8000	12
KR220	1 1/4	1.87	1625	7300	16.5

SUITABLE FOR HYDRAULIC FLUIDS ON MINERAL OIL AND SYNTHETIC OIL BASIS (HL, HLP, HLPD, HVLP), FOR OIL-WATER-EMULSIONS (HFAE, HFAS, HFB) AND WATER-GLYCOL LIQUIDS (HFC), FOR VEGETABLE AND MINERAL OIL BASED LUBRICANTS, COOLING WATER AND COMPRESSED AIR.

NOT SUITABLE FOR HYDRAULIC FLUIDS ON PHOSPHATE ESTER BASIS (HFD).

GENERALLY ALSO SUITABLE FOR BIOLOGICALLY DEGRADABLE HYDRAULIC LIQUIDS (HETG, HEPG, HEES) HOWEVER LIMITED BY FLUID ADDITIVES.



HOSE

KURT HYDRAULIC HOSE CON'T

SAE 100R16 HYDRAULIC HOSE



RECOMMENDED FOR: HIGH PRESSURE HYDRAULIC OIL LINES. MEETS OR EXCEEDS REQUIREMENTS OF SAE 100R16.

TUBE: BLACK, OIL RESISTANT, NITRILE (BTR).

REINFORCEMENT: TWO BRAIDS OF HIGHER TENSILE STEEL WIRE

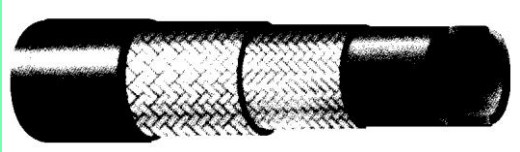
COVER: BLACK, OIL AND ABRASION RESISTANT NEOPRENE (CR).

TEMPERATURE RANGE: -40 TO +212 F

NO SKIVING REQUIRED

PART NUMBER	HOSE I.D. (IN.)	HOSE O.D. (IN.)	RATED W.P. (PSI)	MIN. BURST (PSI)	MIN BEND (IN.)
KR1604	1/4	0.55	5000	20000	2
KR1606	3/8	0.67	4000	16000	2.5
KR1608	1/2	0.81	3500	14000	3.5
KR1610	5/8	0.93	2750	11000	4
KR1612	3/4	1.07	2250	9000	4.8
KR1616	1	1.37	2000	4000	6

SAE 100R17 HYDRAULIC HOSE



RECOMMENDED FOR: HIGH PRESSURE HYDRAULIC OIL LINES. MEETS OR EXCEEDS REQUIREMENTS OF SAE 100R2AT.

TUBE: BLACK, OIL RESISTANT, NITRILE (BTR)

REINFORCEMENT: ONE OR TWO BRAID OF HIGH TENSILE STEEL WIRE

COVER: BLACK, OIL AND ABRASION RESISTANT NEOPRENE (CR).

TEMPERATURE RANGE: -40 F TO + 212 F

NO SKIVING REQUIRED

PART NUMBER	HOSE I.D. (IN.)	HOSE O.D. (IN.)	RATED W.P. (PSI)	MIN. BURST (PSI)	MIN. BEND (IN.)
KR1704	1/4	0.5	3000	12000	2
KR1706	3/8	0.66	3000	12000	2.5
KR1708	1/2	0.8	3000	12000	3.5
KR1710*	5/8	1	3000	12000	4
KR1712*	3/4	1.18	3000	12000	4.8
KR1716*	1	1.48	3000	12000	6

*TWO HIGH TENSILE STEEL WIRE BRAIDS

SUITABLE FOR HYDRAULIC FLUIDS ON MINERAL OIL AND SYNTHETIC OIL BASIS (HL, HLP, HLPD, HVLP), FOR OIL-WATER-EMULSIONS (HFAE, HFAS, HFB) AND WATER-GLYCOL LIQUIDS (HFC), FOR VEGETABLE AND MINERAL OIL BASED LUBRICANTS, COOLING WATER AND COMPRESSED AIR.

NOT SUITABLE FOR HYDRAULIC FLUIDS ON PHOSPHATE ESTER BASIS (HFD).

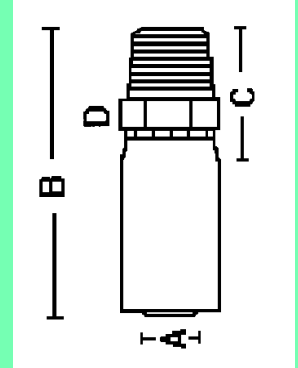
GENERALLY ALSO SUITABLE FOR BIOLOGICALLY DEGRADABLE HYDRAULIC LIQUIDS (HETG, HEPG, HEES) HOWEVER LIMITED BY FLUID ADDITIVES.



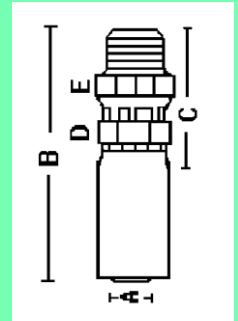
HOSE

KURT HYDRAULIC HOSE CON'T

MALE PIPE NPTF RIGID						
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMP0402	1/4	1/8 27	0.250	2.13	1.05	0.625
KMP0404	1/4	1/4 18	0.250	2.31	1.25	0.687
KMP0406	1/4	3/8 18	0.250	2.404	1.312	0.75
KMP0408	1/4	1/2 14	0.250	2.625	1.375	0.937
KMP0604	3/8	1/4 18	0.375	2.592	1.125	0.75
KMP0606	3/8	3/8 18	0.375	2.592	1.125	0.75
KMP0608	3/8	1/2 14	0.375	2.844	1.375	0.937
KMP0806	1/2	3/8 18	0.500	2.782	1.125	0.75
KMP0808	1/2	1/2 14	0.500	3.031	1.375	0.937
KMP0812	1/2	3/4 14	0.500	3.62	1.375	1.125
KMP1008	5/8	1/2 14	0.500	3.031	1.375	0.937
KMP1012	5/8	3/4 14	0.750	3.22	1.375	1.125
KMP1208	3/4	1/2 14	0.500	3.62	1.375	1.00
KMP1212	3/4	3/4 14	0.750	3.22	1.375	1.125
KMP1216	3/4	1 11 1/2	0.750	3.969	1.562	1.375
KMP1612	1	3/4 14	1.000	3.45	1.375	1.125
KMP1616	1	1 11 1/2	1.000	3.969	1.562	1.375
KMP2020	1	1 1/4-1 1/2	1.250	4.600	2.310	1.680

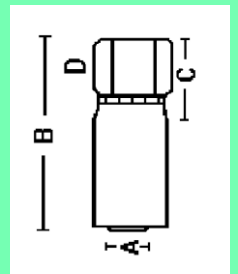


MALE PIPE NPTF SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KMPX0402	1/4	1/8 27	0.250	2.350	1.55	0.625	0.687
KMPX0404	1/4	1/4 18	0.250	2.872	1.812	0.625	0.687
KMPX0406	1/4	3/8 18	0.250	2.120	1.812	0.625	0.75
KMPX0604	3/8	1/4 18	0.375	3.150	1.812	0.625	0.687
KMPX0606	3/8	3/8 18	0.375	3.150	1.687	0.754	0.75
KMPX0608	3/8	1/2 18	0.375	3.342	1.937	0.75	0.937
KMPX0806	1/2	3/8 18	0.500	3.150	1.687	0.75	0.75
KMPX0808	1/2	1/2 14	0.500	3.609	1.937	0.937	0.937
KMPX1212	3/4	3/4 14	0.750	3.840	2.00	1.125	1.125
KMPX1616	1	1 11 1/2	1.000	4.650	2.333	1.375	1.50



NPSM FEMALE PIPE SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KFPX0404	1/4	1/4 18	0.250	2.375	1.312	0.625	0.75
KFPX0606	3/8	3/8 18	0.375	2.656	1.187	0.75	0.875
KFPX0808	1/2	1/2 14	0.500	3.062	1.375	1.00	1.00
KFPX1212	3/4	3/4 14	0.750	3.840	2.00	1.25	1.125
KFPX1616	1	1 11 1/2	1.000	4.650	2.333	1.375	1.50

NPSM FEMALE PIPE RIGID						
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KFP0404	1/4	1/4 18	0.250	2.340	0.844	0.75
KFP0606	3/8	3/8 18	0.375	2.620	0.938	0.875
KFP0808	1/2	1/2 14	0.500	3.030	1.09	1.063

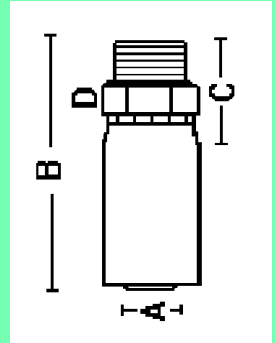




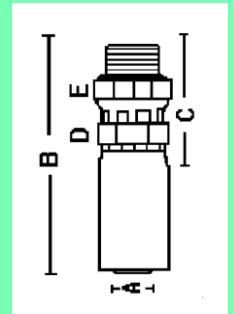
HOSE

KURT HYDRAULIC HOSE CON'T

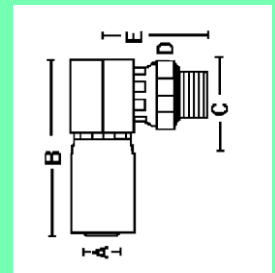
MALE BOSS O-RING RIGID						
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMB0404	1/4	7/16 20	0.250	2.11	1.030	0.625
KMB0405	1/4	1/2 20	0.250	2.11	1.030	0.625
KMB0406	1/4	9/16 18	0.250	2.14	1.060	0.688
KMB0408	1/4	3/4 16	0.250	2.625	1.094	0.938
KMB0606	3/8	9/16 20	0.375	2.423	1.00	0.750
KMB0608	3/8	3/4 16	0.375	2.47	1.031	0.875
KMB0808	1/2	3/4 16	0.500	2.782	1.093	0.938
KMB0810	1/2	7/8 14	0.500	2.844	1.156	1.062
KMB1010	5/8	7/8 14	0.625	2.93	1.156	1.062
KMB1212	3/4	1 1/16 12	0.750	3.06	1.250	1.250
KMB1616	1	1 5/16 12	1.000	3.62	1.300	1.500



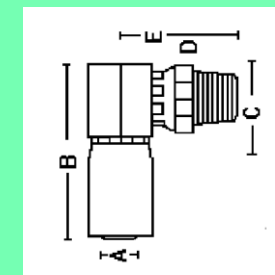
MALE BOSS O-RING SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KMBX0404	1/4	7/16 20	0.25	2.87	1.812	0.625	0.687
KMBX0406	1/4	9/16 20	0.25	3.12	1.912	0.625	0.75
KMBX0606	3/8	9/16 20	0.375	3.15	1.687	0.750	0.75
KMBX0608	3/8	3/4 16	0.375	3.34	1.937	0.750	0.937
KMBX0808	1/2	3/4 16	0.500	3.60	1.937	0.937	0.937
KMBX0810	1/2	7/8 14	0.500	3.80	2.05	0.937	1.00
KMBX1212	3/4	1 1/16 12	0.750	3.52	1.250	1.750	1.25



MALE BOSS O-RING SWIVEL 90°							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KMBX900404	1/4	7/16 20	0.25	2.25	1.25	0.687	1.700
KMBX900406	1/4	9/16 20	0.25	2.43	1.25	0.750	1.800
KMBX900606	3/8	9/16 20	0.375	2.50	1.35	0.750	1.800
KMBX900608	3/8	3/4 16	0.375	2.50	1.35	0.937	1.850
KMBX900808	1/2	3/4 16	0.500	3.00	1.42	0.937	1.900
KMBX900810	1/2	7/8 14	0.500	3.00	1.42	0.937	1.900
KMBX901212	3/4	1 1/16 12	0.750	3.25	1.250	1.750	1.25



MALE PIPE SWIVEL 90°							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KMPX900404	1/4	1/4 18	0.25	2.25	1.25	0.687	1.700
KMPX900406	1/4	3/8 18	0.25	2.43	1.25	0.750	1.800
KMPX900606	3/8	3/8 18	0.375	2.50	1.35	0.750	1.800
KMPX900608	3/8	1/2 14	0.375	2.50	1.35	0.937	1.900
KMPX900808	1/2	1/2 14	0.500	3.00	1.42	0.937	1.900
KMPX901212	3/4	1 1/16 12	0.750	3.25	1.250	1.750	1.25

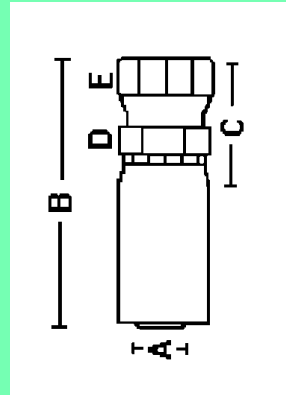




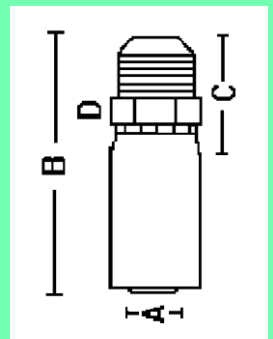
HOSE

KURT HYDRAULIC HOSE CON'T

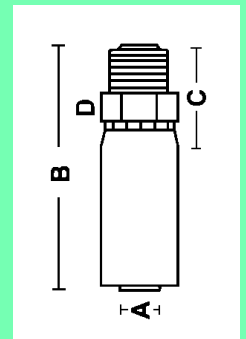
37° JIC FEMALE SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KFJX0203	1/8	3/8 24	0.125	1.76	1.437	0.562	0.500
KFJX0304	3/16	7/16 20	0.187	2.24	1.437	0.625	0.625
KFJX0305	3/16	1/2 20	0.187	2.24	1.437	0.625	0.750
KFJX0404	1/4	7/16 20	0.250	2.531	1.437	0.625	0.625
KFJX0405	1/4	1/2 20	0.250	2.531	1.437	0.625	0.750
KFJX0406	1/4	9/16 18	0.250	2.531	1.437	0.625	0.750
KFJX0606	3/8	9/16 18	0.375	2.813	1.437	0.75	0.750
KFJX0608	3/8	3/4 16	0.375	2.813	1.375	0.75	0.937
KFJX0610	3/8	7/8 14	0.375	2.94	1.375	0.875	1.062
KFJX0806	1/2	9/16 18	0.500	2.95	1.500	0.75	0.750
KFJX0808	1/2	3/4 16	0.500	3.156	1.375	0.875	0.937
KFJX0810	1/2	7/8 14	0.500	3.156	1.500	0.875	1.062
KFJX0812	1/2	1 1/16 12	0.500	3.24	1.500	1.125	1.250
KFJX1008	5/8	3/4 16	0.625	3.24	1.625	0.875	0.937
KFJX1010	5/8	7/8 14	0.625	3.35	1.500	0.875	1.062
KFJX1012	5/8	1 1/16 12	0.625	3.45	1.500	1.125	1.250
KFJX1212	3/4	1 1/16 12	0.750	3.437	1.625	1.125	1.250
KFJX1214	3/4	1 3/16 12	0.750	3.437	1.625	1.125	1.250
KFJX1216	3/4	1 5/16 12	0.750	3.500	1.625	1.375	1.500
KFJX1612	1	1 1/16 12	1.000	3.62	1.625	1.125	1.250
KFJX1616	1	1 5/16 12	1.000	4.062	1.687	1.375	1.500
KFJX1620	1	1 5/8 12	1.000	4.900	2.500	1.687	2.000
KFJX2020	1	1 1/4 5/8 12	1.250	4.900	2.500	1.687	2.000



37° JIC MALE RIGID						
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMJ0404	1/4	7/16 20	0.250	2.300	1.250	0.625
KMJ0405	1/4	1/2 20	0.250	2.300	1.250	0.625
KMJ0406	1/4	9/16 18	0.250	2.45	1.125	0.750
KMJ0606	3/8	9/16 18	0.375	2.588	1.125	0.750
KMJ0608	3/8	3/4 16	0.375	2.689	1.250	0.813
KMJ0808	1/2	3/4 16	0.500	2.876	1.250	0.875
KMJ0810	1/2	7/8 14	0.500	3.102	1.437	0.937
KMJ0812	1/2	1 1/16 12	0.500	3.2	1.500	1.125
KMJ1010	5/8	7/8 14	0.625	3.102	1.437	0.937
KMJ1212	3/4	1 1/16 12	0.750	3.322	1.500	1.125
KMJ1214	3/4	1 3/16 12	0.750	3.322	1.500	1.125
KMJ1216	3/4	1 5/16 12	0.750	3.769	1.625	1.375
KMJ1616	1	1 5/16 12	1.000	3.969	1.625	1.375



MALE FACE SEAL RIGID						
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMF0404	1/4	9/16 18	0.250	2.360	1	0.625
KMF0606	3/8	13/16 16	0.375	2.48	1.125	0.75
KMF0808	1/2	1 1/16 16	0.500	2.71	1.35	0.875
KMF1010	5/8	1 1/4 14	0.625	2.91	1.62	1.05
KMF1212	3/4	1 13/16 12	0.75	3.12	1.86	1.25

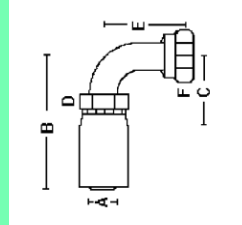




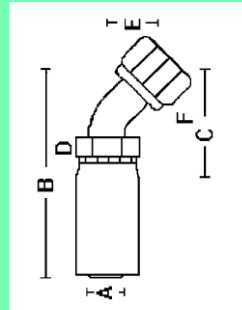
HOSE

KURT HYDRAULIC HOSE CON'T

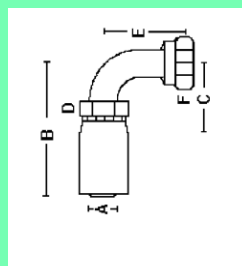
37° JIC FEMALE 90° TUBE SWIVEL								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFJX900404	1/4	7/16 20	0.250	2.281	1.312	0.625	1.875	0.562
KFJX900405	1/4	1/2 20	0.250	2.281	1.312	0.625	0.875	0.562
KFJX900406	1/4	9/16 18	0.250	2.438	1.187	0.625	1.125	0.687
KFJX900604	3/8	7/16 20	0.375	2.281	1.312	0.625	0.875	0.562
KFJX900606	3/8	9/16 18	0.375	2.625	1.187	0.75	1.125	0.687
KFJX900608	3/8	3/4 16	0.375	2.751	1.312	0.75	1.375	0.875
KFJX900806	1/2	9/16 18	0.500	2.625	1.187	0.75	1.125	0.687
KFJX900808	1/2	3/4 16	0.500	2.938	1.317	0.875	1.375	0.875
KFJX900810	1/2	7/8 14	0.500	3.062	1.437	1.000	1.000	1.000
KFJX901010	5/8	7/8 14	0.625	3.062	1.437	1.000	1.000	1.000
KFJX901012	5/8	1 1/16 12	0.625	3.875	2.062	1.125	2.312	1.250
KFJX901212	3/4	1 1/16 12	0.750	3.875	2.062	1.125	2.312	1.250
KFJX901216	3/4	1 5/16-12	0.750	4.750	2.312	1.500	2.500	1.500
KFJX901616	1	1 5/16-12	1.000	4.750	2.312	1.500	2.500	1.500



37° JIC FEMALE 45° TUBE SWIVEL								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFJX450404	1/4	7/16 20	0.250	2.565	1.473	0.625	0.467	0.562
KFJX450405	1/4	1/2 20	0.250	2.565	1.473	0.625	0.467	0.562
KFJX450406	1/4	9/16 18	0.375	2.921	1.500	0.75	0.588	0.687
KFJX450604	3/8	7/16 20	0.375	2.565	1.473	0.625	0.467	0.562
KFJX450606	3/8	9/16 18	0.375	2.921	1.500	0.75	0.588	0.687
KFJX450608	3/8	3/4 16	0.375	3.284	1.625	0.875	0.713	0.875
KFJX450806	1/2	9/1 18	0.500	2.921	1.500	0.75	0.588	0.687
KFJX450808	1/2	3/4 16	0.500	3.284	1.625	0.875	0.713	0.875
KFJX450810	1/2	7/8 14	0.500	3.523	1.835	1.000	0.839	1.000
KFJX451010	5/8	7/8 14	0.625	3.523	1.835	1.000	0.839	1.000
KFJX451012	5/8	1 1/16 12	0.625	4.329	2.437	1.125	1.180	1.250
KFJX451212	3/4	1 1/16 12	0.750	4.329	1.437	1.125	1.180	1.250
KFJX451216	3/4	1 5/16-12	0.750	4.875	1.875	1.500	0.925	1.500
KFJX451616	1	1 5/16-12	1.000	4.875	2.875	1.500	0.925	1.500



37° JIC FEMALE 90° TUBE SWIVEL LONG DROP								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFJX90L0404	1/4	7/16 20	0.250	2.313	1.233	0.625	1.800	0.562
KFJX90L0406	1/4	9/16 18	0.250	2.743	1.431	0.750	2.180	0.687
KFJX90L0604	3/8	7/16 20	0.375	2.313	1.233	0.625	1.800	0.562
KFJX90L0606	3/8	9/16 18	0.375	2.743	1.431	0.750	2.180	0.687
KFJX90L0608	3/8	3/4 16	0.375	3.043	1.480	0.875	2.430	0.875
KFJX90L0808	1/2	3/4 16	0.500	3.043	1.480	0.875	2.430	0.875
KFJX90L0810	1/2	7/8 14	0.500	3.176	1.550	0.875	2.650	1
KFJX90L1010	5/8	7/8 14	0.625	3.176	1.550	0.875	2.650	1
KFJX90L1212	3/4	1 1/16-12	0.750	3.777	2.021	1.125	3.730	1.250
KFJX90L1616	1	1 5/16-12	1.000	4.875	2.875	1.500	4.35	1.500

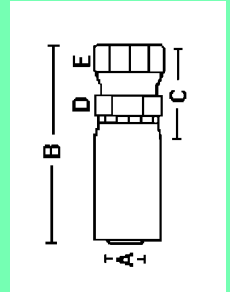




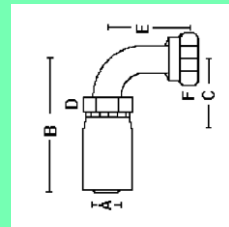
HOSE

KURT HYDRAULIC HOSE CON'T

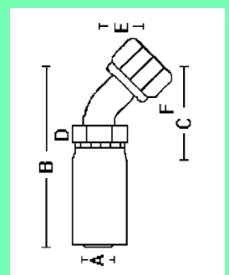
O-RING FACE SEAL FEMALE SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KFFX0404	1/4	9/16 18	0.250	2.597	1.517	0.625	0.688
KFFX0406	1/4	11/16 16	0.250	2.652	1.517	0.625	0.688
KFFX0606	3/8	11/16 16	0.375	2.920	1.608	0.750	0.813
KFFX0608	3/8	13/16 16	0.375	3.216	1.720	0.875	0.938
KFFX0808	1/2	13/16 16	0.500	3.285	1.720	0.875	0.938
KFFX0810	1/2	1 14	0.500	3.285	1.720	0.875	0.938
KFFX0812	1/2	1 3/16 12	0.500	3.352	1.954	1.125	1.375
KFFX1010	5/8	1 14	0.625	3.285	1.720	0.875	0.938
KFFX1012	5/8	1 3/16 12	0.625	3.71	1.954	1.125	1.375
KFFX1212	3/4	1 3/16 12	0.750	3.710	1.954	1.125	1.375
KFFX1616	1	1 7/16 12	1.000	4.360	2.110	1.375	1.625



O-RING FACE SEAL FEMALE 90° TUBE SWIVEL								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFFX900404	1/4	9/16 18	0.250	2.313	1.233	0.625	0.779	0.688
KFFX900406	1/4	11/16 16	0.250	2.651	1.431	0.75	0.902	0.813
KFFX900606	3/8	11/16 16	0.375	2.743	1.431	0.75	0.902	0.813
KFFX900608	3/8	13/16 16	0.375	2.854	1.480	0.875	1.150	0.938
KFFX900808	1/2	13/16 16	0.500	3.043	1.480	0.875	1.150	0.938
KFFX900810	1/2	1 14	0.500	3.47	2.125	0.875	1.330	1.125
KFFX901010	5/8	1 14	0.625	3.47	2.125	0.875	1.330	1.125
KFFX901012	5/8	1 3/16 12	0.625	3.567	2.021	1.125	1.882	1.375
KFFX901212	3/4	1 3/16 12	0.750	3.777	2.021	1.125	1.882	1.375
KFFX901616	1	1 7/16 12	1.000	4.45	2.843	1.375	2.25	1.625



O-RING FACE SEAL FEMALE 45° TUBE SWIVEL								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFFX450404	1/4	9/16 18	0.250	2.551	1.473	0.625	0.409	0.688
KFFX450406	1/4	11/16 16	0.250	2.65	1.513	0.750	0.429	0.813
KFFX450606	3/8	11/16 16	0.375	2.825	1.513	0.750	0.429	0.813
KFFX450608	3/8	13/16 16	0.375	3.152	1.752	0.875	0.590	0.938
KFFX450808	1/2	13/16 16	0.500	3.315	1.752	0.875	0.590	0.938
KFFX450810	1/2	1 14	0.500	3.58	2.218	0.875	0.690	1.125
KFFX451010	5/8	1 14	0.625	3.61	2.218	0.875	0.690	1.125
KFFX451012	5/8	1 3/16 12	0.625	4.11	2.572	1.125	0.831	1.375
KFFX451212	3/4	1 3/16 12	0.750	4.32	2.572	1.125	0.831	1.375
KFFX451616	1	1 7/16 12	1.000	4.55	2.843	1.375	0.97	1.625

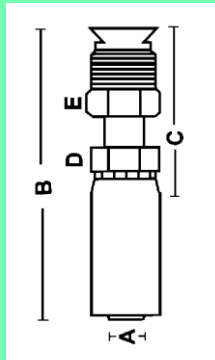


O-RING FACE SEAL FEMALE 90° SWIVEL LONG DROP								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFFX90L0404	1/4	9/16 18	0.250	2.313	1.233	0.625	1.800	0.562
KFFX90L0606	3/8	11/16 16	0.375	2.743	1.431	0.750	2.180	0.687
KFFX90L0808	1/2	13/16 16	0.500	3.043	1.480	0.875	2.430	0.875
KFFX90L1212	3/4	1 3/16 12	0.750	3.777	2.021	1.125	3.730	1.250

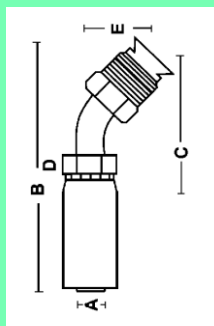


HOSE

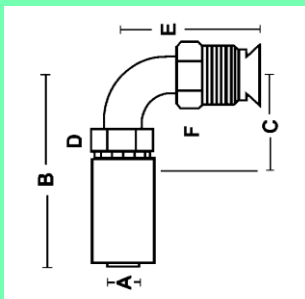
KURT HYDRAULIC HOSE CON'T



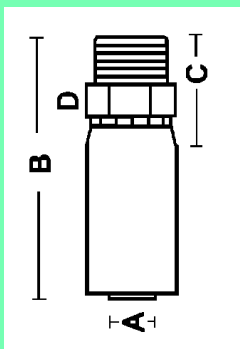
45° SAE MALE INVERTED FLARE				
PART NUMBER	HOSE I.D.	THREAD	A	B
KMIX0404	1/4	7/16 24	0.250	3.280
KMIX0405	1/4	1/2 20	0.250	3.280
KMIX0406	1/4	5/8 18	0.250	3.450
KMIX0605	3/8	1/2 20	0.375	3.730
KMIX0606	3/8	5/8 18	0.375	3.730
KMIX0608	3/8	3/4 18	0.375	3.420
KMIX0808	1/2	3/4 18	0.500	3.660



45° SAE MALE INVERTED FLARE 45°			
PART NUMBER	HOSE I.D.	THREAD	A
KMIX450404	1/4	7/16 24	0.250
KMIX450405	1/4	1/2 20	0.250
KMIX450406	1/4	5/8 18	0.250
KMIX450605	3/8	1/2 20	0.375
KMIX450606	3/8	5/8 18	0.375
KMIX450608	3/8	3/4 18	0.375
KMIX450808	1/2	3/4 18	0.500



45° SAE MALE INVERTED FLARE 90°			
PART NUMBER	HOSE I.D.	THREAD	A
KMIX900404	1/4	7/16 24	0.250
KMIX900405	1/4	1/2 20	0.250
KMIX900406	1/4	5/8 18	0.250
KMIX900605	3/8	1/2 20	0.375
KMIX900606	3/8	5/8 18	0.375
KMIX900608	3/8	3/4 18	0.375
KMIX900808	1/2	3/4 18	0.500



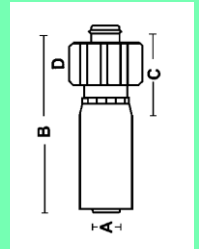
FLARELESS COMPRESSION SAE J514		
PART NUMBER	HOSE I.D.	THREAD
KMT0404	1/4	7/16 20
KMT0405	1/4	1/2 20
KMT0605	3/8	1/2 20
KMT0606	3/8	9/16 20
KMT0808	1/2	3/4 16
KMT0810	1/2	3/4 16
KMT1212	3/4	1 1/16 12



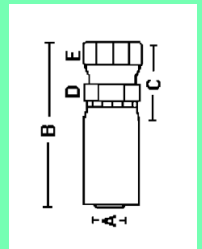
HOSE

KURT HYDRAULIC HOSE CON'T

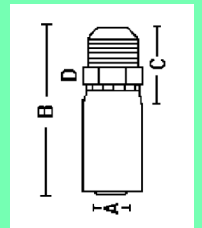
KARCHER PRESSURE WASH FEMALE SWIVEL					
PART NUMBER	HOSE I.D.	THREAD	A	B	C
KKAR0422	1/4	22MM X 1.5	0.250	2.65	1.400
KKAR0622	3/8	22MM X 1.5	0.375	2.86	1.400



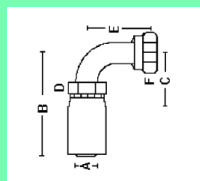
45° SAE FEMALE SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KFSX0606	3/8	5/8 18	0.375	2.81	1.375	0.750	0.937
KFSX1212	3/4	1 1/16 14	0.075	3.437	1.625	1.125	1.250



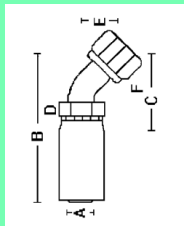
45° SAE MALE RIGID						
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
MS0606	3/8	5/8 18	0.375	2.652	1.21	0.750
MS1212	3/4	1 1/16 14	0.075			



45° SAE FEMALE 90° TUBE SWIVEL								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFSX900606	3/8	5/8 18	0.375	2.600	1.200	0.750	1.120	0.750
KFSX901212	3/4	1 1/16 14	0.075	3.875	2.062	1.125	2.312	1.25



45° SAE FEMALE 45° TUBE SWIVEL								
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E	F
KFSX450606	3/8	5/8 18	0.375	2.920	1.500	0.750	0.580	0.750
KFSX451212	3/4	1 1/16 14	0.075	4.329	2.437	1.125	1.180	1.250





HOSE

KURT HYDRAULIC HOSE CON'T

CODE 61 FLANGE RIGID

PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KC610808	1/2	1.190	0.500	3.650	2.020	0.875
KC611212	3/4	1.500	0.750	4.150	2.330	1.125
KC611616	1	1.750	1.000	4.660	3.245	1.375
KC611620	1	2.000	1.000	4.750	3.350	1.375

STAND TUBE RIGID

PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMW0404	1/4	N/A	0.25			0.625
KMW0405	1/4	N/A	0.25			0.625
KMW0406	1/4	N/A	0.25			0.625
KMW0606	3/8	N/A	0.375			0.075
KMW0608	3/8	N/A	0.375			0.075
KMW0808	1/2	N/A	0.500			0.875
KMW0810	3/4	N/A	0.500			0.875
KMW1212	3/4	N/A	0.75			1.125
KMW1616	1	N/A	1			1.25

FEMALE WELD FITTING RIGID

PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KFW0404	1/4	N/A	0.25			0.625
KFW0405	1/4	N/A	0.25			0.625
KFW0406	1/4	N/A	0.25			0.625
KFW0606	3/8	N/A	0.375			0.075
KFW0608	3/8	N/A	0.375			0.075
KFW0808	1/2	N/A	0.5			0.875
KFW1212	3/4	N/A	0.75			1.013
KFW1616	1	N/A	1			1.25

SHELL ONLY

PART NUMBER	HOSE I.D.	THREAD	A	B
KSHELL4	N/A	N/A	0.750	1.520
KSHELL6	N/A	N/A	0.905	1.700
KSHELL8	N/A	N/A	1.065	1.900
KSHELL10	N/A	N/A	1.310	2.075
KSHELL12	N/A	N/A	1.380	2.075
KSHELL16	N/A	N/A	1.790	2.520

FLARELESS COMPRESSION SAE J514

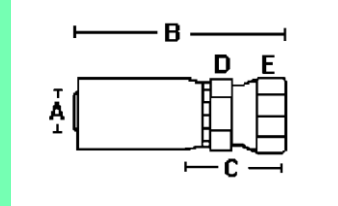
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMT0404	1/4	7/16 20	0.25	2.11	1.030	0.625
KMT0405	1/4	1/2 20	0.25	2.11	1.030	0.625
KMT0605	3/8	1/2 20	0.375	2.423	1.00	0.750
KMT0606	3/8	9/16 20	0.375	2.423	1.00	0.750
KMT0808	1/2	3/4 16	0.500	2.423	1.00	0.750
KMT0810	1/2	3/4 16	0.500	2.844	1.156	1.062
KMT1212	3/4	1 1/16 12	0.75	3.06	1.250	1.250
KMT1616	1	1 5/16 12	1	3.62	1.300	1.500



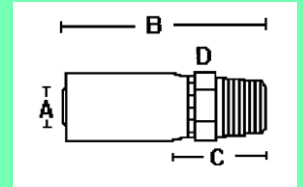
HOSE

KURT HYDRAULIC HOSE CON'T

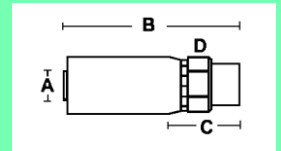
BRITISH STANDARD PIPE 60° CONE FEMALE SWIVEL					
PART NUMBER	HOSE I.D.	THREAD	A	B	C
KFBSPX0404	1/4	1/4 19	0.250	2.597	1.430
KFBSPX0606	3/8	3/8 19	0.375	2.920	1.450
KFBSPX0608	3/8	1/2 14	0.500	3.125	1.500
KFBSPX0808	1/2	1/2 14	0.500	3.285	1.500
KFBSPX1010	5/8	5/8 14	0.625	3.36	1.550
KFBSPX1212	3/4	3/4 14	0.750	3.437	1.626
KFBSPX1616	1	1/11	1.000	4.062	1.687



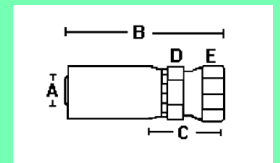
BRITISH STANDARD PIPE 60° CONE MALE RIGID					
PART NUMBER	HOSE I.D.	THREAD	A	B	C
KMBSPT0404	1/4	1/4 19	0.250	2.31	1.25
KMBSPT0606	3/8	3/8 19	0.375	2.404	1.312
KMBSPT0808	1/2	1/2 14	0.500	2.625	1.375
KMBSPT1212	3/4	3/4 14	0.750	3.22	1.375
KMBSPT1616	1	1/11	1	3.969	1.562



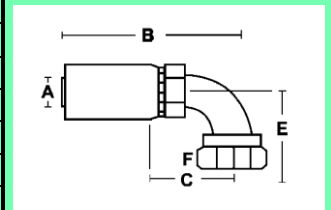
BRITISH PARALLEL PIPE 60° CONE MALE RIGID					
PART NUMBER	HOSE I.D.	THREAD	A	B	C
KMBSPP0404	1/4	1/4 19	0.250	2.31	1.23
KMBSPP0606	3/8	3/8 19	0.375	2.404	1.312
KMBSPP0808	1/2	1/2 14	0.500	2.625	1.375



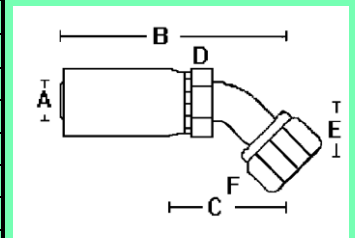
BRITISH FLAT FACE SEAT FEMALE SWIVEL					
PART NUMBER	HOSE I.D.	THREAD	A	B	C
KFBFPX0606	3/8	3/8 19	0.375	2.920	1.608
KFBFPX0608	3/8	1/2 14	0.500	3.125	1.720
KFBFPX0808	1/2	1/2 14	0.500	3.285	1.720



BRITISH STANDARD PIPE 60° CONE 90° TUBE FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFBSPX900404	1/4	1/4 19	0.250
KFBSPX900606	3/8	3/8 19	0.375
KFBSPX900808	1/2	1/2 14	0.500
KFBSPX901010	5/8	5/6 14	0.625
KFBSPX901212	3/4	3/4 14	0.750
KFBSPX901616	1	1/11	1.000



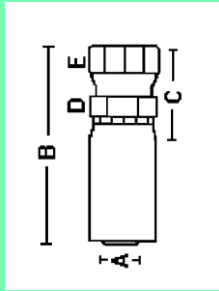
BRITISH STANDARD PIPE 60° CONE 45° TUBE FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFBSPX450404	1/4	1/4 19	0.250
KFBSPX450606	3/8	3/8 19	0.375
KFBSPX450808	1/2	1/2 14	0.500
KFBSPX451010	5/8	5/6 14	0.625
KFBSPX451212	3/4	3/4 14	0.750
KFBSPX451616	1	1/11	1.000



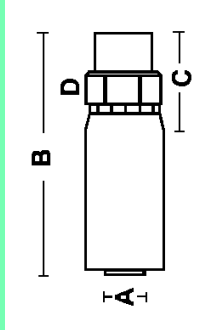


HOSE

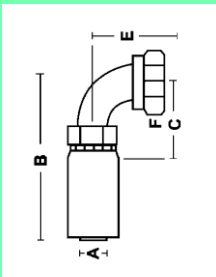
KURT HYDRAULIC HOSE CON'T



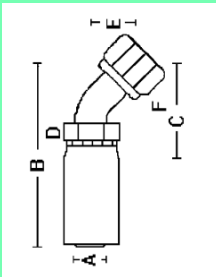
DIN LIGHT UNIVERSAL SEAT FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFDINLX0414	1/4	M14 X 1.5	0.250
KFDINLX0416	1/4	M16 X 1.5	0.250
KFDINLX0618	3/8	M18 X 1.5	0.375
KFDINLX0822	1/2	M22 X 1.5	0.500
KFDINLX1026	5/8	M22 X 1.5	0.625
KFDINLX1230	3/4	M30 X 2	0.750
KFDINLX1636	1	M36 X 2	1.00



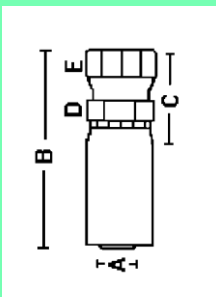
DIN LIGHT UNIVERSAL SEAT RIGID MALE			
PART NUMBER	HOSE I.D.	THREAD	A
KMDINLX0414	1/4	M14 X 1.5	0.25
KMDINLX0618	3/8	M18 X 1.5	0.375
KMDINLX0822	1/2	M22 X 1.5	0.5
KMDINLX1026	5/8	M26 X 1.5	0.625
KMDINLX1230	3/4	M30 X 2.0	0.75
KMDINLX1636	1	M36 X 2.0	1



DIN LIGHT UNIVERSAL SEAT 90° TUBE FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFDINLX900416	1/4	M16 X 1.5	0.250
KFDINLX900618	3/8	M18 X 1.5	0.375
KFDINLX900822	1/2	M22 X 1.5	0.500
KFDINLX901026	5/8	M22 X 1.5	0.625
KFDINLX901230	3/4	M30 X 2	0.750
KFDINLX901636	1	M36 X 2	1.00



DIN LIGHT UNIVERSAL SEAT 45° TUBE FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFDINLX450416	1/4	M16 X 1.5	0.250
KFDINLX450618	3/8	M18 X 1.5	0.375
KFDINLX450822	1/2	M22 X 1.5	0.500
KFDINLX451026	5/8	M22 X 1.5	0.625
KFDINLX451230	3/4	M30 X 2	0.750
KFDINLX451636	1	M36 X 2	1.00



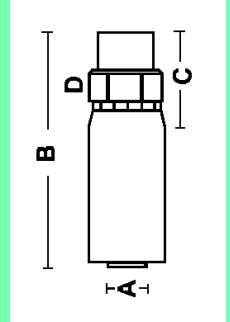
DIN HEAVY UNIVERSAL SEAT FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFDINHX0416	1/4	M14 X 1.5	0.250
KFDINHX0418	1/4	M18 X 1.5	0.250
KFDINHX0622	3/8	M22 X 1.5	0.375
KFDINHX0824	1/2	M24 X 1.5	0.50
KFDINHX1030	5/8	M30 X 2	0.625
KFDINHX1236	3/4	M36 X 2	0.750
KFDINHX1642	1	M42 X 2	1.00



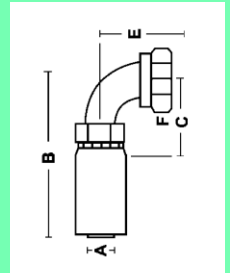
HOSE

KURT HYDRAULIC HOSE CON'T

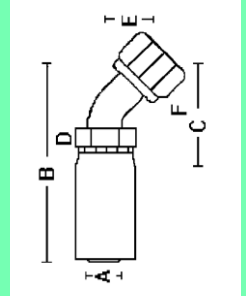
DIN HEAVY UNIVERSAL SEAT RIGID MALE			
PART NUMBER	HOSE I.D.	THREAD	A
KMDINHX0416	1/4	M16 X 1.5	0.250
KMDINHX0418	1/4	M18 X 1.5	0.250
KMDINHX0622	3/8	M22 X 1.5	0.375
KMDINHX0824	1/2	M24 X 1.5	0.500
KMDINHX1030	5/8	M30 X 2	0.625
KMDINHX1236	3/4	M36 X 2	0.750
KMDINHX1642	1	M42 X 2	1.00



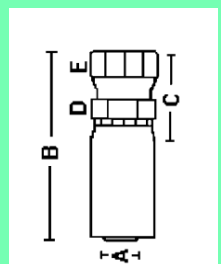
DIN HEAVY UNIVERSAL SEAT 90° TUBE FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFDINHX900416	1/4	M14 X 1.5	0.250
KFDINHX900622	3/8	M22 X 1.5	0.375
KFDINHX900824	1/2	M24 X 1.5	0.500
KFDINHX901030	5/8	M30 X 2	0.625
KFDINHX901236	3/4	M36 X 2	0.750
KFDINHX901642	1	M42 X 2	1.00



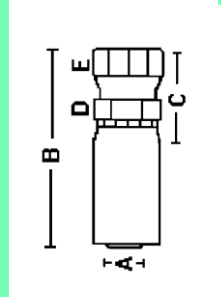
DIN HEAVY UNIVERSAL SEAT 45° TUBE FEMALE SWIVEL			
PART NUMBER	HOSE I.D.	THREAD	A
KFDINHX450416	1/4	M14 X 1.5	0.250
KFDINHX450622	3/8	M22 X 1.5	0.375
KFDINHX450824	1/2	M24 X 1.5	0.500
KFDINHX451030	5/8	M30 X 2	0.625
KFDINHX451236	3/4	M36 X 2	0.750
KFDINHX451642	1	M42 X 2	1.00



JIS 30° SEAT FEMALE SWIVEL					
PART NUMBER	HOSE I.D.	THREAD	A	B	C
KFJISX0404	1/4	1/4 19	0.250	2.597	1.400
KFJISX0606	3/8	3/8 19	0.375	2.920	1.420
KFJISX0808	1/2	1/2 14	0.500	3.125	1.500
KFJISX1212	3/4	3/4 14	0.750	3.437	1.625
KFJISX1616	1	1/11	1.00	4.062	1.687



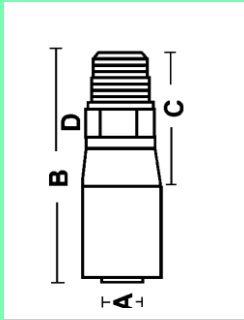
KOMATSU JIS 30° SEAT FEMALE SWIVEL					
PART NUMBER	HOSE I.D.	THREAD	A	B	C
KFKOMX0404	1/4	M14 X 1.5	0.250	2.597	1.400
KFKOMX0606	3/8	M18 X 1.5	0.375	2.920	1.430
KFKOMX0808	1/2	M22 X 1.5	0.500	3.125	1.500
KFKOMX1010	5/8	M24 X 1.5	0.625	3.36	1.500
KFKOMX1212	3/4	M30 X 1.5	0.750	3.437	1.625
KFKOMX1616	1	M33 X 1.5	1.00	4.062	1.687



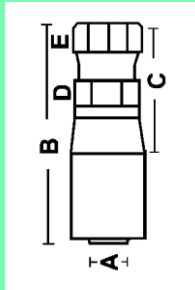


HOSE

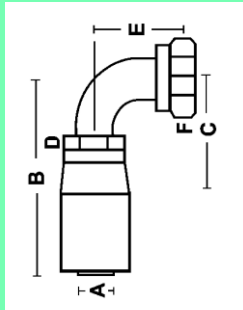
KURT HYDRAULIC HOSE CON'T



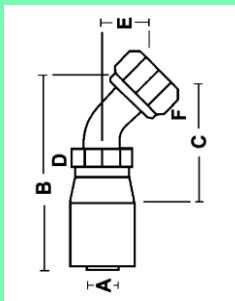
MALE PIPE NPTF RIGID						
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMP0808BW	1/2	1/2 14	0.500	2.65	1.31	0.875
KMP1212BW	3/4	3/4 14	0.75	3.29	1.41	1.062
KMP1216BW	3/4	1-11 1/2	0.75	3.47	1.59	1.375
KMP1616BW	1	1-11 1/2	1.00	3.71	1.59	1.375
KMP1620BW	1	1 1/4-11 1/2	1.00	3.8	1.68	1.688
KMP2020BW	1 1/4	1 1/4-11 1/2	1.25	4.24	1.7	1.75
KMP2024BW	1 1/4	1 1/2-11 1/2	1.25	4.33	1.79	2
KMP2424BW	1 1/2	1 1/2-11 1/2	1.50	4.58	1.98	2.25
KMP3232BW	2	2-11 1/2	2.00	5.39	2.13	2.62



37° JIC FEMALE SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KFJX0808BW	1/2	3/4 16	0.500	2.57	1.22	0.875	0.875
KFJX1212BW	3/4	1 1/16 12	0.75	3.460	1.58	1.25	1.062
KFJX1216BW	3/4	1 5/16 12	0.75	3.530	1.65	1.5	1.375
KFJX1616BW	1	1 5/16 12	1.00	3.830	1.71	1.5	1.375
KFJX1620BW	1	1 5/8 12	1.00	4.000	1.71	2	1.75
KFJX2020BW	1 1/4	1 5/8 12	1.25	4.430	1.89	2	1.75
KFJX2024BW	1 1/4	1 7/8 12	1.25	4.670	2.17	2.25	2.25
KFJX2424BW	1 1/2	1 7/8 12	1.50	4.770	2.17	2.25	2.25
KFJX3232BW	2	2 1/2 12	2.00	5.95	2.7	2.87	2.625



37° JIC FEMALE 90° SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	E	F
KFJX901212BW	3/4	1 1/16 12	0.75	4.61	2.73	2.57	1.25
KFJX901216BW	3/4	1 5/16 12	0.75	4.82	2.94	2.92	1.5
KFJX901616BW	1	1 5/16 12	1.00	5.2	3.05	2.8	1.5
KFJX901620BW	1	1 5/8 12	1.00	5.2	3.05	2.8	2
KFJX902020BW	1 1/4	1 5/8 12	1.25	6.44	3.9	3.24	2
KFJX90B2024W	1 1/4	1 7/8 12	1.25	6.45	3.9	3.24	2.25
KFJX902424BW	1 1/2	1 7/8 12	1.50	6.74	4.14	3.94	2.25
KFJX903232BW	2	2 1/2 12	2.00	8.25	5	5.6	2.875

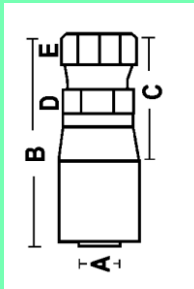


37° JIC FEMALE 45° SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	E	F
KFJX451212BW	3/4	1 1/16 12	0.75	4.94	3.06	1.15	4
KFJX451216BW	3/4	1 5/16 12	0.75	5.01	3.13	1.23	1.5
KFJX451616BW	1	1 5/16 12	1.00	5.240	3.12	1.27	1.5
KFJX451620BW	1	1 5/8 12	1.00	5.270	3.15	1.3	2
KFJX452020BW	1 1/4	1 5/8 12	1.25	6.530	3.99	1.47	2
KFJX452024BW	1 1/4	1 7/8 12	1.25	7.070	4.52	2.01	2.25
KFJX452424BW	1 1/2	1 7/8 12	1.50	7.49	4.89	1.84	2.25
KFJX453232BW	2	2 1/2 12	2.00	9.16	5.91	2.71	2.875



HOSE

KURT HYDRAULIC HOSE CON'T



O-RING FACE SEAL FEMALE SWIVEL							
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D	E
KFFX1212BW	3/4	1 3/16 12	0.75	3.51	1.63	1.125	1.375
KFFX1216BW	3/4	1 7/16 12	0.75	3.66	1.78	1.375	1.625
KFFX1616BW	1	1 7/16 12	1.00	3.9	1.78	1.375	1.625
KFFX1620BW	1	1 11/16 12	1.00	3.9	1.78	1.625	1.875
KFFX2020BW	1 1/4	1 11/16 12	1.25	4.33	1.78	1.75	1.88
KFFX2024BW	1 1/4	2 12	1.25	4.33	1.79	1.75	1.88
KFFX2424BW	1 1/2	2 12	1.50	4.79	2.19	2.25	2.375



HOSE

KURT HYDRAULIC HOSE CON'T

O-RING FACE SEAL 45° FEMALE SWIVEL

PART NUMBER	HOSE I.D.	THREAD	A	B	C	E
KFFX451212BW	3/4	1 3/16 12	0.75	4.62	2.57	0.83
KFFX451216BW	3/4	1 7/16 12	0.75	4.730	2.57	0.94
KFFX451616BW	1	1 7/16 12	1.00	5.120	2.57	0.94
KFFX451620BW	1	1 11/16 12	1.00	6.200	2.94	0.96
KFFX452020BW	1 1/4	1 11/16 12	1.25	6.230	3.71	1.00
KFFX452024BW	1 1/4	2 12	1.25	6.23	4.12	1.07
KFFX452424BW	1 1/2	2 12	1.50	6.62	4.12	1.07

O-RING FACE SEAL 90° FEMALE SWIVEL

PART NUMBER	HOSE I.D.	THREAD	A	B	C	E
KFFX901212BW	3/4	1 3/16 12	0.75	4.45	2.57	1.88
KFFX901216BW	3/4	1 7/16 12	0.75	4.450	2.57	2.21
KFFX901616BW	1	1 7/16 12	1.00	5.060	2.57	2.21
KFFX901620BW	1	1 11/16 12	1.00	5.100	2.75	2.51
KFFX902020BW	1 1/4	1 11/16 12	1.25	6.250	3.71	2.51
KFFX902024BW	1 1/4	2 12	1.25	6.7	3.8	2.70
KFFX902424BW	1 1/2	2 12	1.50	6.72	4.12	2.70

MALE BOSS O-RING RIGID

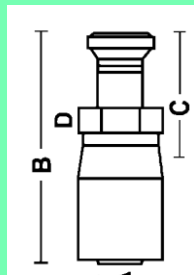
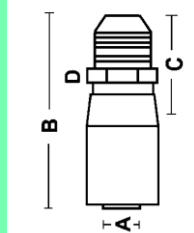
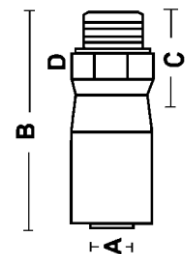
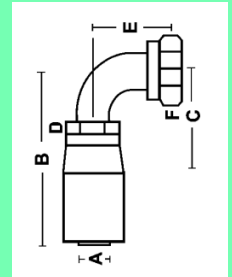
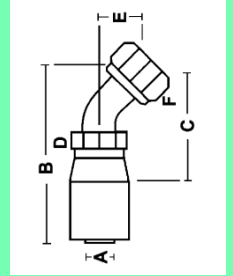
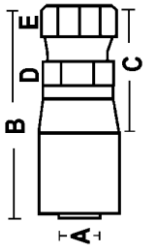
PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMB1212BW	3/4	1 1/16 12	0.75	3.12	1.23	1.125
KMB1216BW	3/4	1 5/16 12	0.75	3.2	1.25	1.375
KMB1616BW	1	1 5/16 12	1.00	3.36	1.25	1.375
KMB1620BW	1	1 5/8 12	1.00	3.37	1.26	1.688
KMB2020BW	1 1/4	1 5/8 12	1.25	3.77	1.28	1.688
KMB2024BW	1 1/4	1 7/8 12	1.25	4.1	1.61	2.25
KMB2424BW	1 1/2	1 7/8 12	1.50	4.2	1.61	2.25
KMB3232BW	2	2 1/2 12	2.00	5.12	1.82	2.625

37° JIC MALE RIGID

PART NUMBER	HOSE I.D.	THREAD	A	B	C	D
KMJ1212BW	3/4	1 1/16 12	0.75	3.32	1.45	1.125
KMJ1216BW	3/4	1 5/16 12	0.75	3.43	1.55	1.375
KMJ1616BW	1	1 5/16 12	1.00	3.67	1.550	1.375
KMJ1620BW	1	1 5/8 12	1.00	3.79	1.660	1.688
KMJ2020BW	1 1/4	1 5/8 12	1.25	4.24	1.700	1.688
KMJ2024BW	1 1/4	1 7/8 12	1.25	4.61	2.110	2.25
KMJ2424BW	1 1/2	1 7/8 12	1.50	4.71	2.11	2.25
KMJ3232BW	2	2 1/2 12	2.00	5.62	2.38	2.625

CODE 61 FLANGE RIGID

PART NUMBER	HOSE I.D.	THREAD	A	B	C
C611212BW	3/4	1 1/16 12	0.75	4.21	2.3
C611216BW	3/4	1 5/16 12	0.75	4.22	2.34
C611616BW	1	1 5/16 12	1.00	4.45	2.35
C611620BW	1	1 5/8 12	1.00	4.45	2.35
C612020BW	1 1/4	1 5/8 12	1.25	5.3	2.75
C612024BW	1 1/4	1 7/8 12	1.25	5.36	2.82
C612424BW	1 1/2	1 7/8 12	1.50	5.51	2.91
C613232BW	2	2 1/2 12	2.00	7.3	4.05

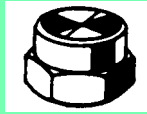




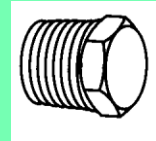
HOSE

FLAT FACE FITTINGS

HYDRAULIC FITTINGS



SIZE	CAPS	PLUG
04	28800	28808
06	28801	28809
08	28802	28810
10	28803	28811
12	28804	28812
16	28805	28813
20	28806	28814



HYDRAULIC FITTINGS

UNION	MALE CONNECTOR FACE SEAL TO M.P.	
PART NUMBER	PART NUMBER	SIZE
228200404	288300402	04FF02MP
228200604	288300404	04FF04MP
228200606	288300406	04FF06MP
228200806	288300602	06FF02MP
228200808	288300604	06FF04MP
228201008	288300606	06FF06MP
228201010	288300608	06FF08MP
228201208	288300804	08FF04MP
228201210	288300806	08FF06MP
228201212	288300808	08FF08MP
	288300812	08FF12MP
	288301008	10FF08MP
	288301012	10FF12MP
	288301208	12FF08MP
	288301212	12FF12MP

MALE FACE SEAL TO MALE JIC ADAPTER

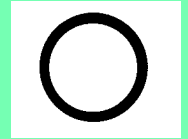
PART NUMBER	SIZE
288400404	04FF04MJ
288400606	06FF06MJ
288400808	08FF08MJ
288401010	10FF10MJ
288401212	12FF12MJ
288401616	16FF16MJ



HOSE

O-RINGS FOR BOSS FITTINGS

MFG NUMBER	TUBING O.D.	I.D.	O.D.	PART NUMBER	PKG
3 OR	3/16	.301	.429	28557	25
4 OR	1/4	.351	.495	28558	25
5 OR	5/16	.414	.558	28560	25
6 OR	3/8	.468	.624	28562	25
8 OR	1/2	.644	.818	28570	25
10 OR	5/8	.755	.997	28572	25
12 OR	3/4	.924	1.116	28580	25
14 OR	7/8	1.048	1.116	28582	25
16 OR	1	1.171	1.116	28589	25
20 OR	1-1/4	1.475	1.118	28597	25



LOCKNUTS FOR BULKHEAD FITTINGS

MFG NUMBER	THREAD	PART NUMBER	PACKAGE
4LN	7/16-20	28559	5
5LN	1/2-20	28561	5
6LN	9/16-18	28563	5
8LN	3/4-16	28571	5
10LN	7/8-14	28573	5
12LN	1 1/16-12	28581	5
16LN	1 3/16-12	28590	5



O'RING ASSORTMENT

10 ITEMS, 121 PIECES MB

3 OR 28557	5 OR 28560	8 OR 28570	12 OR 28580	16 OR 28589	
4 OR 28558	6 OR 28562	10 OR 28572	14 OR 28582	20 MB 28597	





HOSE

HYDRAULIC HOSE

1 WIRE 100R1

1 WIRE BRAID HOSE ,100R1, TYPE AT, MEETS

FLAME RESISTANCE ACCEPTANCE DESIGNATION
U.S. MSHA 2G

NO SKIVE RECOMMENDED FOR MEDIUM PRESSURE
HYDRAULIC OIL LINES.

TUBE: TYPE C, BLACK, OIL RESISTANT
SYNTHETIC RUBBER.

REINFORCEMENT: ONE BRAID OF HIGH
TENSILE WIRE.

COVER: TYPE C2, BLACK, OIL AND ABRASION
RESISTANT, THIN SYNTHETIC RUBBER.

TEMPERATURE RANGE: -40° TO +200° F

COUPLINGS AVAILABLE: CRIMP AND REUSABLE

PART NUMBER	I.D.	O.D.	WORKING PRESSURE	MINIMUM BURST	BEND RADIUS	WEIGHT PER CFT
250104	1/4	.53	2750	11000	4	14
250106	3/8	.69	2250	9000	5	23
250108	1/2	.82	2000	8000	7	28
250112	3/4	1.10	1250	5000	9.5	42
250116	1	1.41	1000	4000	12	66

WORKING AND MINIMUM BURST PRESSURES ARE STATED IN P.S.I.
(POUNDS PER SQUARE INCH)



HOSE

2 WIRE 100R2

2 WIRE BRAID HOSE, SAE 100R2, TYPE AT, MEETS
FLAME RESISTANCE ACCEPTANCE DESIGNATION
U.S. MSHA 2G.

NO SKIVE RECOMMENDED FOR HIGH PRESSURE
HYDRAULIC OIL LINES.

TUBE: TYPE C, BLACK, OIL RESISTANT
SYNTHETIC RUBBER.

REINFORCEMENT: TWO BRAIDS OF HIGH
TENSILE WIRE.

COVER: TYPE C2, BLACK, OIL AND ABRASION
RESISTANT, THIN SYNTHETIC RUBBER.

TEMPERATURE RANGE: -40° TO +200° F

COUPLINGS AVAILABLE: PERMANENT AND REUSABLE



PART NUMBER	I.D.	O.D.	WORKING PRESSURE	MINIMUM BURST	BEND RADIUS	WEIGHT PER CFT
250203	3/16	.52	5000	20000	3.5	20
250204	1/4	.58	5000	20000	4	23
250206	3/8	.73	4000	16000	5	35
250208	1/2	.86	3500	14000	7	42
250210	5/8	.98	2750	11000	8	50
250212	3/4	1.14	2250	9000	9.5	60
250216	1	1.48	2000	8000	12	89
250220	1 1/4	1.87	1625	6500	16.5	140

WORKING AND MINIMUM BURST PRESSURES ARE STATED IN P.S.I.
(POUNDS PER SQUARE INCH)

2 WIRE HOSE 100R16

PART NUMBER	HOSE I.D.
251606	3/8
251608	1/2



HOSE

2 FIBER BRAND 100R3

RECOMMENDED FOR HYDRAULIC OIL LINES,
ANTIFREEZE SOLUTIONS, OR WATER

TUBE: TYPE C, BLACK, OIL AND ABRASION
RESISTANT, SYNTHETIC RUBBER

REINFORCEMENT: TWO FIBER BRAIDS

COVER: TYPE A, BLACK, OIL AND ABRASION
RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE: -40° TO +200° F

COUPLINGS AVAILABLE: CRIMP

PART NUMBER	I.D.	O.D.	WORKING PRESSURE	MINIMUM BURST	BEND RADIUS	WEIGHT PER CFT
250304	1/4	.56	1250	5000	3	13
250305	5/16	.69	1200	4800	4	18
250306	3/8	.75	1125	4500	4	21
250308	1/2	.94	1000	4000	5	31
250312	3/4	1.25	750	3000	6	49
250316	1	1.50	565	2250	8	61
250320	1 1/4	1.75	375	1500	10	72

WORKING AND MINIMUM BURST PRESSURES ARE STATED IN P.S.I.,
(POUNDS PER SQUARE INCH)



HOSE

SUCTION HOSE 100R4

LARGE DIAMETER RETURN AND SUCTION HOSE
100R4, MEETS FLAME RESISTANT ACCEPTANCE
DESIGNATION U.S. MSHA 2G

RECOMMENDED FOR PETROLEUM AND WATER BASE
HYDRAULIC FLUIDS IN SUCTION LINES OR IN LOW
PRESSURE RETURN LINES

TUBE: TYPE C, BLACK, SYNTHETIC RUBBER

REINFORCEMENT: BRAIDED FIBER REINFORCED
WITH A SPIRAL WIRE TO PREVENT COLLAPSE

COVER: TYPE A, BLACK, OIL AND ABRASION
RESISTANT, SYNTHETIC RUBBER

TEMPERATURE RANGE: -40° TO +200° F

COUPLINGS AVAILABLE: CRIMP

PART NUMBER	I.D.	O.D.	WORKING PRESSURE	MINIMUM BURST	BEND RADIUS	WEIGHT PER CFT
250412	3/4	1.25	300	1200	5	48
250416	1	1.49	250	1000	6	60
250420	1 1/4	1.78	200	800	8	60

WORKING AND MINIMUM BURST PRESSURES ARE STATED IN P.S.I.
(POUNDS PER SQUARE INCH)

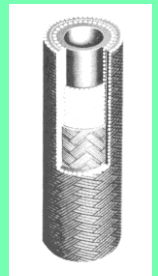


HOSE

FIBER COVERED 100R5

HYDRAULIC HOSE 1005R D.O.T. APPROVED. RECOMMENDED FOR MEDIUM PRESSURE HYDRAULIC PETROLEUM BASED OIL LINES IN IMPULSE APPLICATIONS; GASOLINE, LUBE OIL AND FUEL LINES IN APPLICATIONS SUCH AS AIR BRAKES, POWER STEERING, FUEL FILTERS, TURBO CHARGER OIL SUPPLIES, TILT CAB CYLINDERS, TRANSMISSION COOLANT, ENGINE COOLANT AND FILTRATION LINES. 6C5C

TUBE: TYPE C BLACK, OIL AND HEAT RESISTANT SYNTHETIC RUBBER.



REINFORCEMENT: ONE BRAID OF HIGH TENSILE, CARBON STEEL WIRE OVER ONE BRAID OF POLYESTER.

COVER: BLACK OIL AND MILDEW RESISTANT POLYESTER BRAID.

TEMPERATURE RANGE: -40° TO +200° F.

COUPLINGS AVAILABLE: REUSABLE

PART NUMBER	I.D.	O.D.	WORKING PRESSURE	MINIMUM BURST	BEND RADIUS	WEIGHT PER CFT
250503	3/16	.52	3000	12000	3.00	15
250504	1/4	.58	3000	12000	3.38	18
250505	5/16	.67	2250	9000	4.00	23
250508	13/32	.77	2000	8000	4.62	26
250510	1/2	.92	1750	7000	5.50	36
250512	5/8	1.08	1500	6000	6.50	45

WORKING AND MINIMUM BURST PRESSURES ARE STATED IN P.S.I.
(POUNDS PER SQUARE INCH)



HOSE

4 SPIRAL 100R12

4-SPIRAL WIRE HOSE MEETS FLAME RESISTANCE DESIGNATION U.S. MSHA 2G
FOR BIODEGRADABLE HYDRAULIC FLUIDS. RECOMMENDED FOR EXTREMELY HIGH
PRESSURE HYDRAULIC APPLICATIONS.

TUBE: BLACK OIL RESISTANT, SYTHETIC RUBBER.

**REINFORCEMENT: 4 ALTERNATING LAYERS OF SPIRALED HIGH
TENSILE STEEL.**

COVER: BLACK, OIL RESISTANT, SYNTHETIC RUBBER.

TEMPERATURE RANGE: -40° TO +250° F.

GS COUPLINGS AND PERMANENT PCS COUPLINGS

EFG4K HOSE 100R12

PART NUMBER	I.D	WORKING PRESSURE	MINIIMUM BURST	PACKAGE
251208	1/2	4000	16000	100 FT
251212	3/4	4000	16000	100 FT
251216	1	4000	16000	100 FT
251220	1 1/4	4000	12000	50 FT

G3K HOSE 100R12

PART NUMBER	I.D.	WORKING PRESSURE	MINIMUM BURST	PACKAGE
251224	1 1/2	3000	12000	50 FT
251232	2	3000	12000	50 FT

WORKING & MINIMUM BURST PRESSURES ARE STATED IN PSI*
*POUNDS PER SQUARE INCH





HOSE

BRAID 3

TWM MINE HYDRAULIC HOSE MEETS FLAME
RESISTANCE ACCEPTANCE DESIGNATION
"U.S MSHA 2G"

RECOMMENDED FOR HIGH PRESSURE HYDRAULIC
LINES. SPECIFICALLY DESIGNED FOR MINING
AND OTHER APPLICATIONS WHERE EXTERIOR
DAMAGE RESISTANCE IS IMPORTANT

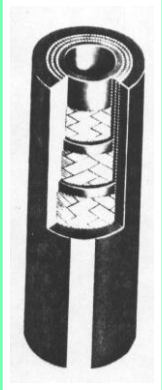
TUBE: TYPE C BLACK, OIL RESISTANT, SYNTHETIC
RUBBER

REINFORCEMENT: THREE BRAIDS OF HIGH TENSILE
STEEL WIRE

COVER: TYPE A BLACK, OIL RESISTANT, SYNTHETIC RUBBER
WITHINLAID YELLOW STRIPE FOR EASY AND PERMANENT
IDENTIFICATION IN UNDERGROUND APPLICATIONS. COVER
HAS GOOD FLAME AND ABRASION RESISTANCE

TEMPERATURE RANGE: -40° TO +200° F

COUPLINGS AVAILABLE: CRIMP AND REUSABLE



PART NUMBER	I.D.	O.D.	WORKING PRESSURE	MINIMUM BURST	BEND RADIUS	WEIGHT PER CFT
250912	3/4	1.31	4000	16000	11	104
250916	1	1.66	3500	14000	13	150

WORKING AND MINIMUM BURST PRESSURES ARE STATED IN P.S.I.,
(POUNDS PER SQUARE INCH)



HOSE

PYTHON LOCK-ON HOSE

RECOMMENDED: FOR AIR, WATER, OIL, ANTI-FREEZE, AND DIESEL FUEL

NITRILE TUBE AND COVER. NON CONDUCTIVE. HIGH OIL RESISTANCE. MEETS MSHA 2G
FLAME RESISTANCE.

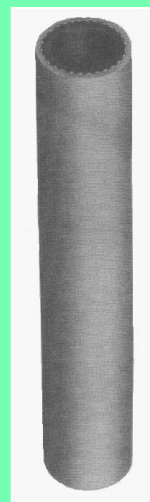
TEMPERATURE RANGE IS -20°F TO 212°F. HOSE CLAMPS ARE REQUIRED FOR TEMPERATURES
ABOVE 160°F

3/8 I.D.

PART NUMBER	O.D.	COLOR	BEND RADIUS	WEIGHT PER CFT
2500061	.61	BLACK	3	11
2500063	.61	RED	3	11
2500065	.61	YELLOW	3	11
2500067	.61	BLUE	3	11
2500069	.61	GRAY	3	11

1/2 I.D.

PART NUMBER	O.D.	COLOR	BEND RADIUS	WEIGHT PER CFT
2500081	.75	BLACK	5	15
2500083	.75	RED	5	15
2500085	.75	YELLOW	5	15
2500087	.75	BLUE	5	15
2500089	.75	GRAY	5	15



5/8 I.D. BLACK PYTHON LOCK-ON HOSE

PART #25000010



HOSE

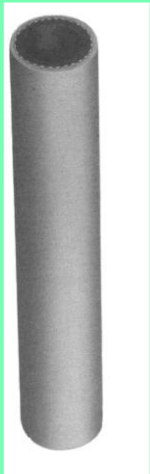
ADAPTA FLEX MULTI PURPOSE HOSE

RECOMMENDED FOR AIR AND WATER APPLICATIONS REQUIRING MAXIMUM FLEXIBILITY.
OUTSTANDING RESISTANCE TO HEAT AND OZONE.

REINFORCEMENT: SYNTHETIC, HIGH TENSILE TEXTILE CORD.

COUPLINGS: POWER CRIMP

RED HOSE



PART NUMBER	I.D.	O.D.	WORKING PRESSURE	BEND RADIUS	WEIGHT PER CFT
2500004	1/4	.47	200	3.0	.08
2500006	3/8	.66	200	3.0	.14
2500008	1/2	.81	200	5.0	.20
2500010	5/8	.93	200	6.0	.24
2500012	3/4	1.08	200	6.0	.30
2500016	1	1.39	200	8.0	.46

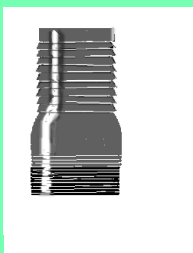
WORKING PRESSURES ARE STATED IN P.S.I.
(POUNDS PER SQUARE INCH)

BLACK HOSE

PART NUMBER	I.D.	O.D.	WORKING PRESSURE	BEND RADIUS	WEIGHT PER CFT
250004	1/4	.47	200	3.0	.08
250006	3/8	.66	200	3.0	.14
250008	1/2	.81	200	5.0	.19
250010	5/8	.93	200	6.0	.23
250012	3/4	1.08	200	6.0	.29
250016	1	1.39	200	8.0	.44
250020	1-1/4	1.73	250	10.0	.68
250024	1-1/2	1.98	250	12.0	.79

COMBINATION NIPPLES

ZINC PLATED



SIZE	MFG. NUMBER	PART NUMBER
3/4	HAPS-3	61965
1	HAPS-4	61966
1-1/4	HAPS-5	61967
1-1/2	HAPS-6	61968
2	HAPS-8	61970



HOSE

ADAPTA FLEX AIR HOSE

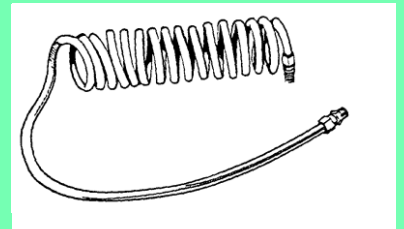
I.D.	PART NUMBER	PKG
3/8	62010	25 FT
3/8	62011	50 FT



POLYURETHANE RECOIL AIR HOSE

GREEN	HOSE I.D	PIPE THREAD	PART NUMBER	PACKAGE
RECOIL	1/4	1/4	62019	10 FT.

HOSE I.D.	PIPE THREAD	PART NUMBER	PKG.
1/4	1/4	62020	10 FT
1/4	1/4	62021	20 FT
1/4	1/4	62022	30 FT
3/8	1/4	62023	20 FT
3/8	1/4	62024	30 FT
3/8	3/8	62025	20 FT
3/8	3/8	62026	30 FT



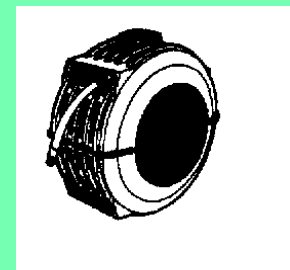
NYLON RECOIL AIR HOSE

HOSE I.D.	PIPE THREAD	PART NUMBER	PKG.
1/4	1/4	62027	25 FT

RETRACTABLE AIR HOSE

PLASTIC CASE W/RUBBER HOSE

HOSE I.D.	DESCRIPTION	PART NUMBER
3/8	50 FT REEL	62012
1/2	50 FT REEL	62014



METAL CASE W/POLYURETHANE HOSE

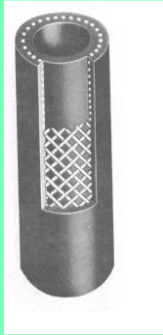
HOS I.D.	DESCRIPTION	PART NUMBER
3/8	50 FT REEL	62013



HOSE

FUEL LINE HOSE

FLH FUEL AND OIL HOSE 3 OR 2, TYPE 1. RECOMMENDED FOR CONVEYING GASOLINE, OIL OR DIESEL FUEL. MEETS OR EXCEEDS REQUIREMENTS OF SAE 3 OR 2 TYPE 1



TUBE: TYPE C BLACK, SYNTHETIC RUBBER.
 REINFORCEMENT: ONE BRAIDED PLY.
 COVER: TYPE A BLACK, OIL AND OZONE RESISTANT SYNTHETIC RUBBER.
 TEMPERATURE RANGE: -40° TO +200° F.
 COUPLINGS AVAILABLE: CRIMP AND REUSABLE

PART NUMBER	I.D.	O.D.	WORKING PRESSURE	MINIMUM BURST	BEND RADIUS	WEIGHT PER CFT
253004	1/4	.48	175	700	3	8
253005	5/16	.54	175	700	4	9
253006	3/8	.60	175	700	4	11

WORKING AND MINIMUM BURST PRESSURES ARE STATED IN P.S.I.
 (POUNDS PER SQUARE INCH)

HEATER HOSE



I.D.	PART NUMBER	PACKAGE
5/8	62003	50FT
3/4	62004	50FT
1	62005	50FT

HIGH PRESSURE WASHER HOSE

PART#MSEXD20254 1/4 F.P. SWIVEL X 25 FT HOSE

PART#MSEX17781 1/4 X 25 FT HI-PRESS HOSE

3/8 PRESSURE WASHER HOSE

3000 PSI 250606



HOSE

MATERIAL HANDLING HOSE

RECOMMENDED FOR: TRANSFER OF DRY BULK MATERIALS VIA SUCTION, PNEUMATIC OR GRAVITY SYSTEMS WHERE STATIC CONDUCTIVE HOSE IS REQUIRED.

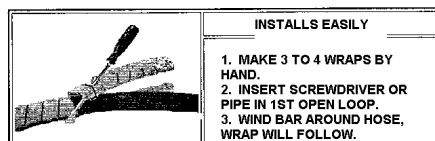
TEMPERATURE: -40°F TO +158°F CONTINUOUS SERVICE

CONSTRUCTION: TUBE: TYPE G PVC CLEAR
REINFORCEMENT: RIGID THERMOPLASTIC HELIX
EMBEDDED STATIC WIRE

PART NUMBER	I.D.	O.D.	WORKING PRESSURE	BEND RADIUS	WEIGHT PER FOOT
254132	2	2.37	40	4.0	.58
254140	2.5	3.01	40	4.0	.79
254148	3	3.5	35	6.0	1.06
254164	4	4.54	35	8.0	1.68

HEAVY DUTY HOSE WRAP

I.D.	PART NUMBER	PACKAGE
1/2	25550	100 FT
3/4	25551	100 FT
1	25552	100 FT
1-1/4	25553	100 FT
1-1/2	25554	100 FT
2	25555	100 FT
2-1/2	25556	50 FT
3	25557	50 FT
3-1/2	25558	30 FT

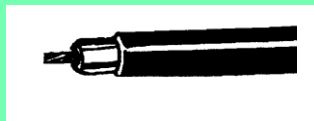




IGNITION

IGNITION

PLUG WIRES



MATERIAL	PART NUMBER	PACKAGE
HYPALON/COPPER	53287	100 FT
HYPALON/CARBON	53288	100 FT
SILICONE/STEEL	53289	100 FT

53287 IS HYPALON INSULATED 7MM, BLACK IN COLOR, HAS A COPPER CONDUCTOR AND IS RECOMMENDED FOR STANDARD DUTY. IT IS UNAFFECTED BY OIL, GREASE OR MOISTURE AND OPERATES SATISFACTORILY BETWEEN THE TEMPERATURES OF -65° TO +300° FAHRENHEIT AND -54° TO +149° CENTIGRADE.

53288 IS RADIO SUPPRESSION HYPALON INSULATED 7MM, BLACK IN COLOR, HAS A NON-METALLIC REINFORCED CARBON CONDUCTOR. IT IS EQUAL TO ORIGINAL EQUIPMENT CABLE AND MADE TO SUPPRESS ELECTRICAL OSCILLATIONS RADIATING FROM SPARK PLUGS.

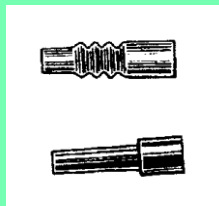
53289 IS SILICONE INSULATED 7MM, ORANGE IN COLOR, HAS A STEEL CONDUCTOR AND OPERATES SATISFACTORILY BETWEEN TEMPERATURES OF -65° TO +450° FAHRENHEIT AND -54° TO +232° CENTIGRADE FOR LONG PERIODS OF TIME. RECOMMENDED FOR HI-PERFORMANCE EQUIPMENT WHERE EXTREME HEAT IS PRESENT FOR LONG PERIODS OF TIME.

IGNITION TERMINALS



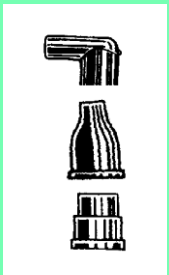
DESCRIPTION	PART NUMBER	PACKAGE
90° DISTRIBUTOR TERMINAL	52047	50
90° PLUG TERMINAL	52048	50
STRAIGHT PLUG TERMINAL	52049	50
BRASS DISTRIBUTOR TERMINAL	52050	50
DISTRIBUTOR HAIR PIN	52051	100

PLUG BOOTS



MATERIAL	PART NUMBER	PACKAGE
HYPALON	52430	25
HYPALON	52431	25
SILICONE	52432	25

NIPPLES



90° DISTRIBUTOR NIPPLE	STRAIGHT DISTRIBUTOR NIPPLE	COIL NIPPLE
52433	52434	52435

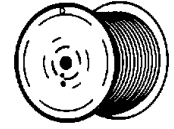
PACKAGE QUANTITY IS 25



IGNITION

GXL WIRE

SIZE	PART NUMBER	PACKAGE
20 GAUGE	53200	250 FT ROLL
20 GAUGE	53201	500 FT ROLL
18 GAUGE	53202	250 FT ROLL
18 GAUGE	53203	500 FT ROLL
16 GAUGE	53204	250 FT ROLL
16 GAUGE	53205	500 FT ROLL
14 GAUGE	53206	250 FT ROLL
14 GAUGE	53207	500 FT ROLL
12 GAUGE	53208	250 FT ROLL
12 GAUGE	53209	500 FT ROLL
10 GAUGE	53210	250 FT ROLL
10 GAUGE	53211	500 FT ROLL
8 GAUGE	53212	250 FT ROLL
8 GAUGE	53213	500 FT ROLL



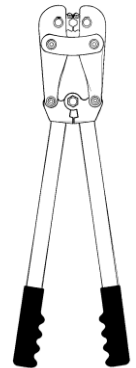
TO DESIGNATE COLOR PREFERENCE ON GXL WIRE ADD TO THE
END OF THE WIRE PART NUMBER THE FOLLOWING CODE:
BLACK 1, BROWN 2, RED 3, ORANGE 4, YELLOW 5, GREEN 6, BLUE 7,
WHITE 8, TAN 9, GRAY 10. A GREEN 14 GA. 250 FT. WIRE WOULD BE
NUMBERED THUS: 532066

TOOLS

HAND HELD HEX CRIMP TOOL

PART NUMBER 52657

ADJUSTABLE ROTATING DIES ALWAYS IN TOOL. 26" OVERALL
LENGTH. RATCHET ASSURES COMPLETED CRIMP. CONVENIENT
RELEASE LEVER. COMFORTABLE HAND GRIPS





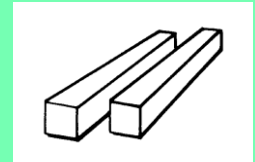
KEY STOCK

KEY STOCK

SQUARE KEY STOCK

12" LENGTHS

SIZE	PART NUMBER
1/8	70250
3/16	70251
1/4	70252
5/16	70253
3/8	70254
7/16	70255
1/2	70256
5/8	70257
3/4	70258



SQUARE KEY STOCK, PLAIN, UNDERSIZED

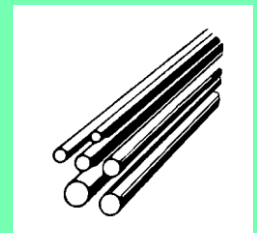
12" LENGTHS

SIZE	PART NUMBER
1/8	70290
3/16	70291
1/4	70292
5/16	70293
3/8	70294
7/16	70295
1/2	70296
5/8	70297

ROUND KEY STOCK

12" LENGTHS

SIZE	PART NUMBER
1/8	70260
3/16	70261
1/4	70262
5/16	70263
3/8	70264
7/16	70265
1/2	70266

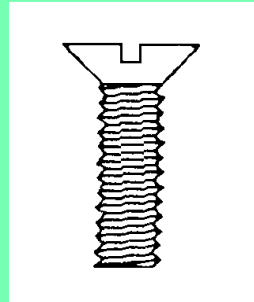




MACHINE SCREWS

MACHINE SCREWS FLAT HEAD ZINC PLATED STEEL, SLOTTED

LENGTH	DIAMETER AND PITCH				
	5-40	6-32	8-32	10-24	10-32
1/4	13102	13138	13174	13210	13246
3/8	13104	13140	13176	13212	13248
1/2	13106	13142	13178	13214	13250
3/4	13108	13144	13180	13216	13252
7/8	13110	13146	13182	13218	13254
1	13112	13148	13184	13220	13256
1 1/4	13114	13150	13186	13222	13258
1 1/2	13116	13152	13188	13224	13260
1 3/4	13118	13154	13190	13226	13262
2	13120	13156	13192	13228	13264
2 1/4		13158	13194	13230	13266
2 1/2		13160	13196	13232	13268
3		13162	13198	13234	13270
3 1/2			13200	13236	13272
4		13166	13202	13238	13274
4 1/2				13240	
5				13242	
6				13244	



ALL PACKAGE QUANTITIES ARE 100

LENGTH	DIAMETER AND PITCH				
	12-24	1/4-20	5/16-18	3/8-16	1/2-13
3/8	13284	13320			
1/2	13286	13322	13358	13394	
3/4	13288	13324	13360	13396	13432
7/8	13290	13326	13362	13398	
1	13292	13328	13364	13400	13436
1 1/4	13294	13330	13366	13402	13438
1 1/2	13296	13332	13368	13404	
1 3/4	13298	13334	13370	13406	13442
2	13300	13336	13372	13408	13444
2 1/4	13302	13338	13374	13410	13446
2 1/2	13304	13340	13376	13412	13448
3	13306	13342	13378	13414	13450
3 1/2		13344	13380	13416	13452
4		13346	13382	13418	13454
4 1/2		13348	13384	13420	13456
5		13350	13386	13422	13458
6		13352	13388	13424	13460

LENGTH	PACKAGE QUANTITIES DIAMETER				
	12	1/4	5/16	3/8	1/2
1/4 - 3 1/2	100	100	100	100	50
4 - 6	100	100	50	50	25

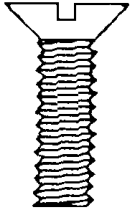


MACHINE SCREWS

FLAT HEAD CON'T

STAINLESS STEEL SLOTTED

LENGTH	DIAMETER AND PITCH					
	6-32	8-32	10-24	10-32	12-24	1/4-20
1/4	13470	13480	13500	13490	13510	13520
3/8	13471	13481	13501	13491	13511	13521
1/2	13472	13482	13502	13492	13512	13522
3/4	13473	13483	13503	13493	13513	13523
1	13474	13484	13504	13494	13514	13524
1 1/4	13475	13485	13505	13495	13515	13525
1 1/2	13476	13486	13506	13496	13516	13526
2	13477	13487	13507	13497	13517	13527

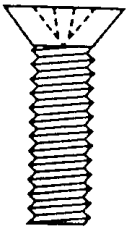


BRASS SLOTTED

LENGTH	DIAMETER AND PITCH					
	6-32	8-32	10-24	10-32	12-24	1/4-20
1/4	13530	13540	13560	13550	13570	13580
3/8	13531	13541	13561	13551	13571	13581
1/2	13532	13542	13562	13552	13572	13582
3/4	13533	13543	13563	13553	13573	13583
1	13534	13544	13564	13554	13574	13584
1 1/4	13535	13545	13565	13555	13575	13585
1 1/2	13536	13546	13566	13556	13576	13586
2	13537	13547	13567	13557	13577	13587

PHILLIPS HEAD ZINC PLATED STEEL

LENGTH	DIAMETER AND PITCH					
	6-32	8-32	10-24	10-32	12-24	1/4-20
1/4	13620	13630				
3/8	13621	13631	13651	13641		13671
1/2	13622	13632	13652	13642	13662	13672
3/4	13623	13633	13653	13643	13663	13673
1	13624	13634	13654	13644	13664	13674
1 1/4	13625	13635	13655	13645		13675
1 1/2	13626	13636	13656	13646	13666	13676
2			13657		13668	13677
2 1/2					13669	13678
3			13659		13670	13679



ALL PACKAGE QUANTITIES ARE 100

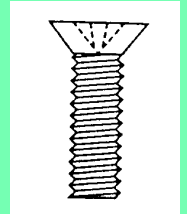


MACHINE SCREWS

FLAT HEAD CON'T

PHILLIPS STAINLESS STEEL

LENGTH	2-56	4-40	6-32	8-32	PACKAGE
3/16	14200	14210			100
1/4	14201	14211	14225	14240	
5/16	14202	14212	14226	14241	
3/8	14203	14213	14227	14242	100
7/16	14204	14214	14228	14243	
1/2	14205	14215	14229	14244	
5/8		14216	14230	14245	100
3/4		14217	14231	14246	
7/8		14218	14232	14247	
1		14219	14233	14248	100
1-1/4		14220	14234	14249	
1-1/2		14221	14235	14250	
2				14251	100



LENGTH	10-24	10-32	1/4-20	PACKAGE
1/4	14255	14270		100
5/16	14256	14271		
3/8	14257	14273		
7/16	14258	14274		100
1/2	14259	14275	14286	
5/8	14260	14276		
3/4	14261	14277	14287	100
7/8	14262	14278		
1	14263	14279	14288	
1-1/4	14264	14280	14289	100
1-1/2	14265	14281	14290	
1-3/4		14282	142901	
2	14266	14283	14291	100
2-1/2	14267	14284	14292	
3	14268	14285	14293	
3-1/2			142932	25
4			14294	
6			14296	



MACHINE SCREWS

METRIC

SLOTTED ZINC PLATED

SIZE	CHEESE HEAD	PAN HEAD	FLAT HEAD	SIZE	CHEESE HEAD	PAN HEAD	FLAT HEAD
M3X3	15001			M5X6	15041	15170	15292
M3X4	15002	15131	15260	M5X8	15042	15171	15293
M3X5	15003	15132	15261	M5X10	15043	15172	15294
M3X6	15004	15133	15262	M5X12	15044	15173	15295
M3X8	15005	15134	15263	M5X16	15045	15174	15296
M3X10	15006	15135	15264	M5X20	15046	15175	15297
M3X12	15007	15136	15265	M5X25	15047	15176	15298
M3X16	15008	15137	15266	M5X30	15048	15177	15299
M3X20	15009	15138	15267	M5X35	15049	15178	15300
M3X25	15010	15139	15268	M5X40	15050	15179	15301
M3X30	15011	15140	15269	M5X45	15051	15180	15302
M3X35	15012	15141	15270	M5X50	15052	15181	15303
M3X40	15013	15142	15271	M5X55	15053	15182	15304
M3X50	15014	15143	15272	M5X60	15054	15183	15305
M3X55	15015	15144		M5X70	15055	15184	15306
M3X60	15016	15145	15273	M5X80	15056		15307
M4X4	15020	15150		M6X8	15060	15188	15310
M4X5	15021	15151	15275	M6X10	15061	15189	15311
M4X6	15022	15152	15276	M6X12	15062	15190	15312
M4X8	15023	15153	15277	M6X16	15063	15191	15313
M4X10	15024	15154	15278	M6X20	15064	15192	15314
M4X12	15025	15155	15279	M6X25	15065	15193	15315
M4X16	15026	15156	15280	M6X30	15066	15194	15316
M4X20	15027	15157	15281	M6X35	15067	15195	15317
M4X25	15028	15158	15282	M6X40	15068	15196	15318
M4X30	15029	15159	15283	M6X45	15069	15197	15319
M4X35	15030	15160	15284	M6X50	15070	15198	15320
M4X40	15031	15161	15285	M6X55	15071	15199	15321
M4X45	15032	15162	15286	M6X60	15072	15200	15322
M4X50	15033	15163	15287	M6X70	15073	15201	15323
M4X55	15034	15164	15288	M6X80	15074	15202	15324
M4X60	15035	15165	15289	M6X90	15075		15325
M5X5	15040			M6X100	15076		15326



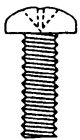
MACHINE SCREWS

METRIC CON'T

PHILLIPS STEEL ZINC PLATED

SIZE	CHEESE HEAD	PAN HEAD	FLAT HEAD	SIZE	CHEESE HEAD	PAN HEAD	FLAT HEAD
M3X4	15490	15580		M5X6	15515	15610	
M3X5	15491	15581	15640	M5X8	15516	15611	15666
M3X6	15492	15582	15641	M5X10	15517	15612	15667
M3X8	15493	15583	15642	M5X12	15518	15613	15668
M3X10	15494	15584	15643	M5X16	15519	15614	15669
M3X12	15495	15585	15644	M5X20	15520	15615	15670
M3X16	15496	15586	15645	M5X25	15521	15616	15671
M3X20	15497	15587	15646	M5X30	15522	15617	15672
M3X25	15498	15588	15647	M5X35	15523	15618	15673
M3X30	15499	15589	15648	M5X40	15524	15619	15674
M3X35		15590	15649	M5X45		15620	15675
M3X40		15591	15650	M5X50		15621	15676
M3X50	15500			M6X8	15528	15625	
M4X4				M6X10	15529	15626	15677
M4X5	15505	15595		M6X12	15530	15627	15678
M4X6	15506	15596	15654	M6X16	15531	15628	15679
M4X8	15507	15597	15655	M6X20	15532	15629	15680
M4X10	15508	15598	15656	M6X25	15533	15630	15681
M4X12	15509	15599	15657	M6X30	15534	15631	15682
M4X16	15510	15600	15658	M6X35	15535	15632	15683
M4X20	15511	15601	15659	M6X40	15536	15633	15684
M4X25	15512	15602	15660	M6X45		15634	15685
M4X30	15513	15603	15661	M6X50		15635	15686
M4X35		15604	15662	M6X60	15539		15687
M4X40		15605	15663				
M4X45		15606					
M4X50		15607					

PHILLIPS PAN HEAD MACHINE SCREWS STAINLESS STEEL



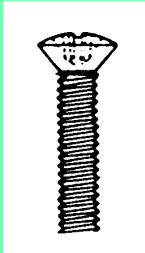
LENGTH	M4	M5	M6	PACKAGE
10	05900	059009	05920	100
12	059000		059201	100
16	059001	05901	05921	100
20		05902	05922	100
25	059003	05903	05923	100
30			05924	100
35		05905		100
40	059006	05906		25
45		05907		25
50		05908		25
65			05931	10



MACHINE SCREWS

OVAL HEAD

PHILLIPS STAINLESS STEEL



LENGTH	4-40	6-32	8-32
3/16	14300		
1/4	14301	14315	14330
5/16	14302	14316	14331
3/8	14303	14317	14332
7/16	14304	14318	14333
1/2	14305	14319	14334
5/8	14306	14320	14335
3/4	14307	14321	14336
7/8	14308	14322	14337
1	14309	14323	14338
1-1/4	14310	14324	14339
1-1/2	14311	14325	14340
1-3/4			143401
2			14341
3			14343

LENGTH	10-24	10-32	1/4-20
1/4		14360	
5/16		14361	
3/8	14345	14362	
7/16		14363	
1/2	14346	14364	14380
5/8	14347	14365	
3/4	14348	14366	14381
7/8	14349		
1	14350	14367	14382
1-1/4	14351	14368	14383
1-1/2	14352	14369	14384
1-3/4		14370	143841
2	14353	14371	14385
2-1/2	14354	14372	14386
3	14355	14373	14387

PACKAGE QUANTITIES ARE 100

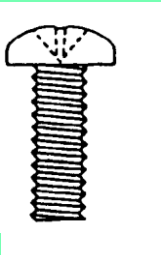


MACHINE SCREWS

PAN HEAD

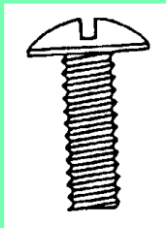
PHILLIPS PAN HEAD STEEL ZINC PLATED

LENGTH	4-40	6-32	8-32	10-24	10-32	12-24	1/4-20
1/4	14000	14010	14020	14040	14030		
5/16	14001	14011	14021	14041	14031		
3/8	14002	14012	14022	14042	14032		14062
1/2	14003	14013	14023	14043	14033		14063
5/8	14004	14014	14024	14044	14034		14064
3/4	14005	14015	14025	14045	14035	14055	14065
7/8	14006	14016	14026	14046	14036		14066
1	14007	14017	14027	14047	14037	14057	14067
1 1/4	14008	14018	14028	14048	14038		14068
1 1/2	14009	14019	14029	14049	14039	14059	14069
1-3/4	140091	140191	140291	14050	140391		
2	140092	140192	140292	14051	140392		14070
2-1/4				14052			14071
2-1/2		140194	140294	14053	140393		14072
3			140295	14054	140394		14073
4							14074



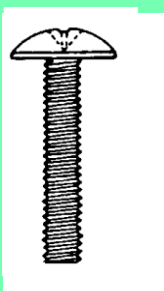
SLOTTED TRUSS HEAD

LENGTH	DIAMETER			
	10-24	1/4-20	5/16-18	3/8-16
1/2	16042	16091	16109	16125
3/4	16044	16093	16111	16127
1	16046	16095	16113	16129
1 1/2	16048	16097	16115	16131
2	16050	16099	16117	16133
3	16054	16103		



PHILLIPS TRUSS HEAD

LENGTH	DIAMETER				
	6-32	8-32	10-24	10-32	1/4
1/4	14700	14706			
3/8	14701	14707	14713	14719	14723
1/2	14702	14708	14714	14720	14724
5/8	14703	14709	14715	14721	
3/4	14704	14710	14716	14722	14725
1	14705	14711	14717		14726
1 1/4		14712	14718		14727
1 1/2					14728



ALL PACKAGE QUANTITIES ARE 100

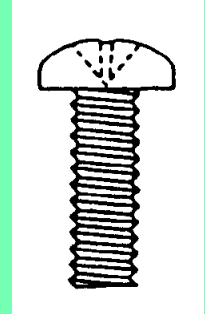


MACHINE SCREWS

PAN HEAD CON'T

PHILLIPS STAINLESS STEEL

LENGTH	2-56	4-40	6-32	8-32
1/8	14100			
3/16	14101	14110	14125	14140
1/4	14102	14111	14126	14141
5/16	14103	14112	14127	14142
3/8	14104	14113	14128	14143
7/16	14105	14114	14129	14144
1/2	14106	14115	14130	14145
5/8		14116	14131	14146
3/4		14117	14132	14147
7/8		14118	14133	14148
1		14119	14134	14149
1-1/4		14120	14135	14150
1-1/2		14121	14136	14151
1-3/4			14137	14152
2				14153



LENGTH	10-24	10-32	1/4-20
1/4	14160	14175	
5/16	14161	14176	
3/8	14162	14177	141898
7/16	14163	14178	
1/2	14164	14179	14190
5/8	14165	14180	
3/4	14166	14181	14191
7/8	14167	14182	
1	14168	14183	14192
1-1/4	14169	14184	14193
1-1/2	14170	14185	14194
1-3/4	141701	14186	141941
2	14171	14187	14195
2-1/4			141951
2-1/2	14172	14188	14196
3	14173	14189	14197
3-1/2			14198
4		141891	14199

PACKAGE QUANTITIES ARE 100

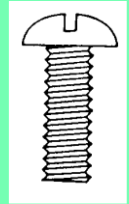


MACHINE SCREWS

ROUND HEAD

ZINC PLATED STEEL, SLOTTED

LENGTH	DIAMETER AND PITCH				
	5-40	6-32	8-32	10-24	10-32
1/4	12102	12138	12174	12210	12246
3/8	12104	12140	12176	12212	12248
1/2	12106	12142	12178	12214	12250
3/4	12108	12144	12180	12216	12252
7/8	12110	12146	12182	12218	12254
1	12112	12148	12184	12220	12256
1 1/4	12114	12150	12186	12222	12258
1 1/2	12116	12152	12188	12224	12260
1 3/4	12118	12154	12190	12226	12262
2	12120	12156	12192	12228	12264
2 1/4		12158	12194	12230	12266
2 1/2		12160	12196	12232	12268
3		12162	12198	12234	12270
3 1/2			12200	12236	12272
4		12166	12202	12238	12274
4 1/2			12204	12240	
5			12206	12242	12278
6		12172	12208	12244	12280
ALL PACKAGE QUANTITIES ARE 100					



LENGTH	DIAMETER AND PITCH				
	12-24	1/4-20	5/16-18	3/8-16	1/2-13
1/4	12282	12318			
3/8	12284	12320	12356		
1/2	12286	12322	12358	12394	
3/4	12288	12324	12360	12396	12432
7/8	12290	12326	12362	12398	
1	12292	12328	12364	12400	12436
1 1/4	12294	12330	12366	12402	12438
1 1/2	12296	12332	12368	12404	12440
1 3/4	12298	12334	12370	12406	12442
2	12300	12336	12372	12408	
2 1/4	12302	12338	12374	12410	
2 1/2	12304	12340	12376	12412	
3	12306	12342	12378	12414	
3 1/2		12344	12380	12416	
4		12346	12382	12418	
4 1/2		12348	12384	12420	
5		12350	12386	12422	
6		12352	12388	12424	

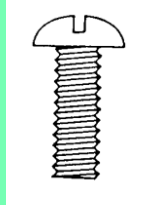
LENGTH	PACKAGE QUANTITIES DIAMETER				
	12	1/4	5/16	3/8	1/2
1/4 - 3 1/2	100	100	100	100	50
4 - 6	100	100	50	50	



MACHINE SCREWS

ROUND HEAD CON'T

STAINLESS STEEL SLOTTED

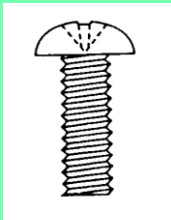


LENGTH	DIAMETER & PITCH					
	6-32	8-32	10-24	10-32	12-24	1/4-20
1/4	12450	12460	12480	12470	12490	12500
3/8	12451	12461	12481	12471	12491	12501
1/2	12452	12462	12482	12472	12492	12502
3/4	12453	12463	12483	12473	12493	12503
1	12454	12464	12484	12474	12494	12504
1-1/4	12455	12465	12485	12475	12495	12505
1-1/2	12456	12466	12486	12476	12496	12506
2	12457	12467	12487	12477	12497	12507
ALL PACKAGES ARE 100						

BRASS SLOTTED

LENGTH	DIAMETER & PITCH					
	6-32	8-32	10-24	10-32	12-24	1/4-20
1/4	12530	12540	12560	12550	12570	12580
3/8	12531	12541	12561	12551	12571	12581
1/2	12532	12542	12562	12552	12572	12582
3/4	12533	12543	12563	12553	12573	12583
1	12534	12544	12564	12554	12574	12584
1-1/4	12535	12545	12565	12555	12575	12585
1-1/2	12536	12546	12566	12556	12576	12586
2	12537	12547	12567	12557	12577	12587
ALL PACKAGES ARE 100						

PHILLIPS ZINC PLATED STEEL



LENGTH	DIAMETER & PITCH				
	6-32	8-32	10-32	10-24	1/4-20
1/4	12620	12630	12640		
3/8	12621	12631	12641	12651	12671
1/2	12622	12632	12642	12652	12672
3/4	12623	12633	12643	12653	12673
1	12624	12634	12644	12654	12674
1-1/4	12625			12655	12675
1-1/2				12656	12676
2				12657	12677
3		12638			
4					12681
ALL PACKAGES ARE 100					

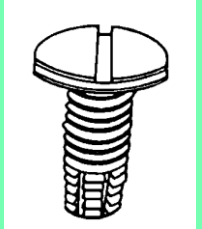


MACHINE SCREWS

THREAD CUTTING STEEL ZINC PLATED

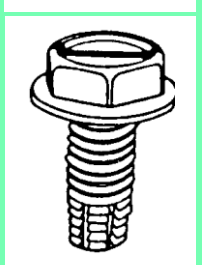
SLOTTED PAN HEAD

LENGTH	6-32	8-32	10-24	10-32	1/4-20
3/8		16151			
1/2		16152	16190	16200	16220
3/4	16143	16153	16192	16201	16222
1			16194	16202	16224
1-1/2			16196	16203	16226



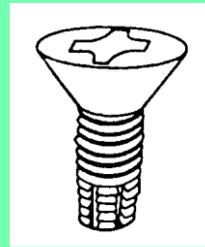
HEX WASHER HEAD

LENGTH	10-24	12-24	1/4-20	5/16-18	3/8-16
3/8			16349		
1/2	16302	16310	16350	16402	
3/4	16304		16352	16404	16452
1	16306		16354	16406	16454
1-1/2			16356		16456



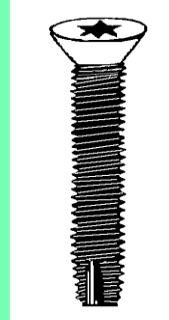
PHILLIPS FLAT HEAD

LENGTH	1/4-20
1-1/2	16499
1-3/4	16500
2	16502
2-1/4	16504
2-1/2	16506
3	16508



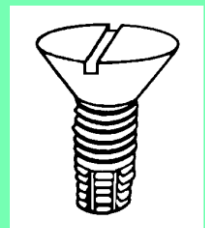
TORX DRIVE FLAT HEAD

LENGTH	1/4-20	5/16-18
1	16517	16528
1-1/4	16518	
1-1/2	16519	16529
1-3/4	16520	16530
2	16521	16531
2-1/4	16522	16532
2-1/2	16523	16533
2-3/4	16524	
3	16525	16535
DRIVER	78511	78512



SLOTTED FLAT HEAD

LENGTH	DIAMETER
	1/4-20
1-1/2	16550
1-3/4	16551
2	16552
2-1/4	16553
2-1/2	16554



ALL PACKAGE QUANTITIES ARE 100

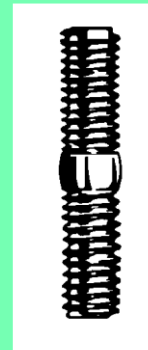


MUFFLER SHOP ITEMS

MUFFLER SHOP ITEMS

METRIC MANIFOLD STUDS

SIZE	PART NUMBER	PACKAGE
M8 X 1.25 X 42	C101600	25
M10 X 1.25 X 50	C101605	25
M10 X 1.50 X 50	C101620	25
7/16-14 X M12 X 1.75 X 65	C101625	25

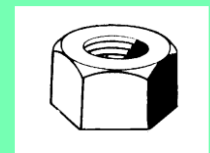


METRIC HEX NUTS

SIZE	PART NUMBER	PACKAGE
M8 X 1.25	31304	50
M10 X 1.50	31305	25
M12 X 1.75	31306	25

FINE THREAD METRIC NUTS

SIZE	PART NUMBER	PACKAGE
M4 X 0.50	31320	50
M5 X 0.50	31321	50
M6 X 0.75	31322	50
M8 X 1.00	31323	50
M10 X 1.00	31324	25
M10 X 1.25	31325	25
M12 X 1.25	31326	25
M12 X 1.50	31327	25
M16 X 1.50	31328	10
M18 X 1.50	31329	10
M20 X 1.50	31330	10
M22 X 1.50	31331	10
M24 X 2.00	31332	10

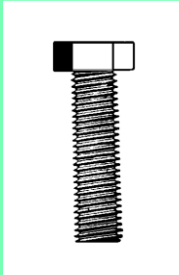




MUFFLER SHOP ITEMS

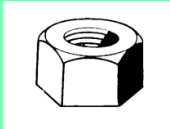
MUFFLER SHOP ITEMS CON'T

FULL THREADED BOLTS



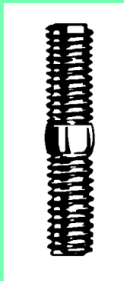
SIZE	GRADE	PART NUMBER	PACKAGE	BULK NUMBER	PACKAGE
5/16 X 1	5	02035	100	P02035	50 LBS
5/16 X 2	2	C101039	50	P101039	
5/16 X 3	2	C101043	50	P101043	
3/8 X 1	5	02064	100	P02064	50 LBS
3/8 X 1-1/2	2	C101066	50	P101066	
3/8 X 2	2	C101068	50	P101068	
3/8 X 2-1/2	2	C101070	50	P101070	50 LBS
3/8 X 3	2	C101072	50	P101072	
3/8 X 4	2	C101074	50	P101074	
3/8 X 5	2	C101076	50	P101076	50 LBS
5/8-11X5 1/2	2	C101095	1		

FINISHED HEX NUTS



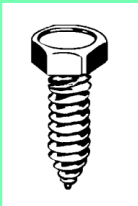
SIZE	PART NUMBER	PACKAGE	BULK NUMBER	PACKAGE
5/16	31010	100	P31010	50 LBS
3/8	31012	100	P31012	
7/16	31014	100	P31014	
1/2	31016	100	P31016	50 LBS

MANIFOLD STUDS



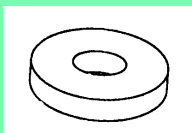
SIZE	DESCRIPTION	PART NUMBER	PACKAGE
3/8 X 2-1/2	CHEVY SHORT	C101500	50
3/8 X 3-1/4	CHEVY LONG	C101505	50
7/16 X 2-1/2	FORD SHORT	C101520	50
7/16 X 4	FORD LONG	C101525	50

HEX HEAD SHEET METAL SCREWS



SIZE	PART NUMBER	PACKAGE	BULK NUMBER	PACKAGE
5/16 X 1-1/4	17277	100	P17277	50 LBS
3/8 X 1-1/4	17283	100	P17283	50 LBS

USS FLAT WASHERS



SIZE	PART NUMBER	PACKAGE	BULK NUMBER	PACKAGE
5/16	37052	250	P37052	50 LBS
3/8	37053	250	P37053	
7/16	37054	100	P37054	
1/2	37055	100	P37055	50 LBS



NUTS

BLIND RIVETS

ALUMINUM

DIAMETER	GRIP RANGE	PART NUMBER	PACKAGE
8-32	.075	32300	50
8-32	.120	32301	50
8-32	.160	32302	50
10-32	.080	32304	50
10-32	.130	32305	50
10-32	.180	32306	50
1/4-20	.080	32308	25
1/4-20	.140	32309	25
1/4-20	.200	32310	25
1/4-20	.260	32311	25
5/16-18	.125	32314	25
5/16-18	.200	32315	25
5/16-18	.275	32316	25
3/8-16	.115	32318	25
3/8-16	.200	32319	25
3/8-16	.285	32320	25

STEEL ZINC PLATED

DIAMETER	GRIP RANGE	PART NUMBER	PACKAGE
8-32	.075	32330	50
8-32	.120	32331	50
8-32	.160	32332	50
10-32	.080	32333	50
10-32	.130	32334	50
10-32	.180	32335	50
1/4-20	.080	32336	25
1/4-20	.140	32337	25
1/4-20	.200	32338	25
1/4-20	.260	32339	25
5/16-18	.125	32340	25
5/16-18	.200	32341	25
5/16-18	.275	32342	10
3/8-16	.115	32343	10
3/8-16	.200	32344	10
3/8-16	.285	32345	10



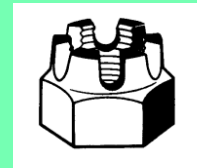
NUTS

NUTS

STEEL ZINC PLATED

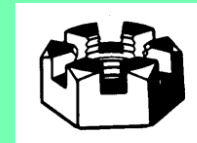
CASTLE NUTS

DIAMETER & PITCH	PART NUMBER	PACK
1/4-28	31084	100
5/16-24	31085	100
3/8-24	31086	100
7/16-20	31087	100
1/2-20	31088	100
9/16-18	31089	100
5/8-18	31090	50
3/4-16	31091	50
7/8-14	31092	25
1-14	31093	25



SLOTTED HEX NUTS

DIAMETER & PITCH	PART NUMBER	PACK
1/4-20	32200	100
5/16-18	32201	100
3/8-16	32202	100
7/16-14	32203	100
1/2-13	32204	100
9/16-12	32205	100
5/8-11	32206	50
3/4-10	32207	50
7/8-9	32208	25
1-8	32209	25
1 1/8-7	32210	10
1 1/4-7	32211	10
1 1/2-6	32212	5



SQUARE NUTS

DIAMETER & PITCH	PART NUMBER	PACK
6-32	32120	100
8-32	32121	100
10-24	32122	100
10-32	32123	100
1/4-20	32124	100
5/16-18	32125	100
3/8-16	32126	100
7/16-14	32127	100
1/2-13	32128	100
5/8-11	32129	50
3/4-10	32130	50
7/8-9	32131	25
1-8	32132	25





NUTS

STEEL ZINC PLATED FINISHED JAM NUTS

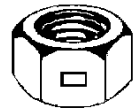
DIAMETER	T.P.I.	USS PART NUMBER	T.P.I.	SAE PART NUMBER	THICKNESS
1/4	20	31060	28	31061	5/32
5/16	18	31062	24	31063	3/16
3/8	16	31064	24	31065	7/32
7/16	14	31066	20	31067	1/4
1/2	13	31068	20	31069	5/16
9/16	12	31070	18	31071	5/16
5/8	11	31072	18	31073	3/8
3/4	10	31074	16	31075	27/64
7/8	9	31076	14	31077	31/64
1	8	31078	14	31079	35/64
1-1/8	7	31080	12	31081	39/64
1-1/4	7	31082	12	31083	23/32

PACKAGE QUANTITIES FOR 1/4 THRU 9/16 IS 100, 5/8 AND 3/4 IS 50, 1" IS 25
1-1/8 AND 1-1/4 IS 10



CENTER LOCK HEX NUTS

DIAMETER	T.P.I.	USS PART NUMBER	T.P.I.	SAE PART NUMBER	PACKAGE
10	24	34004	32	34005	100
1/4	20	34008	28	34009	100
5/16	18	34010	24	34011	100
3/8	16	34012	24	34013	100
7/16	14	34014	20	34015	100
1/2	13	34016	20	34017	100
5/8	11	34020	18	34021	50
3/4	10	34022	16	34023	50



SERRATED HEX FLANGE LOCK NUTS

DIAMETER	T.P.I.	USS PART NUMBER	T.P.I.	SAE PART NUMBER	PACKAGE
1/4	20	34208	28	34209	100
5/16	18	34210	24	34211	100
3/8	16	34212	24	34213	100
7/16	14	34214	20	34215	100
1/2	13	34216	20	34217	100
5/8	11	34220			50
3/4	10	34222			50



K-LOCK NUTS

DIAMETER	PART NUMBER	PACKAGE
4-40	34100	100
5-40	34101	100
6-32	34102	100
8-32	34103	100
10-24	34104	100
10-32	34105	100
1/4-20	34106	100
5/16-18	34107	100
3/8-16	34108	100





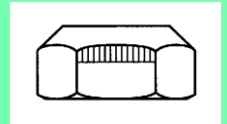
NUTS

LOCK NUTS

TOP LOCK, "AUTOMATION STYLE" NUTS

GRADE C, 150,000 PSI PROOF LOAD
ZINC PLATED AND WAXED

DIAMETER & PITCH	COARSE PART NUMBER	COARSE OR FINE PACK	DIAMETER & PITCH	FINE PART NUMBER
1/4-20	31040	100	1/4-28	31041
5/16-18	31042	100	5/16-24	31043
3/8-16	31044	100	3/8-24	31045
7/16-14	31046	100	7/16-20	31047
1/2-13	31048	100	1/2-20	31049
9/16-12	31050	50	9/16-18	31051
5/8-11	31052	50	5/8-18	31053
3/4-10	31054	50	3/4-16	31055
7/8-9	31056	25	7/8-14	31057
1-8	31058	25	1-14	31059
1 1/8-7	310581	10	1 1/8-12	310590
1 1/4-7	310582	10	1 1/4-12	310591

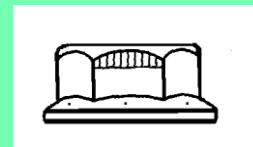


THESE NUTS ARE WAXED WHICH IS A LUBRICANT. TORQUE VALUES SHOULD BE REDUCED BY 25%. LOCKWASHERS ARE NOT NECESSARY, BUT YOU SHOULD USE HARDENED FLATWASHERS

FLANGE LOCK NUTS

GRADE 8 WITH BLACK PHOSPHATE AND OIL

DIAMETER & PITCH	PART NUMBER	PACK
3/8-16	30112	50
1/2-13	30116	50
5/8-11	30120	25
3/4-10	30121	20
7/8-9	30122	10
1-8	30123	10
5/8-18	30130	20



THE TYPICAL USE FOR THESE NUTS IS TO ATTACH PARTS TO TRUCK FRAMES. THEY ARE OILED, SO A REDUCTION OF 25% OF DRY TORQUE VALUES IS SUGGESTED



NUTS

STEEL ZINC PLATED HEX NUTS FINISHED FOR USE WITH GRADE 5 CAP SCREWS



DIAMETER & PITCH	COARSE PART NUMBER	PACK	DIAMETER & PTICH	FINE PART NUMBER
1/4-20	31008	100	1/4-28	31009
5/16-18	31010	100	5/16-24	31011
3/8-16	31012	100	3/8-24	31013
7/16-14	31014	100	7/16-20	31015
1/2-13	31016	100	1/2-20	31017
9/16-12	31018	50	9/16-18	31019
5/8-11	31020	50	5/8-18	31021
3/4-10	31022	50	3/4-16	31023
7/8-9	31024	25	7/8-14	31025
1-8	31026	25	1-14	31027
1 1/8-7	31028	10	1 1/8 12	31029
1 1/4-7	31030	10	1 1/4 12	31031
1 3/8-6	31032	10	1 3/8 12	31033
1 1/2-6	31034	10	1 1/2 12	31035
7/16-14 WITH 5/8 ACROSS FLATS	32170	100	7/16-20 WITH 5/8 ACROSS FLATS	32171

GRADE 5 FINISHED HEX NUTS

PROOF LOAD VARIES WITH SIZE, BUT IT IS EQUAL TO THE TENSILE STRENGTH OF THE GRADE 5 BOLT.
THESE NUTS WERE LOT TESTED TO MEET THESE VALUES



DIAMETER & PITCH	COARSE PART NUMBER	PACK	DIAMETER & PITCH	FINE PART NUMBER
1/4-20	310085	100	1/4-28	310095
5/16-18	310105	100	5/16/24	310115
3/8-16	310125	100	3/8-24	310135
7/16-14	310145	100	7/16-20	310155
1/2-13	310165	100	1/2-20	310175
9/16-12	310185	50	9/16-18	310195
5/8-11	310205	50	5/8-18	310215
3/4-10	310225	50	3/4-16	310235
7/8-9	310245	25	7/8-14	310255

MACHINE SCREW NUTS



DIAMETER & PITCH	PART NUMBER	PACK
4-40	30001	100
5-40	30002	ALL
6-32	30003	
8-32	30004	100
10-24	30005	ALL
10-32	30006	
12-24	30007	100

MACHINE SCREW NUTS HAVE A SMALLER ACROSS FLATS MEASUREMENT THAN FINISHED NUTS



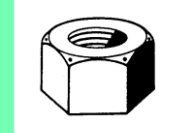
NUTS

STEEL HEAT TREATED

GRADE 8 FINISHED HEX NUTS

ZINC AND YELLOW DICHROMATE

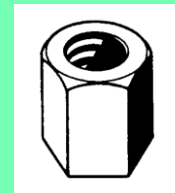
DIAMETER & PITCH	COARSE PART NUMBER	PACK SAME FOR COARSE OR FINE	FINE DIAMETER & PITCH	FINE PART NUMBER
1/4-20	30008	100	1/4-28	30009
5/16-18	30010	100	5/16-24	30011
3/8-16	30012	100	3/8-24	30013
7/16-14	30014	100	7/16-20	30015
1/2-13	30016	100	1/2-20	30017
9/16-12	30018	50	9/16-18	30019
5/8-11	30020	50	5/8-18	30021
3/4-10	30022	50	3/4-16	30023
7/8-9	30024	25	7/8-14	30025
1-8	30026	25	1-14	30027
1 1/8-7	30028	1	1 1/8-12	30029
1 1/4-7	30030	1	1 1/4-12	30031
1 3/8-6	30032	1	1 3/8-12	30033
1 1/2-6	30034	1	1 1/2-12	30035



GRADE 8 NUTS SHOULD BE USED WITH GRADE 8 CAP SCREWS

SAE HIGH NUTS

DIAMETER & PITCH	PART NUMBER	PACK
3/8-24	33100	100
7/16-20	33101	100
1/2-20	33102	100
9/16-18	33103	50
5/8-18	33104	50
3/4-16	33105	50
7/8-14	33106	25
1-14	33107	25



SAE HIGH NUTS ARE TYPICALLY USED WITH U-BOLTS FOR SPRINGS. THEY ARE MEDIUM CARBON HEAT TREATED STEEL AND ARE UNPLATED

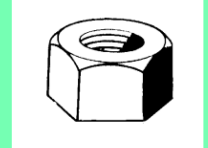


NUTS

STAINLESS STEEL

FINISHED HEX NUTS

DIAMETER	T.P.I.	PART NUMBER	T.P.I.	PART NUMBER	PKG
1/4	20	35100	28	35101	100
5/16	18	35102	24	35103	100
3/8	16	35104	24	35105	100
7/16	14	35106	20	35107	100
1/2	13	35108	20	35109	100
5/8	11	35111	18	35112	50
3/4	10	35113	16	35114	50
7/8	9	35115	14	35116	25
1	8	35117	14	35118	25



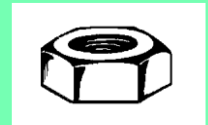
HEAVY HEX NUTS

DIAMETER	PART NUMBER	PACKAGE
1/4-20	32051	100
5/16-18	32052	100
3/8-16	32053	100
7/16-14	32054	100
1/2-13	32055	100
5/8-11	32057	50
3/4-10	32058	50
7/8-9	32059	25
1-8	32060	25



MACHINE SCREW NUTS

DIAMETER	PART NUMBER	PACKAGE
2-56	30198	100
4-40	30199	100
5-40	30200	100
6-32	30201	100
8-32	30202	100
10-32	30203	100
10-24	30204	100
12-24	30205	100



SERRATED FLANGE NUTS

DIAMETER	PART NUMBER	PACKAGE
1/4-20	34230	100
5/16-18	34232	100
3/8-16	34234	100
1/2-13	34238	50



K-LOCK NUTS

SIZE	PART NUMBER	PACKAGE
10-24	35125	100
10-32	35126	100
1/4-20	35128	100
1/4-28	35129	100
5/16-18	35130	100
5/16-24	35131	100
3/8-16	35132	100
3/8-24	35133	100





NUTS

STAINLESS STEEL CON'T

NYLON LOCK NUTS

DIAMETER	T.P.I.	USS PART NUMBER	T.P.I.	SAE PART NUMBER	PACKAGE
4	40	35200			100
5	40	35201			100
6	32	35202			100
8	32	35203			100
10	24	35204	32	35205	100
12	24	35206			100
1/4	20	35207	28	35208	100
5/16	18	35209	24	35210	100
3/8	16	35211	24	35212	100
7/16	14	35213	20	35214	100
1/2	13	35215	20	35216	100
9/16	12	35217	18	35218	100
5/8	11	35219	18	35220	50
3/4	10	35221	16	35222	50
7/8	9	35223	14	35224	25
1	8	35225	14	35226	25



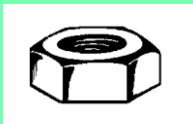
CAP NUTS

SIZE	PART NUMBER	PACKAGE
6-32	32109	100
8-32	32110	100
10-24	32111	100
10-32	32112	100
12-24	321121	100
1/4-20	32113	100
5/16-18	32114	100
3/8-16	32115	100
7/16-14	321151	10
1/2 -13	32116	50
5/8-11	32117	50



JAM NUTS

DIAMETER AND PITCH	COARSE	DIAMETER AND PITCH	FINE	PACK
1/4-20	35060	1/4-28	35061	100
5/16-18	35062	5/16-24	35063	100
3/8-16	35064	3/8-24	35065	100
7/16-14	35066	7/16-20	35067	100
1/2-13	35068	1/2-20	35069	100
9/16-12	35070	9/16-18	35071	50
5/8-11	35072	5/8-18	35073	50
3/4-10	35074	3/4-16	35075	25





NUTS

STEEL ZINC PLATED

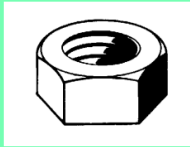
HEAVY HEX NUTS



HEAVY AND 2H NUTS ARE WIDER ACROSS THE FLATS (WRENCH SIZE) THAN FINISHED NUTS. THEY ARE THICKER TOO.

SIZE	PART NUMBER	PACKAGE
1/4-20	32008	100
5/16-18	32010	100
3/8-16	32012	100
7/16-14	32014	100
1/2-13	32016	100
5/8-11	32020	50
3/4-10	32022	50
7/8-9	32024	25
1-8	32026	25
1 1/4-7	32030	1

HEAVY HEX NUTS GRADE 2H



2H NUTS ARE HEAT TREATED

SIZE	PART NUMBER	PACKAGE
5/8-11	33020	50
3/4-10	33022	50
7/8-9	33024	25
1-8	33026	25
1 1/2-8	33028	1

CAP NUTS



SIZE	PART NUMBER	PACKAGE
6-32	32100	100
8-32	32101	100
10-24	32102	100
10-32	32103	100
1/4-20	32104	100
5/16-18	32105	100
3/8-16	32106	100
1/2-13	32107	100
5/8-11	32108	50

FORGED WING NUTS



SIZE	PART NUMBER	PACKAGE
6-32	32140	100
8-32	32142	100
10-24	32144	100
10-32	32146	100
1/4-20	32148	100
1/4-28	32150	100
5/16-18	32152	100
3/8-16	32154	100
7/16-14	32156	50
1/2-13	32158	50
5/8-11	32160	25
3/4-10	32162	25



NUTS

STEEL ZINC PLATED CON'T

NYLON LOCK NUTS



DIAMETER	T.P.I.	USS PART NUMBER	T.P.I.	SAE PART NUMBER	PACKAGE
4	40	35001			100
5	40	35002			100
6	32	35003			100
8	32	35004			100
10	24	35005	32	35006	100
12	24	35007			100
1/4	20	35008	28	35009	100
5/16	18	35010	24	35011	100
3/8	16	35012	24	35013	100
7/16	14	35014	20	35015	100
1/2	13	35016	20	35017	100
9/16	12	35018	18	35019	50
5/8	11	35020	18	35021	50
3/4	10	35022	16	35023	50
7/8	9	35024	14	35025	25
1	8	35026	14	35027	25

BRASS MACHINE SCREW NUTS



SIZE	PART NUMBER	PACKAGE
4-40	30299	100
5-40	30300	100
6-32	30301	100
8-32	30302	100
10-24	30304	100
10-32	30303	100
12-24	30305	100

BRASS FINISHED HEX NUTS



SIZE	PART NUMBER	PACKAGE
1/4-20	31600	100
5/16-18	31601	100
3/8-16	31602	100
7/16-14	31603	100
1/2-13	31604	100
5/8-11	31605	50
3/4-10	31606	50

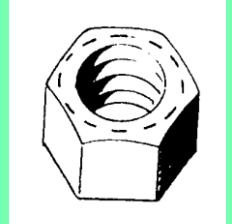


NUTS

L-9 FINISHED HEX NUTS

ALLOY HEAT TREATED STEEL
DICHROMATE PLATED AND WAXED

DIAMETER	COARSE THREADS	NUMBER	FINE THREADS	NUMBER	PACK
1/4	20	31400	28	31401	100
5/16	18	31402	24	31403	50
3/8	16	31404	24	31405	50
7/16	14	31406	20	31407	25
1/2	13	31408	20	31409	25
9/16	12	31410	18	31411	25
5/8	11	31412	18	31413	25
3/4	10	31414	16	31415	20
7/8	9	31416	14	31417	15
1	8	31418	14	31419	10
1 1/8	7	31420	12	31421	10
1 1/4	7	31422	12	31423	10
1 1/2	6	31424	12	31425	6



L-9 LOCK NUTS

DIAMETER	COARSE THREADS	NUMBER	FINE THREADS	NUMBER	PACK
1/4	20	31500	28	31501	100
5/16	18	31502	24	31503	50
3/8	16	31504	24	31505	50
7/16	14	31506	20	31507	25
1/2	13	31508	20	31509	25
9/16	12	31510	18	31511	25
5/8	11	31512	18	31513	25
3/4	10	31514	16	31515	20
7/8	9	31516	14	31517	15
1	8	31518	14	31519	10
1 1/8	7	31520	12	31521	10
1 1/4	7	31522	12	31523	10
1 1/2	6	31524	12	31525	6



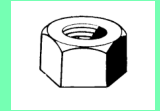


NUTS

METRIC

DIN STANDARD METRIC NUTS STRENGTH CLASS 8

DIAMETER & PITCH	COARSE PART NUMBER	PACK	DIAMETER & PITCH	FINE PART NUMBER	PACK
4 X .7	31300	50	4 X .50	31320	50
5 X .8	31301	50	5 X .50	31321	50
6 X 1.00	31302	50	6 X .75	31322	50
7 X 1.00	31303	50			
8 X 1.25	31304	50	8 X 1.00	31323	50
10 X 1.50	31305	25	10 X 1.00	31324	25
12 X 1.75	31306	25	10 X 1.25	31325	25
14 X 2.00	31307	25	12 X 1.25	31326	25
16 X 2.00	31309	10	12 X 1.5	31327	25
18 X 2.50	31310	10	16 X 1.5	31328	10
20 X 2.50	31311	10	18 X 1.50	31329	10
22 X 2.50	31312	1	20 X 1.50	31330	10
24 X 3.00	31313	1	22 X 1.50	31331	10
27 X 3.00	31314	1	24 X 2.00	31332	10
30 X 3.50	31315	1			
33 X 3.50	31316	1			



JIS NUTS STRENGTH CLASS 8

DIAMETER	WRENCH SIZE	PART NUMBER	PACK
8 X 1.25	12	31342	25 ALL
10 X 1.25	14	31344	
10 X 1.5	14	31346	
14 X 1.25	17	31348	25

STRENGTH CLASS 10 DIN STANDARD

DIAMETER & PITCH	PART NUMBER	PACK
6 X 1.00	31371	50
8 X 1.25	31372	50
10 X 1.5	31373	50
12 X 1.75	31374	50
14 X 2.00	31375	25
16 X 2.00	31376	10
20 X 2.50	31377	10
24 X 3.00	31378	10

STRENGTH CLASS 8 NUTS ARE SUITABLE FOR CLASS 8.8 SCREWS AND BELOW. CLASS 10 NUTS ARE FOR CLASS 10.9 SCREWS. CLASS 8 AND 8.8 ARE SIMILAR TO SAE GRADE 5. CLASS 10 AND 10.9 ARE SIMILAR TO SAE GRADE 8



NUTS

METRIC CON'T

METRIC NYLON LOCK NUTS

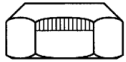
SIZE	PART NUMBER	STAINLESS STEEL PART NUMBER	PACKAGE
M4 X .7	31350	31350SS	50
M5 X .8	31351	31351SS	50
M6 X 1.00	31352	31352SS	50
M7 X 1.00	31353	31353SS	50
M8 X 1.25	31354	31354SS	50
M10 X 1.50	31355	31355SS	25
M12 X 1.75	31356	31356SS	25
M14 X 2.00	31357	31357SS	25
M16 X 2.00	31358	31358SS	10
M18 X 2.50	31359	31359SS	10
M20 X 2.50	31360	31360SS	10
M22 X 2.50	31361	31361SS	1
M24 X 3.00	31362	31362SS	1
M27 X 3.00	31363	31363SS	1
M30 X 3.50	31364	31364SS	1
M33 X 3.50	31365	31365SS	1



METRIC ALL METAL LOCK NUTS

DIN980U CLASS 10 COARSE THREAD

SIZE	PART NUMBER	PACKAGE
M6 X 1.00	31380	50
M8 X 1.25	31381	50
M10 X 1.50	31382	50
M12 X 1.75	31383	50
M14 X 2.00	31384	10
M16 X 2.00	31385	10
M18 X 2.50	31386	10
M20 X 2.50	31387	10



FINE THREAD

SIZE	PART NUMBER	PACKAGE
M10 X 1.25	31390	25
M12 X 1.50	31391	25
M14 X 1.50	31392	25
M16 X 1.50	31393	25
M24 X 2.0	31394	25

STAINLESS STEEL METRIC HEX NUTS

SIZE	PART NUMBER	PACKAGE
M5 X .8	31280	50
M6 X 1.00	31281	50
M8 X 1.25	31282	50
M10 X 1.50	31283	25
M12 X 1.75	31284	25
M14 X 2.00	31285	25
M16 X 2.00	31286	10
M20 X 2.50	31287	10
M24 X 3.00	31288	10





NYLON TIES

NYLON TIES

NATURAL COLORED NYLON WIRE TIES		
PART NUMBER	SIZE IN INCHES B DIM. X G DIM., TENSILE	PACK
524216	3/16 X 6"	100
52421	1/8 X 4, 18 LB.	100
52422	3/16 X 8, 50 LB.	
52449	3/16 X 11, 50 LB.	
52424	3/16 X 14, 50 LB.	100
52423	3/16 X 7, 50 LB. W/ HOLE	
52450	5/16 X 14.5, 175 LB. H. D.	
BLACK UV AND HEAT RESISTANT		
52443	1/8 X 4, 18 LB.	100
52444	1/8 X 6, 18 LB.	
52448	3/16 X 8, 50 LB.	
52452	3/16 X 11, 50 LB.	100
52453	3/16 X 14, 50 LB.	
52454	5/16 X 14, 175 LB.	
52456	3/16 X 8 50 LB. W/ HOLE	100
52457	3/16 X 8, 50 LB HOSE CLAMP	
52459	4"CLAMP TIE, MARINE	
52458	18" HEAVY DUTY	100
52462	24" HEAVY DUTY	100
52464	36" HEAVY DUTY	100
W21070	8-7/8 H.D. WHITE NYLON TIE	50

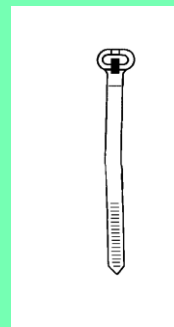
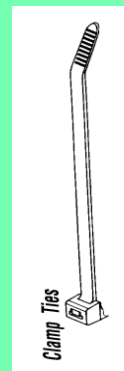
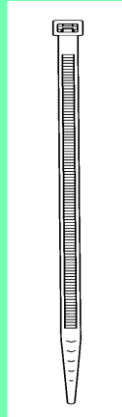
NUMBERS 52423 & 52456 HAVE A SCREW MOUNTING HOLE
FOR ROUTING CABLES OR HOSES, 52457 CAN BE USED AS
A HOSE CLAMP FOR LOW PRESSURE APPLICATIONS

COLORED NYLON CABLE TIES

COLOR	4" PART NUMBER	8" PART NUMBER	PACK
BROWN	W21501	W21521	100
RED	W21502	W21522	100
ORANGE	W21503	W21523	100
YELLOW	W21504	W21524	100
GREEN	W21505	W21525	100
BLUE	W21506	W21526	100
PURPLE	W21507	W21527	100
GRAY	W21508	W21528	100
NEON PINK	W21512	W21532	100
NEON ORANGE	W21513	W21533	100
NEON YELLOW	W21514	W21534	100
NEON GREEN	W21515	W21535	100

BLACK TY-RAP CABLE TIES

SIZE	TY-RAP#	PART NUMBER	PACK
3.62	TY23MX	W21641	1000
7.31	TY25MX	W21644	1000
11.10	TY26MX	W21794	100
11.40	TY253MX	W21645	1000
14.20	TY28MX	W21746	100
14.20	TY28MX	W21646	1000
13.40	TY27MX-HD	W21691	500
30"	TY29MX-HD	W21749	50





BUNA-N O-RINGS

O-RINGS - BUNA-N

70 DUROMETER

1/16 DIAMETER							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
1/32	5/32	73001	20	1 1/4	1 3/8	73026	10
3/64	11/64	73002	20	1 5/16	1 7/16	73027	10
1/16	3/16	73003	20	1 3/8	1 1/2	73028	10
5/64	13/64	73004	20	1 1/2	1 5/8	73029	10
3/32	7/32	73005	20	1 5/8	1 3/4	73030	10
1/8	1/4	73006	20	1 3/4	1 7/8	73031	10
5/32	9/32	73007	20	1 7/8	2	73032	10
3/16	5/16	73008	20	2	2 1/8	73033	10
7/32	11/32	73009	20	2 1/8	2 1/4	73034	10
1/4	3/8	73010	20	2 1/4	2 3/8	73035	10
5/16	7/16	73011	20	2 3/8	2 1/2	73036	10
3/8	1/2	73012	20	2 1/2	2 5/8	73037	10
7/16	9/16	73013	20	2 5/8	2 3/4	73038	10
1/2	5/8	73014	20	2 3/4	2 7/8	73039	10
9/16	11/16	73015	20	2 7/8	3	73040	5
5/8	3/4	73016	20	3	3 1/8	73041	5
11/16	13/16	73017	20	3 1/4	3 3/8	73042	5
3/4	7/8	73018	20	3 1/2	3 5/8	73043	5
13/16	15/16	73019	20	3 3/4	3 7/8	73044	5
7/8	1	73020	20	4	4 1/8	73045	5
15/16	1 1/16	73021	20	4 1/4	4 3/8	73046	5
1	1 1/8	73022	10	4 1/2	4 5/8	73047	5
1 1/16	1 3/16	73023	10	4 3/4	4 7/8	73048	5
1 1/8	1 1/4	73024	10	5	5 1/8	73049	5
1 3/16	1 5/16	73025	10	5 1/4	5 3/8	73050	5



3/32 DIAMETER							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
1/16	1/4	73102	20	13/16	1	73117	20
3/32	9/32	73103	20	7/8	1 1/16	73118	20
1/8	5/16	73104	20	15/16	1 1/8	73119	20
5/32	11/32	73105	20	1	1 3/16	73120	10
3/16	3/8	73106	20	1 1/16	1 1/4	73121	10
7/32	13/32	73107	20	11/8	1 5/16	73122	10
1/4	7/16	73108	20	1 3/16	1 3/8	73123	10
5/16	1/2	73109	20	1 1/4	1 7/16	73124	10
3/8	9/16	73110	20	1 5/16	1 1/2	73125	10
7/16	5/8	73111	20	1 3/8	1 9/16	73126	10
1/2	11/16	73112	20	1 7/16	1 5/8	73127	10
9/16	3/4	73113	20	1 1/2	1 11/16	73128	10
5/8	13/16	73114	20	1 9/16	1 3/4	73129	10
11/16	7/8	73115	20	1 5/8	1 13/16	73130	10
3/4	15/16	73116	20	1 11/16	1 7/8	73131	10



BUNA-N O-RINGS

70 DUROMETER CON'T



3/32 DIAMETER CON'T							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
1 3/4	1 15/16	73132	10	4 1/4	4 7/16	73156	5
1 3/16	2	73133	10	4 1/2	4 11/16	73157	5
1 7/8	2 1/16	73134	10	4 3/4	4 15/16	73158	5
1 15/16	2 1/8	73135	10	5	5 3/16	73159	5
2	2 3/16	73136	10	5 1/4	5 7/16	73160	5
2 1/16	2 1/4	73137	10	5 1/2	5 11/16	73161	5
2 1/8	2 5/16	73138	10	5 3/4	5 15/16	73162	5
2 3/16	2 3/8	73139	10	6	6 3/16	73163	5
2 1/4	2 7/16	73140	10	6 1/4	6 7/16	73164	5
2 5/16	2 1/2	73141	10	6 1/2	6 11/16	73165	5
2 3/8	2 9/16	73142	10	6 3/4	6 15/16	73166	5
2 7/16	2 5/8	73143	10	7	7 3/16	73167	5
2 1/2	2 11/16	73144	5	7 1/4	7 7/16	73168	5
2 9/16	2 3/4	73145	5	7 1/2	7 11/16	73169	5
2 5/8	2 13/16	73146	5	7 3/4	7 15/16	73170	5
2 11/16	2 7/8	73147	5	8	8 3/16	73171	5
2 3/4	2 15/16	73148	5	8 1/4	8 7/16	73172	5
2 13/16	3	73149	5	8 1/2	8 11/16	73173	5
2 7/8	3 1/16	73150	5	8 3/4	8 15/16	73174	5
3	3 3/16	73151	5	9	9 3/16	73175	5
3 1/4	3 7/16	73152	5	9 1/4	9 7/16	73176	5
3 1/2	3 11/16	73153	5	9 1/2	9 11/16	73177	5
3 3/4	3 15/16	73154	5	9 3/4	9 15/16	73178	5
4	4 3/16	73155	5				

1/8 DIAMETER							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
3/16	7/16	73201	20	1 5/16	1 9/16	73219	10
1/4	1/2	73202	20	1 3/8	1 5/8	73220	10
5/16	9/16	73203	20	1 7/16	1 11/16	73221	10
3/8	5/8	73204	20	1 1/2	1 3/4	73222	10
7/16	11/16	73205	20	1 5/8	1 7/8	73223	10
1/2	3/4	73206	20	1 3/4	2	73224	10
9/16	13/16	73207	20	1 7/8	2 1/8	73225	10
5/8	7/8	73208	20	2	2 1/4	73226	10
11/16	15/16	73209	20	2 1/8	2 3/8	73227	10
3/4	1	73210	20	2 1/4	2 1/2	73228	10
13/16	1 1/16	73211	20	2 3/8	2 5/8	73229	10
7/8	1 1/8	73212	20	2 1/2	2 3/4	73230	10
15/16	1 3/16	73213	20	2 5/8	2 7/8	73231	5
1	1 1/4	73214	20	2 3/4	3	73232	5
1 1/16	1 5/16	73215	10	2 7/8	3 1/8	73233	5
1 1/8	1 3/8	73216	10	3	3 1/4	73234	5
1 3/16	1 7/16	73217	10	3 1/8	3 3/8	73235	5
1 1/4	1 1/2	73218	10	3 1/4	3 1/2	73236	5



BUNA-N O-RINGS

70 DUROMETER CON'T

1/8 DIAMETER CON'T							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
3 3/8	3 5/8	73237	5	5	5 1/4	73250	5
3 1/2	3 3/4	73238	5	5 1/4	5 1/2	73252	5
3 5/8	3 7/8	73239	5	5 3/8	5 5/8	73253	5
3 3/4	4	73240	5	5 1/2	5 3/4	73254	5
3 7/8	4 1/8	73241	5	5 3/4	6	73256	5
4	4 1/4	73242	5	6 3/4	7	73261	5
4 1/8	4 3/8	73243	5	7 1/4	7 1/2	73263	5
4 1/2	4 3/4	73246	5	7 1/2	7 3/4	73264	5
4 5/8	4 7/8	73247	5	10	10 1/4	73274	5
4 3/4	5	73248	5				



3/16 DIAMETER							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
7/16	13/16	73309	10	2-1/2	2-7/8	73333	5
1/2	7/8	73310	10	2-5/8	3	73334	5
9/16	15/16	73311	10	2-3/4	3-1/8	73335	5
5/8	1	73312	10	2-7/8	3-1/4	73336	5
11/16	1 1/16	73313	10	3	3-3/8	73337	5
3/4	1 1/8	73314	10	3-1/8	3-1/2	73338	5
13/16	1 3/16	73315	10	3-1/4	3-5/8	73339	5
7/8	1 1/8	73316	20	3-3/8	3-3/4	73340	5
15/16	1 5/16	73317	20	3-1/2	3-7/8	73341	5
1	1 3/8	73318	10	3-5/8	4	73342	5
1 1/16	1 7/16	73319	10	3-3/4	4-1/8	73343	5
1 1/8	1 1/2	73320	10	3-7/8	4-1/4	73344	5
1-3/16	1-9/16	73321	10	4	4-3/8	73345	5
1-1/4	1-5/8	73322	10	4-1/8	4-1/2	73346	5
1-5/16	1-11/16	73323	10	4-1/4	4-5/8	73347	5
1-3/8	1-3/4	73324	10	4-3/8	4-3/4	73348	5
1-1/2	1-7/8	73325	10	4-1/2	4-7/8	73349	5
1-5/8	2	73326	10	4-5/8	5	73350	5
1-3/4	2-1/8	73327	10	4-3/4	5-1/8	73351	5
1-7/8	2-1/4	73328	5	4-7/8	5-1/4	73352	5
2	2-3/8	73329	5	5	5-3/8	73353	5
2-1/8	2-1/2	73330	5	5-1/8	5-1/2	73354	5
2-1/4	2-5/8	73331	5	5-1/4	5-5/8	73355	5
2-3/8	2-3/4	73332	5	5-3/8	5-3/4	73356	5



BUNA-N O-RINGS

70 DUROMETER CON'T



3/16 DIAMETER CON'T							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
5-1/2	5-7/8	73357	5	8	8-3/8	73369	5
5-5/8	6	73358	5	8-1/4	8-5/8	73370	5
5-3/4	6-1/8	73359	5	8-1/2	8-7/8	73371	5
5-7/8	6-1/4	73360	5	8-3/4	9-1/8	73372	5
6	6-3/8	73361	5	9	9-3/8	73373	5
6-1/4	6-5/8	73362	5	9-1/4	9-5/8	73374	5
6-1/2	6-7/8	73363	5	9-1/2	9-7/8	73375	5
6-3/4	7-1/8	73364	5	9-3/4	10-1/8	73376	5
7	7-3/8	73365	5	10	10-3/8	73377	5
7-1/4	7-5/8	73366	5				
7-1/2	7-7/8	73367	5				
7-3/4	8-1/8	73368	5				

1/4 DIAMETER							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
13	13-3/4	73382	10	8	8-1/2	73445	10
6	6-1/2	73437	10	8-1/2	9	73446	10
6-3/4	7-1/4	73440	10	10	10-1/2	73449	10
7	7-1/2	73441	10	13-1/2	14	73456	10
7-1/4	7-3/4	73442	10				
7-3/4	8-1/4	73444	10				

VITON O-RINGS

I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
5/16	7/16	735011	10	15/16	1-3/16	735213	10
7/16	9/16	735013	10	1-1/16	1-5/16	735215	10
5/8	3/4	735016	10	1-1/8	1-3/8	735216	10
11/16	13/16	735017	10	1-3/16	1-7/16	735217	10
.081	.070	735019	10	1-5/16	1-9/16	735219	10
7/8	1	735020	10	1-3/8	1-5/8	735220	10
15/16	1-1/16	735021	10	1-7/16	1-11/16	735221	10
1	1-1/8	735022	10	1-3/4	2	735224	10
5/8	13/16	735114	10	2-1/8	2-3/8	735227	10
1-3/16	1-3/8	735123	10	2-1/4	2-1/2	735228	10
1-1/2	1-11/16	735128	10	3/1/4	3-1/2	735236	10
1-7/8	2-1/16	735134	10	3-3/8	3-5/8	735237	10
9/16	13/16	735207	10	15/16	1-5/16	735317	10
13/16	1-11/16	735211	10	1-1/2	1-7/8	735325	10
7/8	1-1/8	735212	10				



BUNA-N O-RINGS

METRIC 70 DUROMETER



3/32 DIAMETER							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
1 3/4	1 15/16	73132	10	4 1/4	4 7/16	73156	5
1 3/16	2	73133	10	4 1/2	4 11/16	73157	5
1 7/8	2 1/16	73134	10	4 3/4	4 15/16	73158	5
1 15/16	2 1/8	73135	10	5	5 3/16	73159	5
2	2 3/16	73136	10	5 1/4	5 7/16	73160	5
2 1/16	2 1/4	73137	10	5 1/2	5 11/16	73161	5
2 1/8	2 5/16	73138	10	5 3/4	5 15/16	73162	5
2 3/16	2 3/8	73139	10	6	6 3/16	73163	5
2 1/4	2 7/16	73140	10	6 1/4	6 7/16	73164	5
2 5/16	2 1/2	73141	10	6 1/2	6 11/16	73165	5
2 3/8	2 9/16	73142	10	6 3/4	6 15/16	73166	5
2 7/16	2 5/8	73143	10	7	7 3/16	73167	5
2 1/2	2 11/16	73144	5	7 1/4	7 7/16	73168	5
2 9/16	2 3/4	73145	5	7 1/2	7 11/16	73169	5
2 5/8	2 13/16	73146	5	7 3/4	7 15/16	73170	5
2 11/16	2 7/8	73147	5	8	8 3/16	73171	5
2 3/4	2 15/16	73148	5	8 1/4	8 7/16	73172	5
2 13/16	3	73149	5	8 1/2	8 11/16	73173	5
2 7/8	3 1/16	73150	5	8 3/4	8 15/16	73174	5
3	3 3/16	73151	5	9	9 3/16	73175	5
3 1/4	3 7/16	73152	5	9 1/4	9 7/16	73176	5
3 1/2	3 11/16	73153	5	9 1/2	9 11/16	73177	5
3 3/4	3 15/16	73154	5	9 3/4	9 15/16	73178	5
4	4 3/16	73155	5				

1/8 DIAMETER							
I.D.	O.D.	PART NUMBER	PACK	I.D.	O.D.	PART NUMBER	PACK
3/16	7/16	73201	20	1 5/16	1 9/16	73219	10
1/4	1/2	73202	20	1 3/8	1 5/8	73220	10
5/16	9/16	73203	20	1 7/16	1 11/16	73221	10
3/8	5/8	73204	20	1 1/2	1 3/4	73222	10
7/16	11/16	73205	20	1 5/8	1 7/8	73223	10
1/2	3/4	73206	20	1 3/4	2	73224	10
9/16	13/16	73207	20	1 7/8	2 1/8	73225	10
5/8	7/8	73208	20	2	2 1/4	73226	10
11/16	15/16	73209	20	2 1/8	2 3/8	73227	10
3/4	1	73210	20	2 1/4	2 1/2	73228	10
13/16	1 1/16	73211	20	2 3/8	2 5/8	73229	10
7/8	1 1/8	73212	20	2 1/2	2 3/4	73230	10
15/16	1 3/16	73213	20	2 5/8	2 7/8	73231	5
1	1 1/4	73214	20	2 3/4	3	73232	5
1 1/16	1 5/16	73215	10	2 7/8	3 1/8	73233	5
1 1/8	1 3/8	73216	10	3	3 1/4	73234	5
1 3/16	1 7/16	73217	10	3 1/8	3 3/8	73235	5
1 1/4	1 1/2	73218	10	3 1/4	3 1/2	73236	5



BUNA-N O-RINGS

METRIC 70 DUROMETER CON'T



DESCRIPTION	PART NUMBER	PACKAGE
M13 X 2.0	7401300200	25
M14 X 2.0	7401400200	25
M16 X 2.0	7401600200	25
M18 X 2.0	7401800200	25
M19 X 2.0	7401900200	25
M20 X 2.0	7402000200	25
M21 X 2.0	7402100200	25
M22 X 2.0	7402200200	25
M23 X 2.0	7402300200	25
M24 X 2.0	7402400200	25
M25 X 2.0	7402500200	25
M26 X 2.0	7402600200	25
M27 X 2.0	7402700200	25
M28 X 2.0	7402800200	25
M29 X 2.0	7402900200	25
M30 X 2.0	7403000200	25
M31 X 2.0	7403100200	25
M32 X 2.0	7403200200	25
M4.3 X 2.4	7400430240	25
M9.3 X 2.4	7400930240	25
M10.3 X 2.4	7401030240	25
M11.3 X 2.4	7401130240	25
M12.3 X 2.4	7401230240	25
M13.3 X 2.4	7401330240	25
M14.3 X 2.4	7401430240	25
M15.3 X 2.4	7401530240	25
M16.3 X 2.4	7401630240	25
M18.3 X 2.4	7401830240	25
M19.3 X 2.4	7401930240	25
M20 X 2.4	7402000240	25
M15 X 2.5	7401500250	25
M16 X 2.5	7401600250	25
M17 X 2.5	7401700250	25
M20 X 2.5	7402000250	25
M25 X 2.5	7402500250	25
M28 X 2.5	7402800250	25
M24 X 3.0	7402400300	25
M25 X 3.0	7402500300	25
M27 X 3.0	7402700300	25
M30 X 3.0	7403000300	25
M32 X 3.0	7403200300	25
M33 X 3.0	7403300300	25
M35 X 3.0	7403500300	25
M40 X 3.0	7404000300	25
M42 X 3.0	7404200300	25
M43 X 3.0	7404300300	25
M44 X 3.0	7404400300	25
M45 X 3.0	7404500300	25
M24.2 X 3.0	7402420300	25

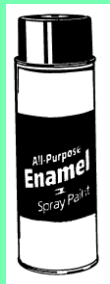


PAINT

PAINT

HIGH SOLID AEROSOL PAINTS

INDUSTRIAL COATING
CONTAINER SIZE IS 20 OZ

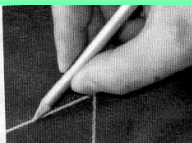


COLOR	PART NUMBER
GLOSS BLACK	70130
GLOSS WHITE	70131
MACHINERY GREY	70132
MACHINERY LITE GRAY	70159
BLUE	70133
FLAT BLACK	70136
FLAT WHITE	70137
SAFETY ORANGE	70139
SAFETY YELLOW	70140
GREEN	70141
RED	70142
YELLOW	70152
UTILITY YELLOW MARKING	70143
HI-TEMP BLACK	70149
HI-TEMP WHITE	70150
HI-TEMP ALUMINUM	70151

RESISTANT TO HEAT UP TO 300°F (149°C)

PRIMER

COLOR	PART NUMBER
LIGHT GRAY	70134
RED OXIDE	70160



MARKERS

COLOR	PART NUMBER
SILVER PENCIL	70165

PAINT MARKER



COLOR	PART NUMBER
YELLOW	70161
WHITE	70162
BLACK	70163
RED	70164
BLUE	70166
SILVER	70167



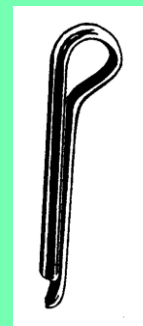
PINS, BUSHINGS & STRAPS

PINS, BUSHING & STRAPS

COTTER PINS

LENGTH	DIAMETER				
	1/16	3/32	7/64	1/8	5/32
1/2	59000	59009	590171	59018	
3/4	59001	59010	590172	59019	59028
1	59002	59011	590173	59020	59029
1-1/4	59003	59012	590174	59021	59030
1-1/2	59004	59013	590175	59022	59031
1-3/4	59005	59014	590176	59023	59032
2	59006	59015	590177	59024	59033
2-1/2	59007	59016	590178	59025	59034
3	59008	59017	590179	59026	59035

PACKAGE FOR ALL IS 100 PIECES



LENGTH	DIAMETER					
	3/16	7/32	1/4	5/16	3/8	1/2
1	59036		59045	59054		
1-1/4	590361					
1-1/2	59037	590371	59046	59055	59064	
2	59038		59047	59056	59065	59074
2-1/2	59039		59048	59057	59066	59075
3	59040		59049	59058	59067	59076
3-1/2	59041		59050	59059	59068	59077
4	59042		59051	59060	59069	59078
4-1/2			59052			
5			59053	59062	59071	59080
PACK QUANTITY	50	50	50	25	25	25

#60046 -50 PC IN A PLASTIC BOX

#60047-100 PIECES IN PLASTIC BOX

COTTER PINS ARE STEEL, ZINC PLATED.

PUT SS BEHIND THE NUMBER WHEN ORDERING STAINLESS STEEL



PINS, BUSHINGS & STRAPS

DOWEL PINS

HEAT TREATED ALLOY STEEL STANDARD PRECISION GROUND



LENGTH	3/32	1/8	3/16	1/4	5/16
3/8		10800			
1/2	10799	10801	10810	10820	10831
5/8		10802	10811	10821	10832
3/4	107990	10803	10812	10822	10833
7/8		10804	10813	10823	10834
1	107991	10805	10814	10824	10835
1-1/4		10806	10815	10825	10836
1-1/2		10807	10816	10826	10837
1-3/4			10817	10827	10838
2		10808	10818	10828	10839
2-1/4				10829	10840
2-1/2					10841
3					10842

LENGTH	3/8	7/16	1/2	5/8	3/4
1/2	10843				
5/8	10844				
3/4	10845		10861		
7/8	10846				
1	10847	10855	10862	10872	
1-1/4	10848	10856	10863	10873	
1-1/2	10849	10857	10864	10874	
1-3/4	10850		10865	10875	
2	10851	10858	10866	10876	10892
2-1/4	10852		10867		
2-1/2	10853	10859	10868	10877	
3	10854	10860	10869	10878	
3-1/2			10870	10879	
4			10871	10880	
5				10881	

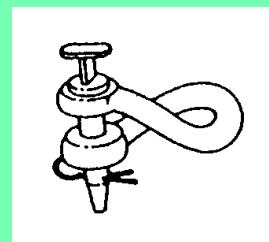
DIAMETER	PACKAGE QUANTITIES			
	100	40	20	10
3/32	ALL			
1/8	ALL			
3/16	ALL			
1/4	ALL			
5/16	ALL			
3/8	1/2 - 1-1/2	1-3/4 - 3		
7/16		ALL		
1/2		3/4 - 2	2-1/4 - 4	
5/8 & 3/4				ALL



PINS, BUSHINGS & STRAPS

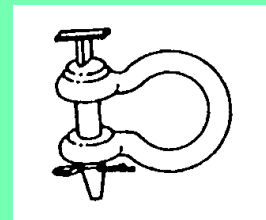
TWISTED CLEVIS

BODY SIZE	PIN SIZE	PART NUMBER	PACKAGE
3/4	5/8	60240	1
7/8 SHORT	3/4	60241	1
7/8 LONG	3/4	60242	1
15/16	7/8	60243	1
1	1	60244	1



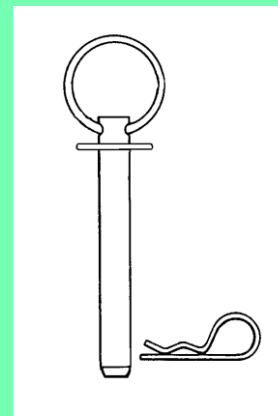
STRAIGHT CLEVIS

BODY SIZE	PIN SIZE	PART NUMBER	PACKAGE
3/4	5/8	60250	1
7/8 SHORT	3/4	60251	1
7/8 LONG	3/4	60252	1
15/16	7/8	60253	1
1	1	60254	1



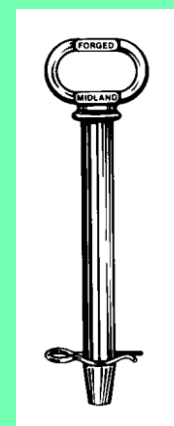
PIN LOCK HITCH PINS

DIAMETER	LENGTH	PART NUMBER	PACKAGE
3/8	3	60320	1
1/2	3-1/2	60321	1
5/8	4-1/2	60322	1
3/4	4-1/2	60323	1
7/8	4-1/2	60324	1
1	4-1/2	60325	1
5/8	6	60326	1
3/4	6	60327	1
7/8	6	60328	1
1	6	60329	1



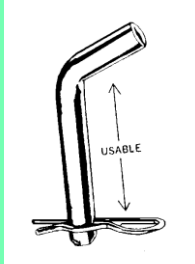
FORGED HITCH PINS

DIAMETER	LENGTH	PART NUMBER	PACKAGE
7/16	3-1/2	60382	1
1/2	3-1/2	60383	1
5/8	3-3/4	60384	1
3/4	4	60385	1
7/8	4-1/4	60386	1
1	4-1/2	60387	1
5/8	6	60388	1
3/4	6-1/4	60389	1
7/8	6-1/2	60390	1
1	6-3/4	60391	1
1-1/8	7	60392	1
1-1/4	7	60393	1
1-3/8	7	60394	1



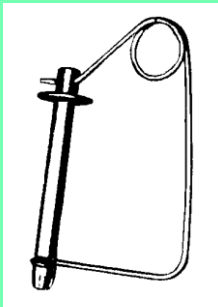


PINS, BUSHINGS & STRAPS



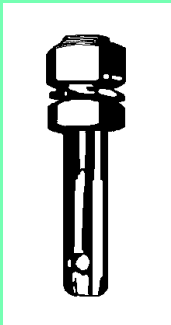
BENT PULL PINS

DIAMETER	USABLE LENGTH	PART NUMBER	PACKAGE
1/2	2	60340	1
1/2	3	60341	1
5/8	3	60342	1
3/4	3-1/2	60343	1



SNAP LOCK PINS

DIAMETER	USABLE LENGTH	PART NUMBER	PACKAGE
5/8	4	60350	1
3/4	4	60351	1
7/8	5-1/2	60352	1
1	5-1/2	60353	1
3/4	6-1/4	60354	1



LIFT ARM PIN

DIAMETER	THREAD	LENGTH	PART NUMBER	PACKAGE
7/8	7/8-14	5-1/4	60360	1
1-1/8	7/8-14	5-1/4	60361	1
1-1/8	1-1/8-12	6-1/4	60362	1
1-7/16	1-1/8-12	6-1/2	60365	1



LIFT ARM BUSHING

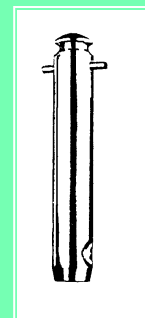
OUTER DIAMETER	INNER DIAMETER	LENGTH	PART NUMBER	PACKAGE
1-1/8	7/8	1-3/4	60363	1
1-1/8	1-7/16	1-3/4	60364	1



PINS, BUSHINGS & STRAPS

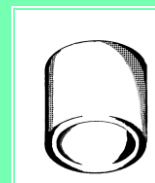
TOP LINK PINS

DIAMETER	USEABLE LENGTH	OVER ALL LENGTH	NUMBER
3/4	3	4-3/4	60366
3/4	3-3/4	5-1/2	60367
1	4-1/4	6	60368



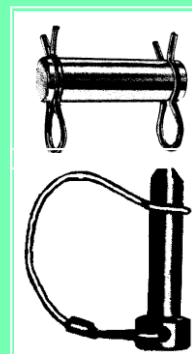
TOP LINK BUSHINGS

OUTSIDE DIAMETER	INSIDE DIAMETER	LENGTH	NUMBER
1	3/4	1-15/16	60370
1-1/4	1	2	60371



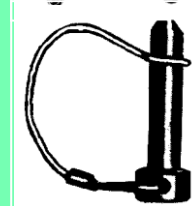
CLEVIS PINS

DIAMETER	USEABLE LENGTH	OVER ALL LENGTH	NUMBER
1	2-1/8	2 7/8	60380
1	2-1/4	3 1/2	60381



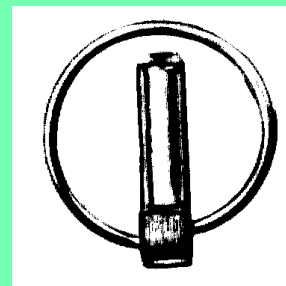
POWER TAKE-OFF PINS

DIAMETER	LENGTH	NUMBER
1/4	1-3/4	60590
5/16	2-5/8	60591
1/4 SQUARE	2-1/4	605901
3/8 SQUARE	2-1/2	605912



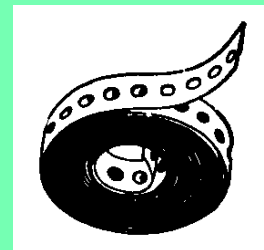
LYNCH PINS

SIZE	PART NUMBER	WITH CHAIN NUMBER	PACKAGE
3/16 X 1-1/4	60596		1
1/4 X 1-3/4	60597		1
5/16 X 1-3/4	60598		1
7/16 X 1-3/8	60592	60594	1
7/16 X 1-3/4	60593	60595	1



HANGER STRAPS

GAUGE	SIZE	PART NUMBER	PKG
18	3/4 X 10 FT	60530	1
10	3/4 X 10 FT	60529	1





PINS, BUSHINGS & STRAPS

HAIR PINS

HITCH PIN CLIPS

PART NUMBER	DIAMETER	LENGTH	PACK
60101	5/32	3	25
60102	3/32	1-5/8	25
60103	11/64	3	25
60104	3/16	3-1/4	25
60105	3/32	2-15/16	25
60106	3/16	3-3/4	25
60107	5/32	3-15/16	25
60108	5/32	2-15/16	25
60109	1/8	2-9/16	25
60110	3/32	1-3/16	50
60111	3/32	2-1/2	25
60112	1/8	1-9/16	25
60113	1/8	1-3/4	25
60114	3/32	1-9/16	25
60115	1/16	1-9/16	50
60116	1/4	4-3/8	10
60117	5/16	3-15/16	10
60118	3/64	9/16	50
60119	1/16	1-5/16	50
60120	3/64	1	50
60121	3/64	1-9/16	50

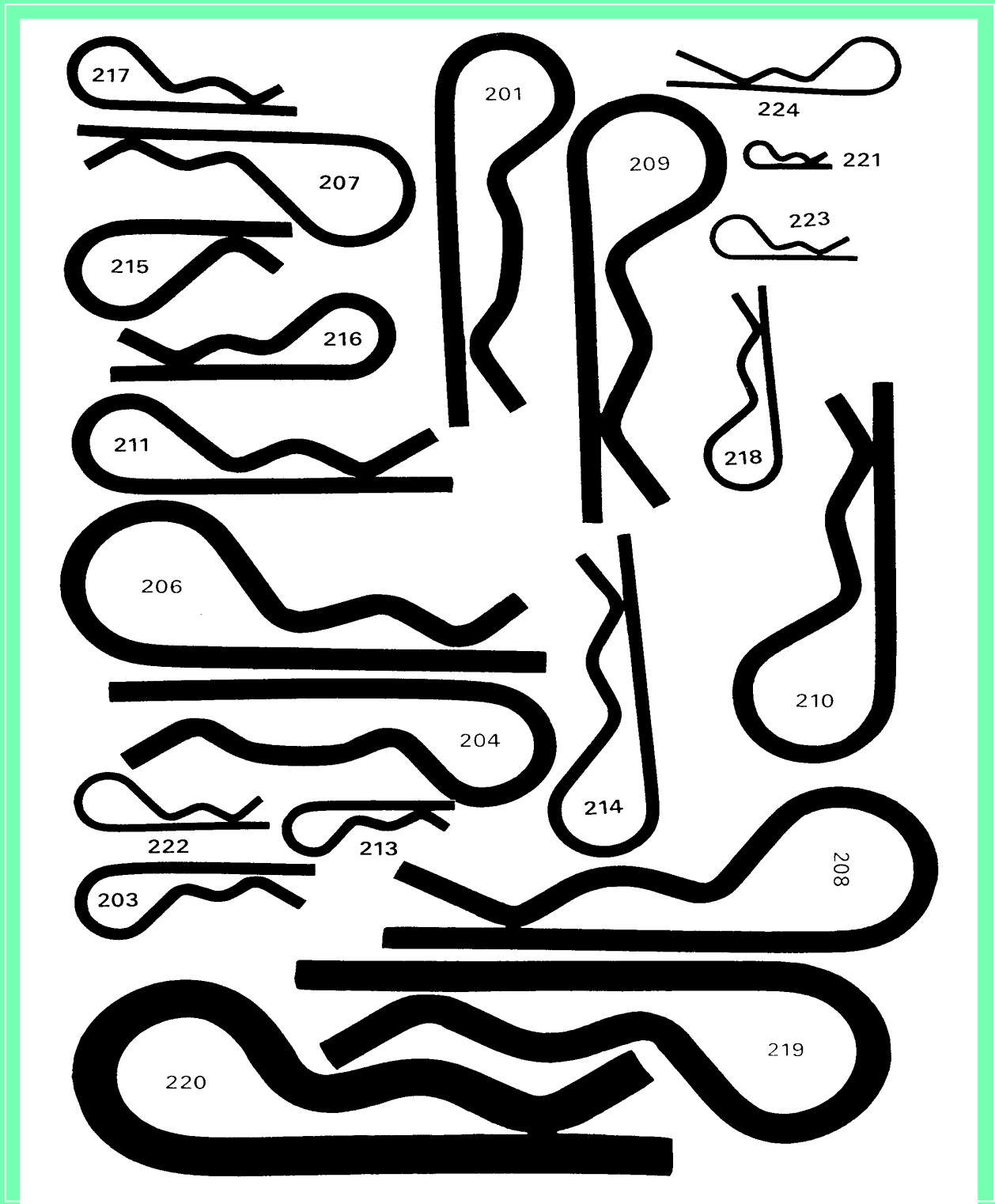
POLY BOX ASSORTMENT

60122 15 PIECES VARIOUS PINS
 3 OF # 203, 4 OF # 210, 4 OF # 211, AND 4 OF # 6



PINS, BUSHINGS & STRAPS

HAIR PINS ACTUAL SIZES





PINS, BUSHINGS & STRAPS

ROLL PINS

PLAIN CARBON STEEL HARDNESS, ROCKWELL C SCALE 46-53

LENGTH	DIAMETER					
	1/16	5/64	3/32	1/8	5/32	3/16
3/16	60600	60614				
1/4	60601	60615	60632	60649		
5/16	60602	60616	60633			
3/8	60603	60617	60634	60650	60669	60690
7/16	60604	60618	60635	60651	60670	
1/2	60605	60619	60636	60652	60671	60691
9/16	60606	60620	60637	60653	60672	60692
5/8	60607	60621	60638	60654	60673	60693
11/16	60608	60622	60639	60655	60674	60694
3/4	60609	60623	60640	60656	60675	60695
13/16	60610	60624	60641	60657	60676	60696
7/8	60611	60625	60642	60658	60677	60697
15/16	60612	60626	60643	60659	60678	60698
1	60613	60627	60644	60660	60679	60699
1-1/8		60628	60645	60661	60680	60700
1-1/4		60629	60646	60662	60681	60701
1-3/8		60630	60647	60663	60682	60702
1-1/2		60631	60648	60664	60683	60703
1-5/8				60665	60684	60704
1-3/4				60666	60685	60705
1-7/8				60667	60686	60706
2				60668	60687	60707
2-1/4					60688	60708
2-1/2					60689	60709
PACKAGE	50	50	50	50	50-5/8 25-11/16	25



CONFORMS TO SPECIFICATIONS:

MILP 10971, MS 171401 THRU MS 171900, MS 9047, MS 9048

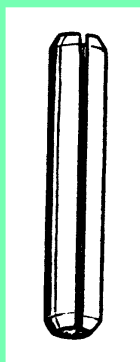
MS 16562, NAS 561, SAE STANDARD J 496.



PINS, BUSHINGS & STRAPS

ROLL PINS CON'T

PLAIN CARBON STEEL HARDNESS, ROCKWELL C SCALE 46-53 CON'T



LENGTH	DIAMETER					
	7/32	1/4	5/16	3/8	7/16	1/2
1/2		60730				
9/16	60710					
5/8	60711	60731				
11/16	60712	60732				
3/4	60713	60733	60752	60773		
13/16	60714	60734	60753			
7/8	60715	60735	60754			
15/16	60716	60736	60755			
1	60717	60737	60756	60774	60787	
1-1/8	60718	60738	60757			
1-1/4	60719	60739	60758	60775	60788	60800
1-3/8	60720	60740	60759			
1-1/2	60721	60741	60760	60776	60789	60801
1-5/8	60722	60742	60761			
1-3/4	60723	60743	60762	60777	60790	60802
1-7/8	60724	60744	60763			
2	60725	60745	60764	60778	60791	60803
2-1/4	60726	60746	60765	60779	60792	60804
2-1/2	60727	60747	60766	60780	60793	60805
2-3/4	60728	60748	60767	60781	60794	60806
3	60729	60749	60768	60782	60795	60807
3-1/4		60750	60769	60783	60796	60808
3-1/2		60751	60770	60784	60797	60809
3-3/4			60771	60785	60798	60810
4			60772	60786	60799	60811
PKG.	25	25	25-1 5/8 10-4	10	10	10

ROLL PIN ASSORTMENTS

60813 - 45 PIECES, 3/32 THRU 1/2 DIAMETERS, IN VARIOUS LENGTHS.

60814 - 45 PIECES, 1/16 THRU 1/4 DIAMETERS, IN VARIOUS LENGTHS.



SCREWS

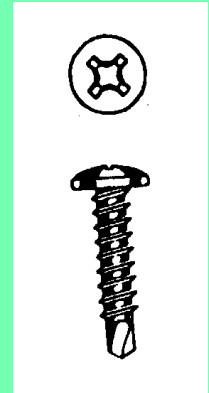
SCREWS

DRILL & TAP

PHILLIPS PAN HEAD STEEL ZINC PLATED

LENGTH	6-20	8-18	10-16	12
3/8	19005			
1/2	19006	19010	19020	19028
5/8		190101		
3/4	19007	19012	19022	19029
1	19008	19013	19023	19030
1-1/4			19024	
1-1/2	19009	19014	19025	190302

DRIVE SIZE IS 2
PACKAGE ON ALL IS 100



PHILLIPS PAN HEAD STAINLESS STEEL

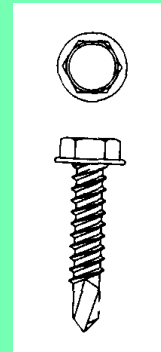
LENGTH	6	8	10	12	1/4
1/2	18800	18810	18820	18830	18840
3/4	18802	18812	18822	18832	18842
1	18804	18814	18824	18834	18844
1-1/2		18816	18825		

PACKAGE IS 100

HEX WASHER HEAD STAINLESS STEEL

LENGTH	6	8	10	12	14
1/2	19120	19125	19132		
5/8			19133		
3/4	19121	19126	19134	19140	19146
1	19122	19127	19135	19141	19147
1-1/2		19129	19137	19143	19148
2			19139	19145	19149

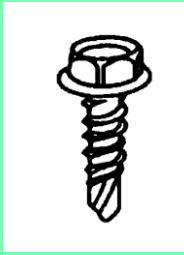
PACKAGE IS 100 TO 10 X 1 AND UP IS 50





SCREWS

DRILL & TAP CON'T HEX WASHER HEAD



LENGTH	6-20 DIAMETER		
	POINT SIZE	DRIVE SIZE	PART NUMBER
1/2	2	1/4	19031

LENGTH	8-18 DIAMETER		
	POINT SIZE	DRIVE SIZE	PART NUMBER
1/2	2	1/4	19036
3/4	2	1/4	19038
1	2	1/4	19039
1-1/4	2	1/4	190391
1-1/2	2	1/4	19040
2	2	1/4	19041

LENGTH	10-16 DIAMETER		
	POINT SIZE	DRIVE SIZE	PART NUMBER
1/2	3	5/16	19045
5/8	3	5/16	19046
3/4	3	5/16	19047
1	3	5/16	19048
1-1/4	3	5/16	19049
1-1/2	3	5/16	19050
2	3	5/16	19051

LENGTH	12-14 DIAMETER		
	POINT SIZE	DRIVE SIZE	PART NUMBER
3/4	3	5/16	19065
1	3	5/16	19066
1-1/4	3	5/16	19067
1-1/2	3	5/16	19068
2	3	5/16	19069
2-1/2	3	5/16	19070
3	3	5/16	19071

LENGTH	14-14 DIAMETER		
	POINT SIZE	DRIVE SIZE	PART NUMBER
3/4	3	3/8	19087
1	3	3/8	19088
1-1/4	3	3/8	19089
1-1/2	3	3/8	19090
1-3/4	3	3/8	190901
2	3	3/8	19091
2-1/2	3	3/8	19092
3	3	3/8	19093

LENGTH	5/16 DIAMETER		
	POINT SIZE	DRIVE SIZE	PART NUMBER
1	3	3/8	19096



SCREWS

METRIC SOCKET SET

CUP POINT - ALLOY STEEL



LENGTH	DIAMETER			
	1.6	2.0	2.5	3
2.5	MS01.602.5	MS2.002.5		
3	MS01.6003	MS02003	MS02.5003	MS03003
4	MS01.6004	MS02004	MS02.5004.	MS03004
5	MS01.6005	MS02005	MS02.5005	MS03005
6		MS02006	MS02.5006	MS03006
8		MS02008	MS02.5008	MS03008
10		MS02010	MS02.5010	MS03010
12				MS03012
16				MS03016

LENGTH	DIAMETER			
	4	5	6	8
4	MS04004			
5	MS04005	MS05005		
6	MS04006	MS05006	MS06006	
8	MS04008	MS05008	MS06008	MS08008
10	MS04010	MS05010	MS06010	MS08010
12	MS04012	MS05012	MS06012	MS08012
16	MS04016	MS05016	MS06016	MS08016
20	MS04020	MS05020	MS06020	MS08020
25	MS04025	MS05025	MS06025	MS08025
30		MS05030	MS06030	MS08030
35		MS05035	MS06035	MS08035
40		MS05040	MS06040	MS08040
45			MS06045	MS08045
50			MS06050	MS08050

LENGTH	DIAMETER			
	10	12	16	20
10	MS10010			
12	MS10012	MS12012		
16	MS10016	MS12016	MS16016	
20	MS10020	MS12020	MS16020	MS20020
25	MS10025	MS12025	MS16025	MS20025
30	MS10030	MS12030	MS16030	MS20030
35	MS10035	MS12035	MS16035	MS20035
40	MS10040	MS12040	MS16040	MS20040
45	MS10045	MS12045	MS16045	MS20045
50	MS10050	MS12050	MS16050	MS20050
55	MS10055	MS12055	MS16055	MS20055
60	MS10060	MS12060	MS16060	MS20060
70		MS12070		MS20070
80		MS12080		MS20080

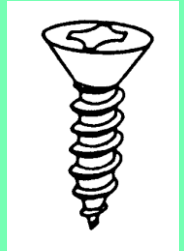


SCREWS

SHEET METAL

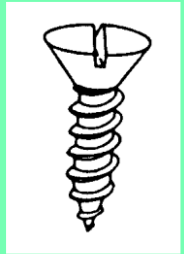
PHILLIPS FLAT HEAD STEEL ZINC PLATED

LENGTH	#4	#6	#7	#8	#10	#12	1/4
1/4	17700	17710	17720				
3/8	17701	17711	17721	17730			
1/2	17702	17712	17722	17731	17741	17750	17760
3/4	17703	17713	17723	17732	17742	17751	17761
1	17704	17714	17724	17733	17743	17752	17762
1-1/4		17715	17725	17734	17744	17753	17763
1-1/2		17716	17726	17735	17745	17754	17764
1-3/4		17717		177351	177451	177541	
2		17718		17736	17746	17755	17765
2-1/2				17738	17747		



SLOTTED FLAT HEAD STEEL ZINC PLATED

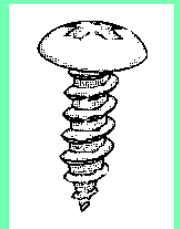
LENGTH	DIAMETER						
	#4	#6	#7	#8	#10	#12	1/4
1/4	17620	17630	17640				
3/8		17631	17641	17650	17660		
1/2	17622	17632	17642	17651	17661	17670	17680
3/4	17623	17633	17643	17652	17662	17671	17681
1	17624	17634	17644	17653	17663	17672	17682
1-1/4	17625	17635	17645	17654	17664	17673	17683
1-1/2		17636	17646	17655	17665	17674	17684
2		17637		17656	17666	17675	17685



PACKAGE QUANTITIES ARE 100

STAINLESS STEEL TRUSS HEAD

LENGTH	DIAMETER					
	#4	#6	#8	#10	#12	#14
1/4	14730	14740				
3/8	14732	14742	14752			
1/2	14734	14744	14754	14765	14775	14782
5/8		14745	14756	14766		
3/4	14736	14746	14757	14767	14777	14784
7/8			14758	14768		
1	14738	14748	14759	14769	14778	14786
1-1/4		14749	14760	14770	14779	14787
1-1/2		14750	14761	14771	14780	14788



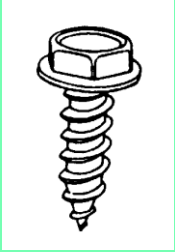
PACKAGE QUANTITIES ARE 100



SCREWS

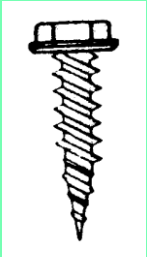
SHEET METAL CON'T

HEX WASHER HEAD STEEL ZINC PLATED



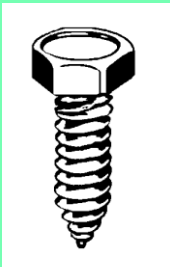
LENGTH	#12	#14	5/16	3/8	PACKAGE
1/2	17350	17370			100
5/8	17351	17371			100
3/4	17352	17372	17390		100
1	17353	17373	17391	17396	100
1-1/4	17354	17374	17392	17397	100
1-1/2	17355	17375	17394	17398	100
1-3/4	17356	17376			100
2	17357	17377	17395	17399	50
2-1/2	17359	17379			50
3	17350	17381			50

HEX WASHER HEAD EXTRA SHARP



LENGTH	#8	#10	PACKAGE	#8	#10	PACKAGE
1/2	17410	17420	100	174100	174200	1000
5/8	17411		100	174110		1000
3/4	17412	17422	100	174120	174220	1000
1	17413	17423	100	174130	174230	1000
1-1/2		17424	100		174240	1000

HEX HEAD STEEL ZINC PLATED



LENGTH	DIAMETER			
	#4	#6	#8	#10
1/4	17200	17207		
3/8	17201	17208	17219	17229
1/2	17202	17209	17220	17230
5/8	17203	17210	17221	17231
3/4	17204	17211	17222	17232
1		17212	17223	17233
1-1/4			17224	17234
1-1/2				17235
1-3/4				17236
2				17237

LENGTH	DIAMETER			
	#12	#14	5/16	3/8
1/2	17242	17259		
5/8	17243	17260		
3/4	17244	17261	17275	17281
1	17245	17262	17276	17282
1-1/4	17246	17263		17283
1-1/2	17247	17264	17278	17284
1-3/4	17248	17265		
2	17249	17266		

PACKAGE IS 100

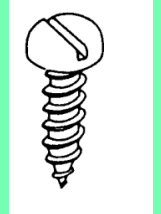


SCREWS

SHEET METAL CON'T

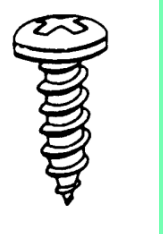
SLOTTED PAN HEAD STEEL ZINC PLATED

LENGTH	#4	#6	#8	#10	#12	#14
1/4	17001	17006				
3/8	17002	17007	17015	17027		
1/2	17003	17008	17016	17028	17039	17050
5/8	17004	17009	17017	17029	17040	17051
3/4	17005	17010	17018	17030	17041	17052
7/8		17011	17019	17031	17042	17053
1		17012	17020	17032	17043	17054
1-1/4		17013	17021	17033	17044	17055
1-1/2		17014	17022	17034	17045	17056
1-3/4			17023	17035	17046	17057
2			17024	17036	17047	17058
2-1/2			17025	17037	17048	17059
3				17038	17049	17060



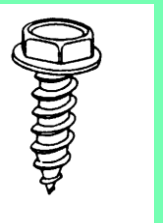
PHILLIPS PAN HEAD STEEL ZINC PLATED

LENGTH	#4	#6	#8	#10	#12	#14
1/4	17100	17105				
3/8	17101	17106	17114	17123		
1/2	17102	17107	17115	17124	17132	17140
5/8	17103	17108	17116	17125	17133	17141
3/4	17104	17109	17117	17126	17134	17142
1		17110	17118	17127	17135	17143
1-1/4		17111	17119	17128	17136	17144
1-1/2		17112	17120	17129	17137	17145
1-3/4		17113	17121	17130	17138	17146
2			17122	17131	17139	17148
2-1/2			171222			
3				171312		
4				171314		



HEX WASHER HEAD STEEL ZINC PLATED

LENGTH	#4	#6	#8	#10
1/4	17300	17309		
3/8	17301	17310	17320	17332
1/2	17302	17311	17321	17333
5/8	17303	17312	17322	17334
3/4	17304	17313	17323	17335
1		17314	17324	17336
1-1/4		17315	17325	17337
1-1/2		17316	17326	17338
1-3/4				17339
2			17328	17340
2-1/4				17341
2-1/2				17342
3				17343



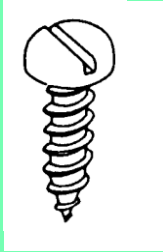
PACKAGE QUANTITIES ARE 100



SCREWS

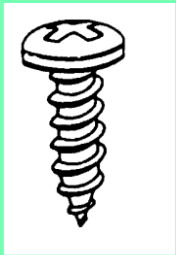
SHEET METAL CON'T

SLOTTED PAN HEAD



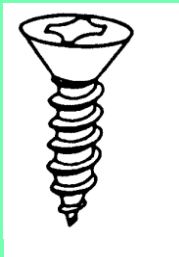
LENGTH	#4	#6	#7	#8	#10	#12	#14
1/4	17450	17460					
3/8	17451	17461	17471	17481	17490		
1/2	17452	17462	17472	17482	17491	17500	17510
3/4	17453	17463	17473	17483	17492	17501	17511
1	17454	17464	17474	17484	17493	17502	17512
1-1/4		17465	17475	17485	17494	17503	17513
1-1/2		17466	17476	17486	17495	17504	17514
1-3/4				17487	17496	17505	17515
2				17488	17497	17506	17516
2-1/2					17498	17507	
3					17499	17508	

PHILLIPS PAN HEAD



LENGTH	DIAMETER					
	#4	#6	#8	#10	#12	#14
1/4	14390	14400				
3/8	14391	14401	14414			
1/2	14392	14402	14415	14430	14445	14460
5/8		14403	14416	14431	144451	
3/4	14393	14404	14417	14432	14446	14461
7/8			14418	14433		
1	14394	14405	14419	14434	14447	14462
1-1/4		14406	14420	14435	14448	14463
1-1/2		14407	14421	14436	14449	14464
2			14422	14437	14450	14465
2-1/2			14423	14438	14451	14466
3			14424	14439	14452	14467

PHILLIPS FLAT HEAD



LENGTH	DIAMETER				
	#6	#8	#10	#12	#14
3/8	14500	14510			
1/2	14501	14511	14525	14540	
5/8	14502	14512	14526		
3/4	14503	14513	14527	14541	
7/8	14504	14514	14528		
1	14505	14515	14529	14542	14557
1-1/4	14506	14516	14530	14543	14558
1-1/2	14507	14517	14531	14544	14559
1-3/4			14532	14545	14560
2		14518	14533	14546	14561
2-1/2		14519	14534	14547	14562
3		14520	14535	14548	14563

ALL PACKAGE QUANTITIES ARE 100



SCREWS

SHEET METAL CON'T

PHILLIPS OVAL HEAD STEEL ZINC PLATED

LENGTH	DIAMETER					
	HEAD	#4	HEAD	#6	HEAD	#8
3/8	4	17771	6	17775	8	17785
3/8	2	17772	4	17776	6	17786
1/2	4	17773	6	17777	8	17787
1/2			6	17779	6	17788
5/8					8	17789
5/8					6	17790
3/4	4	17774	6	17780	8	17791
3/4			4	17781	6	17792
7/8			6	17782	8	17793
1			6	17783	8	17794
1					6	17795
1-1/4			6	17784	8	17796
1-1/4					6	17797
1-1/2					8	17798
1-1/2					6	17799
1-3/4					6	17800
2					6	17801
2-1/4					8	17802
2-1/4					6	17803
2-1/2					6	17804



LENGTH						
	HEAD	#10	HEAD	#12	HEAD	#14
1/2	10	17805				
1/2	8	17806				
1/2	6	17807	12	17829		
5/8	10	17808				
5/8	8	17809				
3/4	10	17810				
3/4	8	17811	12	17830		
3/4	6	17812	10	17831		
7/8	10	17813				
1	10	17814	12	17832	14	17835
1	8	17815				
1	6	17816				
1-1/4	10	17817	12	17833		17836
1-1/4	8	17818				
1-1/4	6	17819				
1-1/2	10	17820	12	17834	14	17837
1-1/2	8	17821				
1-1/2	6	17822				
1-3/4	10	17823				17838
1-3/4	8	17824				
1-3/4	6	17825				
2	10	17826				
2	8	17827				
2-1/2	10	17828				

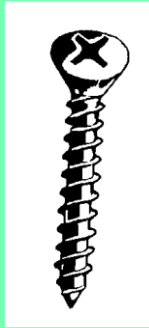
ALL PACKAGE QUANTITIES ARE 100



SCREWS

SHEET METAL CON'T

PHILLIPS OVAL HEAD STAINLESS STEEL

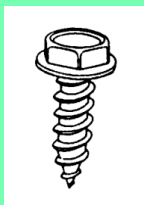


LENGTH	DIAMETER		
	#4	#6	#8
1/4	14590	14599	
3/8	14591	14600	14615
1/2	14592	14601	14616
5/8		14602	14617
3/4	14593	14603	14618
7/8		14604	14619
1	14594	14605	14620
1-1/4	14595	14606	14621
1-1/2		14607	14622
1-3/4			14623
2	14597		14624
2-1/2			14625
3			14626

LENGTH	DIAMETER		
	#10	#12	#14
1/2	14630	14645	
5/8	14631		
3/4	14632	14646	14660
7/8	14633		
1	14634	14647	14661
1-1/4	14635	14648	14662
1-1/2	14636	14649	14663
1-3/4	14637		
2	14638	14650	14664
2-1/2	14639	14651	14665
3	14640	14652	14666

PACKAGE QUANTITY ON ALL IS 100

STAINLESS STEEL HEX WASHER HEAD



LENGTH	#6	#8	#10	#14
1/4		14820		
5/16		14821		
3/8	14810	14822	14832	
1/2	14812	14824	14834	14860
5/8	14813	14825	14835	
3/4	14814	14826	14836	14862
7/8			14838	
1	14816	14828	14839	14864
1-1/4	14817	14829	14840	14865
1-1/2		14830	14841	14866
1-3/4			14842	14867
2			14843	14868

PACKAGE QUANTITY IS 100 UP TO 14X1-1/2, 1-3/4, & 2 WHICH IS 50

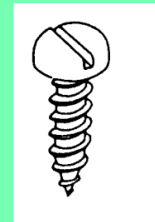
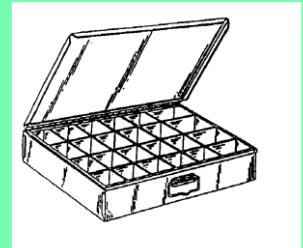


SCREWS

SHEET METAL CON'T METAL TRAY ASSORTMENTS

80021, 80021L PAN HEAD 15 ITEMS, 625 PIECES

17006 6 X 1/4	17008 6 X 1/2	17010 6 X 3/4
17015 8 X 3/8	17016 8 X 1/2	17018 8 X 3/4
17020 8 X 1	17028 10 X 1/2	17030 10 X 3/4
17032 10 X 1	17033 10 X 1 1/4	17043 12 X 1
17052 14 X 3/4	17054 14 X 1	17056 14 X 1 1/2



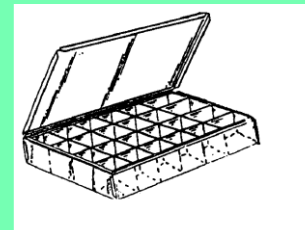
80022, 80022L HEX HEAD 14 ITEMS, 525 PIECES

17220 8 X 1/2	17230 10 X 1/2	17233 10 X 1
17242 12 X 1/2	17245 12 X 1	17259 14 X 1/2
17261 14 X 3/4	17262 14 X 1	17263 14 X 1 1/4
17275 5/16 X 3/4	17276 5/16 X 1	17277 5/16 X 1 1/4
17278 5/16 X 1 1/2	17282 3/8 X 1	

PLASTIC TRAY ASSORTMENTS

80051 PAN HEAD 9 ITEMS, 210 PIECES

17006 6 X 1/4	17018 8 X 3/4	17030 10 X 3/4
17010 6 X 3/4	17020 8 X 1	17032 10 X 1
17016 8 X 1/2	17028 10 X 1/2	17054 14 X 1



80052 HEX HEAD 7 ITEMS, 145 PIECES

17220 8 X 1/2	17242 12 X 1/2	17262 14 X 1
17230 10 X 1/2	17245 12 X 1	
17233 10 X 1	17259 14 X 1/2	



SCREWS

SOCKET SET

CUP POINT ALLOY STEEL

LENGTH	DIAMETER			
	4-40	5-40	6-32	6-40
1/8	10300	10307	10315	11300
3/16	10301	10308	10316	11301
1/4	10302	10309	10317	11302
5/16	10303	10310	10318	11303
3/8	10304	10311	10319	11304
7/16			10320	
1/2	10305	10312	10321	
5/8	10306	10313	10322	
3/4		10314	10323	
7/8			10324	
1			10325	



LENGTH	DIAMETER			
	8-32	8-36	10-24	10-32
1/8	10326	11305		113109
3/16	10327	11306	10337	11311
1/4	10328	11307	10338	11312
5/16	10329	11308	10339	11313
3/8	10330	11309	10340	11314
7/16	10331		10341	11315
1/2	10332	11310	10342	11316
5/8	10333		10343	11317
3/4	10334		10344	11318
7/8	10335		10345	
1	10336		10346	11319
1-1/4			10347	11320
1-1/2				113201

ALL PACKAGE QUANTITIES ARE 100



SCREWS

SOCKET SET CON'T

CUP POINT ALLOY STEEL CON'T



LENGTH	DIAMETER				
	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
3/16	10348				
1/4	10349	10362	10375		
5/16	10350	10363	10376		
3/8	10351	10364	10377	10390	10400
7/16	10352	10365	10378	10391	10401
1/2	10353	10366	10379	10392	10402
5/8	10354	10367	10380	10393	10403
3/4	10355	10368	10381	10394	10404
7/8	10356	10369	10382	10395	10405
1	10357	10370	10383	10396	10406
1-1/4	10358	10371	10384	10397	10407
1-1/2	10359	10372	10385	10398	10408
1-3/4	10360	10373	10386	103981	10409
2	10361	10374	10387	10399	10410
2-1/2			10388		10411
3					10412

LENGTH	DIAMETER			
	5/8-11	3/4-10	7/8-9	1-8
1/2	10413			
5/8	10414	10424		
3/4	10415	10425		
7/8	10416		10433	
1	10417	10426	10434	10439
1-1/4	10418	10427		
1-1/2	10419	10428	10435	10440
1-3/4	10420	10429		
2	10421	10430	10436	10441
2-1/2	10422	10431	10437	10442
3	10423	10432	10438	10443

DIAMETER	PACKAGE QUANTITIES		
	100	50	25
1/4	ALL		
5/16	ALL		
3/8	ALL		
7/16	ALL		
1/2	3/8 - 1-1/2	1-3/4 - 3	
5/8		ALL	
3/4		1-1/2	1-3/4 - 3
7/8			ALL
1			ALL



SCREWS

SOCKET SET CON'T

CUP POINT ALLOY STEEL CON'T

LENGTH	DIAMETER					
	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18
3/16	11321					
1/4	11322	11331	11340			
5/16	11323	11332	11341			
3/8	11324	11333	11342	11350		
7/16	11325	11334	11343	11351		
1/2	11326	11335	11344	11352	11353	
5/8	11327	11336	11345		11354	11357
3/4	11328	11337	11346		11355	
1	11329	11338	11347		11356	11358
1-1/4	11330	11339	11348			
1-1/2			11349	113526		
2				113527		
3						113584



DIAMETER	PACKAGE QUANTITIES		
	100	50	20
1/4	ALL		
5/16	ALL		
3/8	ALL		
7/16	ALL		ALL
1/2	ALL		
5/8		ALL	



SCREWS

METRIC SOCKET SET

CUP POINT - ALLOY STEEL



LENGTH	DIAMETER			
	1.6	2.0	2.5	3
2.5	MS01.602.5	MS2.002.5		
3	MS01.6003	MS02003	MS02.5003	MS03003
4	MS01.6004	MS02004	MS02.5004.	MS03004
5	MS01.6005	MS02005	MS02.5005	MS03005
6		MS02006	MS02.5006	MS03006
8		MS02008	MS02.5008	MS03008
10		MS02010	MS02.5010	MS03010
12				MS03012
16				MS03016

LENGTH	DIAMETER			
	4	5	6	8
4	MS04004			
5	MS04005	MS05005		
6	MS04006	MS05006	MS06006	
8	MS04008	MS05008	MS06008	MS08008
10	MS04010	MS05010	MS06010	MS08010
12	MS04012	MS05012	MS06012	MS08012
16	MS04016	MS05016	MS06016	MS08016
20	MS04020	MS05020	MS06020	MS08020
25	MS04025	MS05025	MS06025	MS08025
30		MS05030	MS06030	MS08030
35		MS05035	MS06035	MS08035
40		MS05040	MS06040	MS08040
45			MS06045	MS08045
50			MS06050	MS08050

LENGTH	DIAMETER			
	10	12	16	20
10	MS10010			
12	MS10012	MS12012		
16	MS10016	MS12016	MS16016	
20	MS10020	MS12020	MS16020	MS20020
25	MS10025	MS12025	MS16025	MS20025
30	MS10030	MS12030	MS16030	MS20030
35	MS10035	MS12035	MS16035	MS20035
40	MS10040	MS12040	MS16040	MS20040
45	MS10045	MS12045	MS16045	MS20045
50	MS10050	MS12050	MS16050	MS20050
55	MS10055	MS12055	MS16055	MS20055
60	MS10060	MS12060	MS16060	MS20060
70		MS12070		MS20070
80		MS12080		MS20080

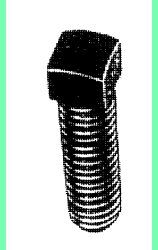


SCREWS

SQUARE HEAD

CUP POINT, HEAT TREATED, COARSE THREAD

LENGTH	DIAMETER				
	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
3/8	11600				
1/2	11601	11613	11625		
5/8	11602	11614	11626		11650
3/4	11603	11615	11627	11641	11651
7/8	11604	11616	11628		11652
1	11605	11617	11629	11642	11653
1-1/4	11606	11618	11630	11643	11654
1-1/2	11607	11619	11631	11644	11655
1-3/4	11608	11620	11632	11645	11656
2	11609	11621	11633	11646	11657
2-1/4	11610	11622	11634	11647	11658
2-1/2	11611	11623	11635	11648	11659
2-3/4					11660
3	11612	11624	11636	11649	11661
3-1/2			11637		11662
4			11638		11663
4-1/2			11639		11664
5			11640		11665
6					11666



DIAMETER	PACKAGE QUANTITIES		
	100	50	25
1/4	3/8 - 3		
5/16	1/2 - 3		
3/8	1/2 - 3	3 1/2 - 5	
7/16	3/4 - 1 3/4	2 - 3	
1/2	5/8 - 2	2 1/4 - 3	3 1/2 - 6

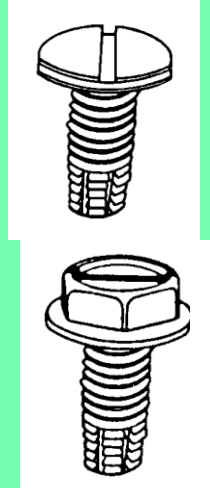


SCREWS

THREAD CUTTING STEEL ZINC PLATED

SLOTTED PAN HEAD

LENGTH	6-32	8-32	10-24	10-32	1/4-20
3/8		16151			
1/2		16152	16190	16200	16220
3/4	16143	16153	16192	16201	16222
1			16194	16202	16224
1-1/2			16196	16203	16226

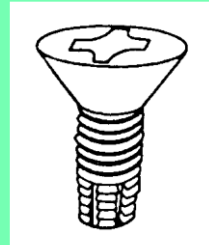


HEX WASHER HEAD

LENGTH	10-24	12-24	1/4-20	5/16-18	3/8-16
3/8			16349		
1/2	16302	16310	16350	16402	
3/4	16304		16352	16404	16452
1	16306		16354	16406	16454
1-1/2			16356		16456

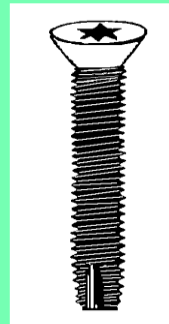
PHILLIPS FLAT HEAD

LENGTH	1/4-20
1-1/2	16499
1-3/4	16500
2	16502
2-1/4	16504
2-1/2	16506
3	16508



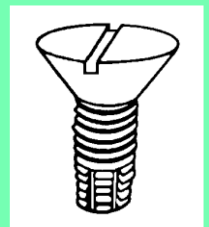
TORX DRIVE FLAT HEAD

LENGTH	1/4-20	5/16-18
1	16517	16528
1-1/4	16518	
1-1/2	16519	16529
1-3/4	16520	16530
2	16521	16531
2-1/4	16522	16532
2-1/2	16523	16533
2-3/4	16524	
3	16525	16535
DRIVER	78511	78512



SLOTTED FLAT HEAD

LENGTH	DIAMETER
	1/4-20
1-1/2	16550
1-3/4	16551
2	16552
2-1/4	16553
2-1/2	16554



ALL PACKAGE QUANTITIES ARE 100



SCREWS

WOOD

SLOTTED FLAT HEAD STEEL ZINC PLATED

LENGTH	DIAMETER				
	#4	#5	#6	#7	#8
1/4	18020				
3/8	18021	18041	18060		
1/2	18022	18042	18061	18080	18100
5/8	18023	18043	18062	18081	18101
3/4	18024	18044	18063	18082	18102
7/8	18025	18045	18064	18083	18103
1	18026	18046	18065	18084	18104
1 1/4	18027	18047	18066	18085	18105
1 1/2	18028	18048	18067	18086	18106
1 3/4			18068	18087	18107
2			18069	18088	18108
2 1/4			18070	18089	18109
2 1/2			18071	18090	18110
3					18111
3 1/2					18112
4					18113

LENGTH	DIAMETER			
	#9	#10	#12	#14
1/2	18120	18140		
5/8	18121	18141	18161	
3/4	18122	18142	18162	18180
7/8	18123	18143	18163	18181
1		18144	18164	18182
1 1/4	18125	18145	18165	18183
1 1/2	18126	18146	18166	18184
1 3/4	18127	18147	18167	18185
2	18128	18148	18168	18186
2 1/4	18129	18149	18169	18187
2 1/2	18130	18150	18170	18188
3	18131	18151	18171	18189
3 1/2	18132	18152	18172	18190
4		18153	18173	18191
4 1/2				18192
5				18193
6				18194

ALL PACKAGE QUANTITIES ARE 100



SCREWS

WOOD CON'T

PHILLIPS FLAT HEAD STEEL ZINC PLATED

LENGTH	DIAMETER				
	#4	#5	#6	#7	#8
1/2	18400	18410	18420	18430	18440
5/8	18401	18411	18421	18431	18441
3/4	18402	18412	18422	18432	18442
7/8	18403	18413	18423	18433	18443
1	18404	18414	18424	18434	18444
1 1/4	18405	18415	18425	18435	18445
1 1/2			18426	18436	18446
1 3/4			18427	18437	18447
2			18428	18438	18448
2 1/4					18449
2 1/2					18450
3					18451
3 1/2					18452

LENGTH	DIAMETER			
	#9	#10	#12	#14
1/2	18460	18480		
5/8	18461	18481		
3/4	18462	18482	18500	18520
7/8	18463	18483	18501	18521
1	18464	18484	18502	18522
1 1/4	18465	18485	18503	18523
1 1/2	18466	18486	18504	18524
1 3/4	18467	18487	18505	18525
2	18468	18488	18506	18526
2 1/4	18469	18489	18507	18527
2 1/2	18470	18490	18508	18528
3	18471	18491	18509	18529
3 1/2	18472	18492	18510	18530
4			18511	18531

ALL PACKAGE QUANTITIES 100

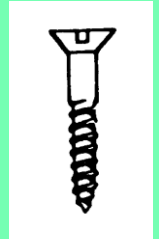


SCREWS

WOOD CON'T

SLOTTED FLAT HEAD BRASS

LENGTH	DIAMETER				
	#4	#5	#6	#7	#8
1/4	18560	18570			
3/8	18561	18571	18580		
1/2	18562	18572	18581	18591	18600
5/8	18563	18573	18582	18592	18601
3/4	18564	18574	18583	18593	18602
7/8			18584	18594	18603
1		18575	18585	18595	18604
1 1/4			18586	18596	18605
1 1/2			18587	18597	18606
1 3/4					18607
2					18608
2 1/2					18609
3					18610



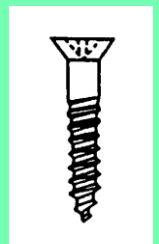
LENGTH	DIAMETER			
	#9	#10	#12	#14
1/2		18640		
5/8	18621	18641		
3/4	18622	18642	18660	
7/8	18623	18643	18661	
1	18624	18644	18662	18672
1 1/4	18625	18645	18663	18673
1 1/2	18626	18646	18664	18674
1 3/4	18627	18647	18665	18675
2	18628	18648	18666	18676
2 1/2		18649	18667	18677
3		18650	18668	18678

PACKAGE ON ALL IS 100

PHILLIPS FLAT HEAD BRASS

LENGTH	#4	#6	#8	#10	#12	#14
1/4	18201					
3/8	18202					
1/2	18203	18207	18213			
5/8	18204	18208	18214			
3/4	18205	18209	18215	18220		
1	18206	18210	18216	18221	18227	18233
1-1/4		18211	18217	18222	18228	18234
1-1/2		18212	18218	18223	18229	18235
2		182121	18219	18224	18230	18236
2-1/2			182191	18225	18231	18237
3			182192	18226	18232	18238
3 1/2		182124				

PACKAGE IS 100 UP TO 1-1/2 IS 50, 2 & 3 ARE 25

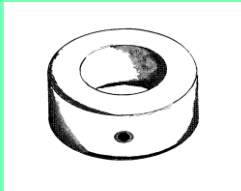




SHAFT SET COLLARS

SHAFT SET COLLARS

STEEL WITH SOCKET SET SCREW

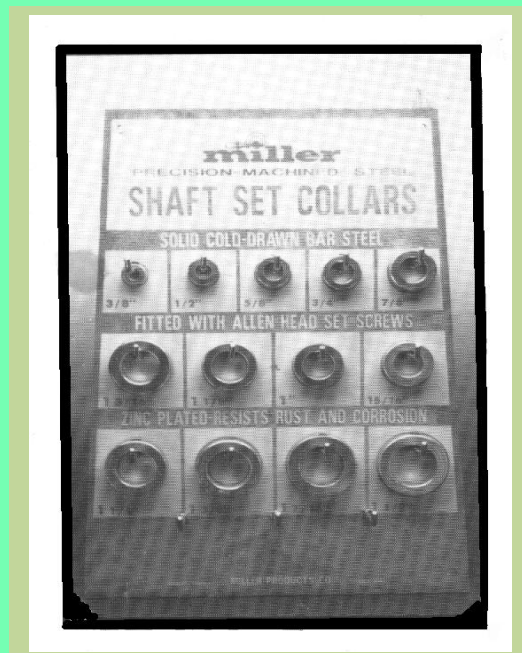


I.D.	O.D.	THICKNESS	PART NUMBER	PACKAGE
3/8	3/4	3/8	60830	1
1/2	1	7/16	60831	1
5/8	1-1/8	1/2	60832	1
3/4	1-1/4	9/16	60833	1
7/8	1-1/2	9/16	60834	1
15/16	1-5/8	9/16	60835	1
1	1-5/8	9/16	60836	1
1-1/8	1-3/4	5/8	60837	1
1-3/16	2	11/16	60838	1
1-1/4	2	11/16	60839	1
1-3/8	2-1/8	3/4	60840	1
1-7/16	2-1/4	3/4	60841	1
1-1/2	2-1/4	3/4	60842	1

ASSORTMENT

60850

MFG ASSORTMENT WITH DISPLAY BOARD #SCD-40
40 ITEM, 13 SIZES, 4 EACH OF 3/8-1 AND 2 EACH OF 1-1/8 – 1-1/2





TAPES & WIRE

STUDS GENERAL PURPOSE

1/4 STUDS

DESCRIPTION	OAL	PART NUMBER
1/4-28X7/16 - 1/4-20X7/16	1"	65110
1/4-28X1/2 - 1/4-20X1/2	1-1/4	65111
1/4-28X3/4 - 1/4-20X1/2	1-1/2	65112
1/4-28X1 - 1/4-20X1/2	2	65113



5/16 STUDS

DESCRIPTION	OAL	PART NUMBER
5/16-24X1/2 - 5/16-18X3/8	1	65116
5/16-24X5/8 - 5/16-18X3/4	1-1/4	65117
5/16-24X7/8 - 5/16-18X9/16	1-3/4	65119
5/16-24X1 - 5/16-18X9/16	2	65120
5/16-24X1-1/2 - 5/16-18X1/2	2-1/2	65121
5/16-24X1-5/8 - 5/16-18X1/2	2-1/2	65122
5/16-24X7/8 - 5/16-18X7/16	1-1/2	65123
5/16-24X1 - 5/16-18X7/16	2	65124
5/16-24X1-1/2 - 5/16-18X5/8	3	65125

3/8 STUDS

DESCRIPTION	OAL	PART NUMBER
3/8-24X3/4 - 3/8-16X1/2	1-1/2	65128
3/8-24X3/4 - 3/8-16X1/2	1-3/4	65129
3/8-24X3/4 - 7/16-14X7/8	1-7/8	65130
3/8-24X1 - 7/16-14X5/8	2	65131
3/8-16X1-1/8 - 3/8-16X5/8	2	65132
3/8-16X1 - 3/8-16X5/8	2-1/8	65133
3/8-16X1-1/2 - 3/8-16X7/16	2-7/32	65134
3/8-24X1 - 3/8-16X3/4	2-3/4	65135
3/8-24X2 - 3/8-16X5/8	3	65136
3/8-16X5/8 - 3/8-16X2	3	65137
3/8-16X1-5/8 - 3/8-16X7/16	3-1/4	65138
3/8-16X1-5/8 - 3/8-16X7/16	3-5/16	65139
3/8-24X1 - 3/8-16X3/4	3-3/4	65140
3/8-16X2 - 3/8-16X3/4	4	65141
3/8-24X1-7/8 - 3/8-16X1/2	4	65142

7/16 STUDS

DESCRIPTION	OAL	PART NUMBER
7/16-20X3/4 - 7/16-14X1/2	1-1/2	65143
7/16-14X13/16 - 7/16-14X3/4	1-3/4	65144
7/16-20X3/4 - 7/16-14X9/16	1-3/4	65145
7/16-20X7/8 - 7/16-14X3/4	2	65146
7/16-14X15/16 - 7/16-14X3/4	2	65147
7/16-20X15/16 - 1/2-13X3/4	2	65148

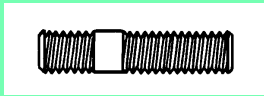
PACKAGE ON ALL IS 10



TAPES & WIRE

GENERAL PURPOSE CON'T

7/16 STUDS (CON'T)



DESCRIPTION	OAL	PART NUMBER
7/16-20X3/4 – 7/16-14X3/4	2-1/4	65149
7/16-20X7/8 - 9/16-12X7/8	2-1/2	65151
7/16-20X7/8 – 9/16-12X3/4	2-1/2	65152
7/16-14X1-1/4 – 7/16-14X3/4	2-1/2	65153
7/16-20X1-3/8 – 7/16-14X3/4	2-1/2	65154
7/16-20X1-13/16 – 7/16-14X3/4	3	65155

1/2 STUDS

DESCRIPTION	OAL	PART NUMBER
1/2-20X5/8 – 1/2-13X9/16	1-1/2	65158
1/2-20X3/4 – 1/2-13X3/4	1-7/8	65159
1/2-20X5/16 – 1/2-13X5/8	2	65160
1/2-20X1-1/8 – 1/2-13X3/4	2-1/4	65161
1/2-20X7/8 - 9/16-12X7/8	2-3/8	65162
1/2-20X1 – 1/2-13X3/4	2-1/2	65163
1/2-20X2 – 1/2-13X3/4	3	65164
1/2-20X1-1/4 – 1/2-13X3/4	3-3/4	65165

9/16 STUDS

DESCRIPTION	OAL	PART NUMBER
9/16-18X1 – 9/16-12X3/4	2-1/2	65166
9/16-18X1-1/4 – 9/16-12X1	3	65167

5/8 STUDS

DESCRIPTION	OAL	PART NUMBER
5/8-18X1 – 5/8-11X3/4	2-1/2	65168
5/8-11X1 1/2 - 5/8-11X13/16	2-5/8	65169
5/8-18X1 1/4 - 5/8-11X1	3	65170
5/8-18X1 1/2 - 5/8-11X1 1/4	3-1/2	65171
5/8-18X1 3/4 - 5/8-11X1 1/2	4	65172

3/4 STUDS

DESCRIPTION	OAL	PART NUMBER
3/4-10X1 9/16 – 3/4-10X1 1/16	2-3/16	65173

PACKAGE ON ALL IS 1



TAPES & WIRE

TAPES & WIRE

DUCT TAPE

DESCRIPTION	PART NUMBER
2" X 60 YARDS	70200
CAMO 2" X 25 YARDS	702001



GLASS STRAPPING TAPE

DESCRIPTION	PART NUMBER
1" X 60 YARDS	70201

CLEAR PACKAGE SEALING TAPE

DESCRIPTION	PART NUMBER
2" X 55 YARDS	70204



PIPE THREAD SEALING TEFLON

DESCRIPTION	PART NUMBER
1/2" X 520 INCHES	70203
3/4" X 520 INCHES	702030



MECHANICS WIRE BLACK ANNEALED WIRE FOR EASY BENDING

GAUGE	PART NUMBER
16	70360
18	70361



PACKAGE ON ALL IS 1

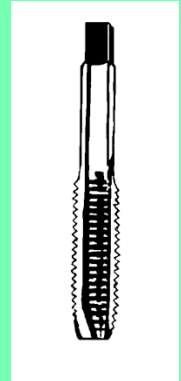


TAPS

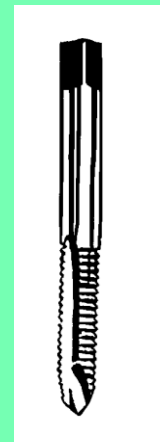
TAPS

MAGNUM SUPER PREMIUM

COARSE THREADS	STRAIGHT FLUTE PLUG TAP	SPIRAL POINT PLUG TAP
2-56	75100	75000
3-48	75102	75002
4-40	75104	75004
5-40	75107	75007
6-32	75109	75009
8-32	75111	75011
10-24	75113	75013
12-24	75115	75015
1/4-20	75117	75017
5/16-18	75119	75019
3/8-16	75121	75021
7/16-14	75123	75023
1/2-13	75125	75025
9/16-12	75127	
5/8-11	75129	75029
3/4-10	75131	75031
7/8-9	75133	
1-8	75135	



FINE THREAD	STRAIGHT FLUTE PLUG TAP	SPIRAL POINTED PLUG TAP
2-64		75001
3-56		75003
4-48		75005
5-44		75008
6-40	75110	75010
8-36	75112	75012
10-32	75114	75014
12-28	75116	75016
1/4-28	75118	75018
5/16-24	75120	75020
3/8-24	75122	75022
7/16-20	75124	75024
1/2-20	75126	75026
9/16-18	75128	
5/8-18	75130	75030
3/4-16	75132	75032
7/8-14	75134	
1-12	75136	



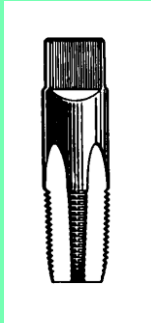
ADD B TO THE STRAIGHT FLUTE NUMBER FOR BOTTOM TAP
 ADD T TO THE STRAIGHT FLUTE NUMBER FOR TAPER TAP
 PACKAGE IS 1



TAPS

TAPS CON'T

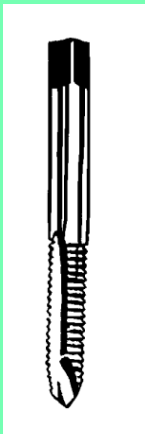
SUPER PREMIUM TAPER PIPE TAPS



SIZE	PART NUMBER
1/8-27 SM. SHANK	75150
1/8-27	75151
1/4-18	75152
3/8-18	75153
1/2-14	75154
3/4-14	75155
1-11 1/2	75156
1 1/4-11 1/2	75157
1 1/2-11 1/2	75158
2"-11 1/2	75159

METRIC SUPER PREMIUM

SPIRAL POINT PLUG TAP



SIZE	PART NUMBER
M2.5-0.45	75050
M3.0-0.50	75051
M3.5-0.60	75052
M4.0-0.70	75053
M5.0-0.80	75054
M6.0-1.00	75055
M8.0-1.25	75056
M10.0-1.50	75057
M12.0-1.75	75058
M14.0-2.00	75059
M16.0-2.00	75060
M18.0-2.50	75061

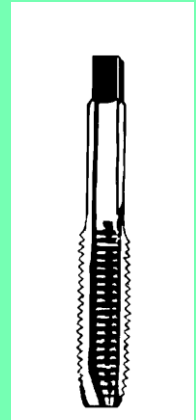


TAPS

TAPS CON'T

PLUG TAP HI CARBON STEEL

SIZE	PART NUMBER
M3 X 0.50	75170
M4 X 0.70	75171
M5 X 0.80	75172
M6 X 1.00	75173
M7 X 1.00	75174
M8 X 1.25	75175
M8 X 1.00	75176
M10 X 1.50	75177
M10 X 1.25	75178
M10 X 1.00	75179
M11 X 1.50	75180
M12 X 1.75	75181
M12 X 1.5	75182
M12 X 1.25	75183
M14 X 2.00	75184
M14 X 1.25	75185
M14 X 1.50	75186
M16 X 2.00	75187
M16 X 1.50	75188
M18 X 2.50	75189
M18 X 1.50	75190



METRIC SPIRAL POINT TAPS-PLUG STYLE

SIZE	FLUTES	PART NUMBER
M3 X .50	2	79860
M3.5 X .60	2	79861
M4 X .70	2	79862
M4 X .75	2	79863
M5 X .50	2	79864
M5 X .80	2	79865
M6 X .75	2	79866
M6 X .80	2	79867
M6 X 1.00	2	79868
M7 X 1.00	2	79869
M8 X 1.00	2	79870
M8 X 1.25	2	79871
M9 X 1.25	2	79872
M10 X 1.00	3	79873
M10 X 1.25	3	79874
M10 X 1.50	3	79875
M11 X 1.50	3	79876
M12 X 1.50	3	79877
M12 X 1.75	3	79878
M14 X 1.25	3	79879
M14 X 2.00	3	79880
M16 X 1.00	3	79881
M16 X 2.00	3	79882
M18 X 2.50	3	79883

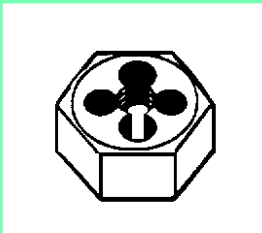
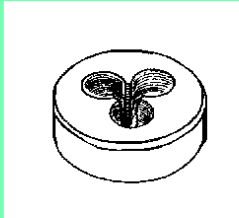
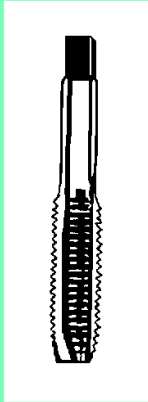
PACKAGE ON ALL IS 1



TAPS

TAPS & DIES

CARBON STEEL



THREAD	HAND TAP NUMBER	ROUND DIE NUMBER	HEX DIE NUMBER	DIE STOCK NUMBER
6-32	79760	79903	79953	1 INCH
8-32	79762	79905	79955	ROUND
10-24	79764	79906	79956	79930
10-32	79765	79907	79957	1 INCH
12-24	79766	79908	79958	HEX
1/4-20	79768	79920	79960	79980
1/4-28	79769	79925	79961	1-1/2 INCH
5/16-18	79770	79921	79962	ROUND
5/16-24	79771	79926	79963	79939
3/8-16	79772	79922	79964	2 INCH
3/8-24	79773	79927	79965	ROUND
7/16-14	79774	79923	79966	79947
7/16-20	79775	79928	79967	
1/2-13	79776	79924	79968	
1/2-20	79777	79929	79969	
9/16-12	79778	79931	79970	
9/16-18	79779	79934	79971	
5/8-11	79780	79932	79972	
5/8-18	79781	79935	79973	
3/4-10	79782	79933	79974	
3/4-16	79783	79936	79975	
7/8-9	79784	79941		
7/8-14	79785	79943		
1-8	79786	79942		
1-14	79787	79945		

**ADD B FOR BOTTOM AND T FOR TAPER TAP TO ITEM NUMBER,
AS IN 79776B FOR A 1/2-13 BOTTOM TAP**

**THE PLUG STYLE IS THE MOST COMMONLY USED TAP
3 TO 5 THREADS CHAMFERED.**

**THE TAPER STYLE FOR EASIER STARTING IN TOUGH MATERIALS
8 TO 10 THREADS CHAMFERED.**

**THE BOTTOMING STYLE FOR TAPPING TO BOTTOM OF HOLE
1 TO 1-1/2 THREADS CHAMFERED.**

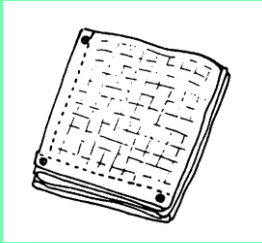


TARPS & TIE DOWNS

TARPS & TIE DOWNS

SILVER TARPS

CONSTRUCTED OF A 3 LAYER, SPECIALLY-REINFORCED, LAMINATED, HIGH-DENSITY POLYETHYLENE FABRIC. WATER, ROT, AND MILDEW RESISTANT. REINFORCED CORNERS. RUST PROOF ALUMINUM GROMMETS ON EACH CORNER

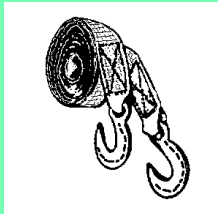


DESCRIPTION	PART NUMBER
4FT X 6FT	MIT6270
6FT X 8FT	MIT6290
8FT X 10FT	MIT6295
9FT X 12FT	MIT6300
10FT X 12FT	MIT6315
10FT X 20FT	MIT6325
12FT X 16FT	MIT6330
12FT X 20FT	MIT6335
18FT X 24FT	MIT6360
20FT X 20FT	MIT6375
20FT X 40FT	MIT6385
26FT X 40FT	MIT6395
30FT X 50FT	MIT6410
30FT X 60FT	MIT6415
40FT X 60FT	MIT6425



HEAVY DUTY TIE DOWN STRAPS WITH S-HOOKS

SIZE	PART NUMBER
15 INCHES	64900
21 INCHES	64901
31 INCHES	64902



15,000# TOW STRAP

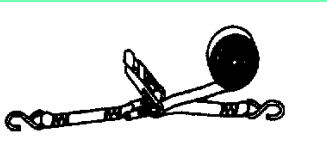
SUPER STRONG NYLON WEB STRAP. HEAVY DUTY DROP FORGED, HEAT TREATED STEEL SAFETY HOOKS

SIZE	PART NUMBER
2-1/4" X 20 FOOT	MIT6015

RATCHET TIE DOWN

WEATHER RESISTANT NYLON WEBBING FOR MAXIMUM STRENGTH
STEEL RACHET-ACTION LEVER EASILY TIGHTENS, LOCKS AND RELEASES AUTOMATICALLY

SIZE	PART NUMBER
1 INCH X 15 FOOT	MIT6221
2 INCH X 22 FOOT	MIT6224



RATCHET LOAD BINDER

SIZE	PART NUMBER
5/16 TO 3/8 CHAIN	MIT5536





TERMINALS & CONNECTORS

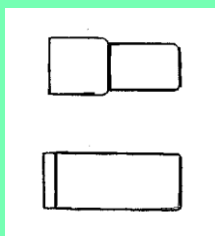
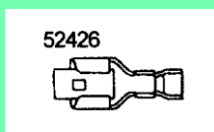
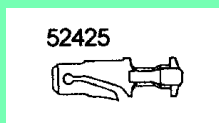
TERMINALS & CONNECTORS

PLASTIC COATED BATTERY/STARTER CABLE



GAUGE	PART NUMBER		UNIT OF SALE
	BLACK	RED	
8	532791	532793	1 FOOT
6	532801	532803	ALL
4	532811	532813	ITEMS
2	532821	532823	1 FOOT
1	532831	532833	ALL
1/0	532841	532843	ITEMS
2/0	532851	532853	1 FOOT
3/0	532861	532863	ALL
4/0	532871	532873	ITEMS

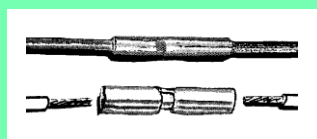
WE KEEP THIS PRODUCT IN 25 FT ROLLS



PART NUMBER	DESCRIPTION	PACK
52425	NON-INSULATED MALE TAB	50
52426	NON-INSULATED FEMALE TAB	50
52427	PLASTIC HOUSING, FEMALE	25
52428	PLASTIC HOUSING, MALE	25

BUTT CONNECTORS

SOLDER RING INSIDE OF HEAT SHRINK TUBE



PART NUMBER	SIZE	PACK
41519	18-22 GA.	25
42519	14-16 GA.	
43519	10-12 GA.	

SIZE OF SHRINK TUBE TO ORDER FOR VARIOUS SIZE WIRE

SIZE INSIDE DIAMETER	USE ON THIS ASSEMBLY
1/8	SOLDER CONNECTIONS 18 GA. AND SMALLER
3/16	SOLDER CONNECTIONS 14-16 GA.
1/4	SOLDER CONNECTIONS UP TO 8 GA. CRIMPED CONNECTORS UP TO 10 GA. BARE
3/8	8 GA. SOLDER CONNECTIONS UP TO 10 GA. CRIMPED & INSULATED
1/2	4-6 GA. SOLDER OR CRIMP, BARE
3/4	1 GA. TO 2/0 BATTERY TERMINALS
1	3/0 AND 4/0 BATTERY TERMINALS

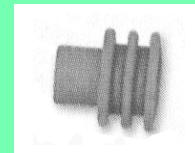


TERMINALS & CONNECTORS

TERMINALS & CONNECTORS CON'T

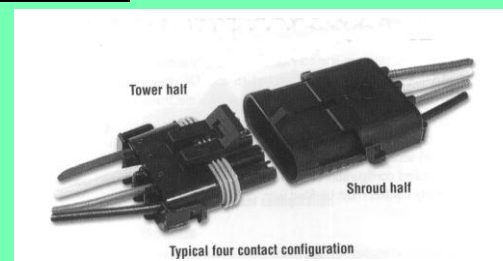
PACKARD CABLE SEALS

COLOR	PART NUMBER	PACKAGE
GREEN	W39000	100
GRAY	W39001	100
BLUE	W39002	100
RED	W39004	100



WEATHER-PACK TERMINALS

DESCRIPTION	PART NUMBER	PACKAGE
20-18GA MALE	W30034	100
16-14GA MALE	W31034	100
12-10GA MALE	W32038	100
20-18GA FEMALE	W30035	100
16-14GA FEMALE	W31035	100
12-10GA FEMALE	W32039	100



CONNECTOR BODIES

CONTACT	TOWER HALF PART NUMBER	SHROUD HALF PART NUMBER
1	W38041	W38040
2	W38043	W38042
3	W38045	W38044
4	W38047	W38046
6	W38049	W38048

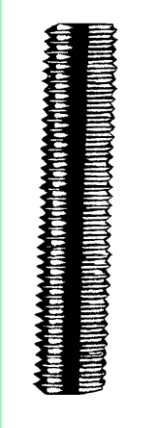
PACKAGE IS 1



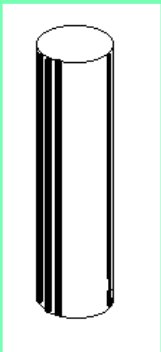
THREADED ROD & ROUND STOCK

THREADED ROD & ROUND STOCK

LOW CARBON STEEL ZINC PLATED



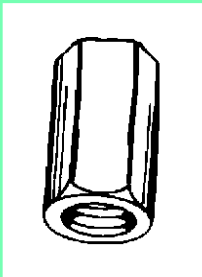
COARSE THREAD		FINE THREAD		UN-THREADED ROUNDS	
SIZE	PART NUMBER	SIZE	PART NUMBER	SIZE	PART NUMBER
6 - 32	60497				
8 - 32	60498				
10 - 24	60500	10 - 32	60499	3/16	60483
1/4 - 20	60501	1/4 - 28	60515	1/4	60484
5/16 - 18	60502	5/16 - 24	60516	5/16	60485
3/8 - 16	60503	3/8 - 24	60517	3/8	60486
7/16 - 14	60504	7/16 - 20	60518	7/16	60487
1/2 - 13	60505	1/2 - 20	60519	1/2	60488
5/8 - 11	60506	5/8 - 18	60520	5/8	60489
3/4 - 10	60507	3/4 - 16	60521	3/4	60490
7/8 - 9	60508	7/8 - 14	60522	7/8	60491
1 - 8	60509	1 - 14	60523	1	60492
1 1/8 - 7	60510				
1 1/4 - 7	60511				
1 1/2 - 6	60513				



THREADED RODS AND UNTHREADED ROUNDS ARE PACKED 1 PER CARTON, BUT THERE IS A MINIMUM ORDER OF 5 PIECES. THAT IS ANY COMBINATION OF FIVE RODS WILL MAKE THE MINIMUM.

ROD COUPLING NUTS

SIZE	COARSE PART NUMBER	LENGTH X W AF	FINE PART NUMBER	LENGTH X W.A.F.	PACK
10 - 24	60570	3/4 X 5/16			
1/4 - 20	60571	1 3/4 X 5/16	60531	7/8 X 3/8	10
5/16 - 18	60572	1 3/4 X 1/2	60532	7/8 X 7/16	
3/8 - 16	60573	1 3/4 X 5/8	60533	1 1/8 X 1/2	
7/16 - 14	60574	1 3/4 X 5/8	60534	1 1/4 X 9/16	10
1/2 - 13	60575	1 3/4 X 11/16	60535	1 1/4 X 5/8	
5/8 - 11	60576	2 1/8 X 13/16	60536	2 1/8 X 13/16	
3/4 - 10	60577	2 1/4 X 1	60537	2 1/4 X 1	1
7/8 - 9	60578	2 1/2 X 1 1/4			
1 - 8	60579	2 3/4 X 1 3/8			
1 1/8 - 7	60580	3 X 1 5/8			1
1 1/4 - 7	60581	3 1/4 X 1 3/4			





THREADED ROD & ROUND STOCK

STAINLESS AND ALLOY STEEL

DIAMETER	DIAMETER	304 STAINLESS STEEL	ASTM A193 GRADE B7 ALLOY STEEL PLAIN		
COARSE THREAD	FINE THREAD	3 FOOT LENGTHS	COARSE THREAD 3 FOOT LENGTHS	FINE THREAD 3 FOOT LENGTHS	COARSE THREAD 12 FOOT LENGTHS
1/4 - 20 5/16 - 18 3/8 - 16	1/4-28 5/16-24	60449 60450 60451	60459 60460 60461	60480 60481	6045912 6046012 6046112
7/16 - 14 1/2 - 13 9/16 - 12	7/16-20 1/2-20	60452 60453	60462 60463 60464	60482 604821	6046212 6046312 6046412
5/8 - 11 3/4 - 10 7/8 - 9	5/8-18	60454 60455 60456	60465 60466 60467	604823	6046512 6046612 6046712
1 - 8 1 1/8 - 7 1 1/4 - 7		60457 60458	60468 60469 60470		6046812 6046912 6047012
1 1/2-6			60471		

STAINLESS AND ALLOY RODS ARE UNPLATED. PACKAGE IS 1 PIECE
BUT THERE IS A MINIMUM SALE OF 5 PIECES ON THE 3 FOOT
SIZES WHICH CAN BE COMBINED WITH ALL OTHER SIZES
AND TYPES OF THREADED RODS.

TENSILE STRENGTH ON ALLOY STEEL IS 125,000 PSI

METRIC THREADED ROD

1 METER IN LENGTH

SIZE	STAINLESS	ZINC PLATED	B-7, ALLOY
M 5 X .80	60560	60550	
M 6 X 1.00	60561	60551	
M 8 X 1.25	60562	60552	605672
M 10 X 1.5	60563	60553	605673
M 12 X 1.75	60564	60554	605674
M 14 X 2.00	60565	60555	605675
M 16 X 2.00	60566	60556	605676
M18 X 2.50		605561	
M20 X 2.50	60567	60557	605678
M24 X 3.00		60559	605680

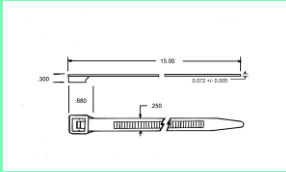


TOOLS

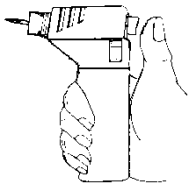
TOOLS

WIRE TIE ASSORTMENTS

PART NUMBER	DESCRIPTION	PACKAGE
52451	NATURAL ASSORTMENT 50 EA. OF 4", 8", 14"	1
52455	BLACK ASSORTMENT 50 EA. OF 4", 8", 14"	1



NYLON TIE TENSIONING AND CUTTING TOOL 52460



MICRO TORCH

52656

SMALL REFILLABLE BUTANE TORCH FOR HEAT SHRINK AND SOLDER CONNECTORS. MUCH EASIER TO USE THAN MATCHES AND CIGARETTE LIGHTERS.

HEAVY DUTY AC POWERED HEAT GUN 52461



CRIMPING TOOL

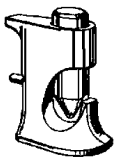
52652

FOR UNINSULATED AND INSULATED TERMINALS IN WIRE RANGE 22 TO 10 GAUGE.

BATTERY CRIMPING TOOL

52653

FOR 8 TO 3/0 GAUGE WIRE.



BATTERY TERMINAL AND POST CLEANER

52655



TOOLS

ECONOMY PAINT CHIP & APPLICATOR BRUSH

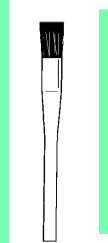
SIZE	PART NUMBER	PACKAGE
1 INCH	CF70440	36
1-1/2 INCH	CF70450	36
2 INCH	CF70460	24



UTILITY BRUSH

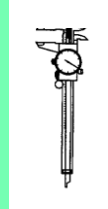
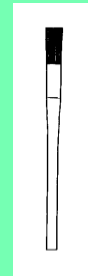
3 X 7 SOLID CURVED HARDWOOD HANDLE

PART NUMBER	DESCRIPTION	PACKAGE
CF73830	STAINLESS ST.	12
CF73832	BRASS	12



FLUX AND ADHESIVE BRUSHES

SIZE	PART NUMBER
1/4"	CF70210
3/8"	CF70220



6" DIAL AND DIGITAL CALIPER

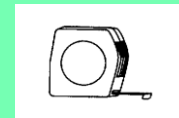
ADJUSTABLE DIAL WHICH READS 0-6" IN 0.001" GRADUATIONS. SLIDE LOCK HOLDS READINGS. INTERNAL,EXTERNAL, STEP AND DEPTH MEASUREMENTS

PART NUMBER MIT7165

MEASURING TAPE

1" X 25'

PART NUMBER 72201



1/4 AIR DIE GRINDER

LEVER THROTTLE FOR PRECISION CONTROL. BALL BEARING MOTOR. INCLUDES 2 PC CHUCK WRENCHES

PART NUMBER MIT4255



3/8 REVERSIBLE AIR DRILL

WORKING AIR PRESSURE 90 PSI. COMFORTABLE PISTOL GRIP DESIGN. COMPLETE WITH JACOBS CHUCK & KEY

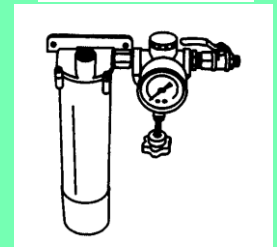
PART NUMBER MIT4421

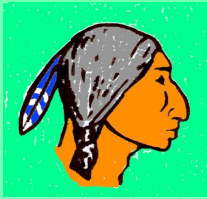


SMALL AIR CONTROL UNIT

COMPLETE AIR REGULATION AND FILTRATION IN ONE SYSTEM. CONTROLS AIR PRESSURE AND PROVIDES A SMOOTH, CONSISTENT TOOL PERFORMANCE

PART NUMBER MIT4585





TOOLS

8 PIECE UNIVERSAL SOCKET SETS

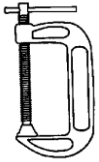
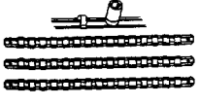
DROP FORGED CARBON STEEL. HEAT TREATED
AND CHROME PLATED



DESCRIPTION	PART NUMBER
3/8 DRIVE U-JOINT 3/8,7/16,1/2,9/16,5/8,11/16,3/4	MIT1305
METRIC M9,M10,M11,M13,M15,M17,M19	MIT1310

3 PIECE SOCKET HOLDER SET

FITS ALL 1/4,3/8,1/2 DRIVE SOCKETS
PART NUMBER MIT1885

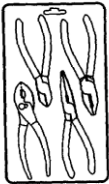


HEAVY DUTY "C" CLAMPS

DESCRIPTION	PART NUMBER
1" X 3/4"	MIT4009
4" X 2-1/4"	MIT4017
5"	MIT4022
6" X 2-3/4"	MIT4027
8" X 3-3/8"	MIT4031
10" X 3-3/4"	MIT4035
12"	MIT4040

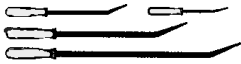
4 PIECE SNAP-N-STACK PLIER SET

DROP FORGED HEAT TREATED STEEL
SLIP JOINT,DIAGONAL CUTTING,LONG NOSE, LINESMAN
PART NUMBER MIT1874



4 PIECE PRY BAR SET

DROP FORGED HEAT TREATED STEEL
8",12",18",24"
PART NUMBER MIT3352



SLIP JOINT PLIERS

SIZE	PART NUMBER
6 INCH	72210
8 INCH	72212



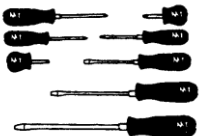
4 PIECE GROOVE JOINT PLIER SET

DROP FORGED HEAT TREATED
CONTOURED BLACK MATTED PVC DIPPED HANDLES
PART NUMBER MIT3583



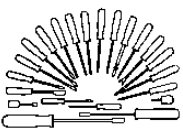
8 PIECE MECHANIC'S SCREWDRIVER SET

FLAT SIZES: 3/16X3,1/4X4,5/16X6,3/8X8,1/4X1-1/2
PHILLIPS: #2X4,#2X1-1/2,#1X3
PART NUMBER MIT2757



22PC. SCREWDRIVER SET-HIGH VISIBILITY

10PC. FLAT 1/8 THRU 3/8, 5PC. STAR DRIVE 10 THRU 30,
5PC. PHILLIPS #0 THRU#3, 1PC. SCRATCH AWL, 1PC. TACK PULLER
PART NUMBER MIT2759





TOOLS

7-1/2"DIAGONAL CUTTING PLIERS

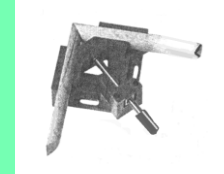
DROP FORGED HEAT TREATED STEEL
BLACK MATTED PVC DIPPED HANDLES

PART NUMBER MIT3531



ALUMINUM CORNER CLAMP

PART NUMBER 71205



7 PC SLOTTED/PHILLIPS SCREWDRIVER SET

M2.5X50,M2.5X100,M3.0X100,M3.0X150,M4.0X100,M4.0X150

PART NUMBER W26092



7PC SLOTTED/PHILLIPS SCREWDRIVER SET

M1.5X40,M2.0X50,M2.5X50,M3.0X60,PH#00X40MM,

PH#0X50MM,PH#1X60MM, CHIP LIFTER

PART NUMBER W26190

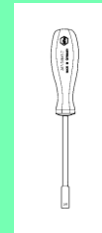
11PC SLT/PHL/POZ/HEX/TORX SET IN CASE

PART NUMBER W28294

7PC NUT DRIVER INCH SIZES

3/16,1/4,5/16,11/32,3/8,7/16,1/2

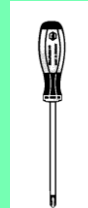
PART NUMBER W34193



5PC HEAVY DUTY MICROFINISH SLOTTED/PHILLIPS SET

M5.5X100,M6.5X125,M8.0X150,PH#1X80MM,PH#2X100MM

PART NUMBER W53390



MAGNETIZER/DEMAGNETIZER

2.1" X 2.0" X 1.1"

PART NUMBER W40010



FIRST AID KIT

OSHA APPROVED, 24 UNIT, HEAVY METAL CABINET

CONTAINS: SCISSORS,TWEEZERS,COLD PACK,

COTTON, GAUZE, TAPE, BANDAGES, ANTISEPTICS,

OINTMENTS, TABLETS FOR PAIN RELIEF

PART NUMBER PPFK24



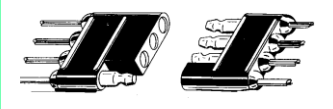


TRAILER CONNECTORS

TRAILER CONNECTORS

MOULDED

4 WAY FLAT



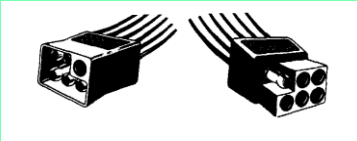
DESCRIPTION	PART NUMBER
3 FEMALE- 1 MALE 48" LEAD	52297
3 MALE-1 FEMALE 12" LEAD	52298

4 WAY SQUARE



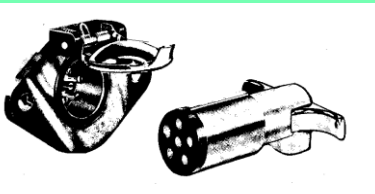
DESCRIPTION	PART NUMBER
3 FEMALE- 1 MALE 48" LEAD	52299
3MALE- 1 FEMALE 12" LEAD	52400

6 WAY RECTANGULAR



DESCRIPTION	PART NUMBER
MALE & FEMALE CONNECTED	52401

BERG TRAILER CONNECTORS



6 WAY		7 WAY	
DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER
FEMALE	52437	FEMALE	52438
MALE	52439	MALE	52440

THE OUTSIDE DIAMETER OF PVC COATED PRIMARY WIRE IS AS FOLLOWS FOR THE VARIOUS GAUGES

GAUGE	1000/IN	APPROXIMATE FRACTION	SHRINK TUBE SIZE
20	.085	3/32	3/32
18	.095	7/64	1/8
16	.104	7/64	1/8
14	.121	1/8	3/16
12	.144	9/64	3/16
10	.175	3/16	1/4
8	.214	7/32	1/4
5	.350	23/64	3/8
4	.350	23/64	3/8
2	.450	29/64	1/2
1	.475	31/64	1/2
0	.518	33/64	3/4
2/0	.565	9/16	3/4
3/0	.650	21/32	3/4



TUBING

TUBING

PLASTIC TUBE (PVC) CLEAR

O.D.	WORKING PRESSURE	BURST PRESSURE	PART NUMBER
1/4	65	195	63380
5/16	55	165	63381
3/8	55	165	63382
1/2	45	135	63383
5/8	30	90	63384
3/4	40	120	63385
1	35	105	63386

SOFT, PLIABLE, LOW PRESSURE TUBING. RESISTANT TO ALCOHOL, ANTI-FREEZE, BRINE, AMMONIUM HYDROXIDE, HYDROGEN PEROXIDE. USE INSERTS AND STANDARD COMPRESSION FITTINGS OR HOSE BARBS.

STANDARD PACKAGE IS 100 FT. ALL SIZES CAN BE CUT TO LENGTH.

SEMI RIDGED NYLON

CLOSE TOLERANCE. 100% VIRGIN MATERIAL. LIGHT (9 TIMES LESS DENSE THAN COPPER) LARGE RANGE OF WORKING TEMPERATURES. GOOD HUMIDITY RESISTANCE. WITHSTANDS SALT WATER. AGES WELL. GOOD ABRASION RESISTANCE. GOOD PRESSURE RETENTION. LOW FROTHING OF ALL FLUIDS. CONSISTENT RIGIDITY. USEFUL FOR AIR CONDITIONING, COOLANTS, GASES, LUBRICATION LINES, PNEUMATICS, REFRIGERATION CHEMICAL TRANSFER, FRESH AND SALT WATER, LOW PRESSURE HYDRAULICS. USED IN AGRICULTURE AND FOOD PROCESSING. WORKING PRESSURE 333 PSI. BURST PRESSURE 1000 PSI. USE COMPRESSION FITTINGS.

POLYURETHANE

SMALL BENDING IN AMBIENT TEMPERATURES. AGES WELL. LIGHT (9 TIMES LESS DENSE THAN COPPER) CAN BE USED IN A WIDE RANGE OF TEMPERATURES. GOOD HUMIDITY RESISTANCE. WITHSTANDS SALT WATER. AGES WELL. RESPONDS WELL IN COLD CONDITIONS. RESISTANT TO FUELS AND OILS. GOOD SHAPE RETENTION. EXCELLENT TEAR RESISTANCE. GOOD SHOCK ABSORPTION. HIGH COMPRESSION STRENGTH. LOW COMPRESSION SET. FLEXIBLE AND KINK RESISTANT. MINIMUM BURST PRESSURE 400 PSI. ULTIMATE TENSILE STRENGTH 5500 PSI.



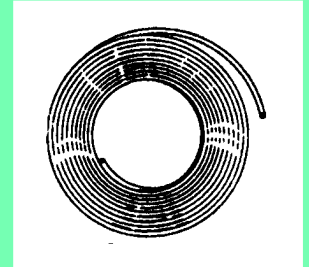
TUBING

SEMI-RIDGED NYLON

NATURAL

O. D.	MFG. NUMBER	PART NUMBER
5/32*	1094P04-00	63369
1/8	1094P53-00	63370
3/16	1094P55-00	63371
1/4	1094P56-00	63372
5/16	1094P58-00	63373
3/8	1094P60-00	63374
1/2	1094P62-00	63375

*5/32 IS THE SAME SIZE AS 4MM



CLEAR POLYURETHANE TUBING

O. D.	MFG. NUMBER	PART NUMBER
1/8	1094U53-00	63392
5/32*	1094U54-00	63393
3/16	1094U55-00	63394
1/4	1094U56-00	63395
5/16	1094U58-00	63396
3/8	1094U60-00	63397
1/2	1094U62-00	63398

*5/32 IS THE SAME SIZE AS 4MM

ADD 1 DIGIT TO THE PART NUMBER TO CHANGE COLOR
FOR THE NYLON OR THE POLYURETHANE TUBING USING
THE FOLLOWING:

- 1=BLACK
- 2=GREEN
- 3=RED
- 4=BLUE
- 5=YELLOW

EXAMPLE = 633691 IS BLACK 5/32 TUBE

POLYURETHANE TUBING METRIC

DESCRIPTION	PART NUMBER
M3 X 0.5	63389
M4 X 0.75	63390
M6 X 1	63391

STANDARD PACKAGE IS 100 FT. CAN BE CUT TO LENGTH



WASHERS

WASHERS

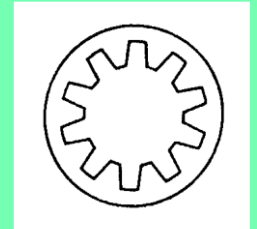
HI-COLLAR LOCK WASHERS

SIZE	PART NUMBER	PACKAGE
6	36402	100
8	36403	100
10	36404	100
1/4	36405	100
5/16	36406	100
3/8	36407	100
7/16	36408	100
1/2	36409	50
5/8	36410	50
3/4	36411	50
7/8	36412	25
1	36413	25
1-1/8	36414	10
1-1/4	36415	10



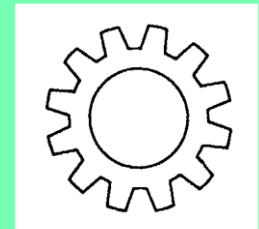
INTERNAL LOCK WASHERS

SIZE	PART NUMBER	PACKAGE
6	36017	100
8	36018	100
10	36019	100
12	36020	100
1/4	36021	100
5/16	36022	100
3/8	36023	100
7/16	36024	100
1/2	36025	100
9/16	36026	50
5/8	36027	50
3/4	36028	50
7/8	36029	25
1	36030	25



EXTERNAL LOCK WASHERS

SIZE	PART NUMBER	PACKAGE
6	36034	100
8	36035	100
10	36036	100
12	36037	100
1/4	36038	100
5/16	36039	100
3/8	36040	100
7/16	36041	100
1/2	36042	100
9/16	36043	50
5/8	36044	50
3/4	36045	50
7/8	36046	25
1	36047	25

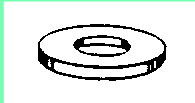




WASHERS

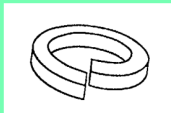
STAINLESS STEEL

FLAT WASHERS



SIZE	PART NUMBER	PACKAGE
4	37448	100
5	37449	100
6	37450	100
8	37451	100
10	37452	100
12	37453	100
1/4	37454	100
5/16	37455	100
3/8	37456	100
7/16	37457	100
1/2	37458	100
5/8	37459	50
3/4	37460	50
7/8	37461	25
1	37462	25
1-1/4	37463	25

SPLIT LOCK WASHERS



SIZE	PART NUMBER	PACKAGE
4	36463	100
6	36464	100
8	36465	100
10	36466	100
12	36467	100
1/4	36468	100
5/16	36469	100
3/8	36470	100
7/16	36471	100
1/2	36472	100
5/8	36473	50
3/4	36474	50
7/8	36475	25
1	36476	25

FINISHING WASHERS



SIZE	PART NUMBER	PACKAGE
4	37600	100
6	37601	100
8	37602	100
10	37603	100
12	37604	100
1/4	37605	100



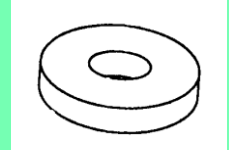
WASHERS

FLAT WASHERS

THRU-HARDENED HEAT TREATED STEEL
ZINC AND YELLOW DICHROMATE
FOR USE WITH GRADE 8 CAP SCREWS

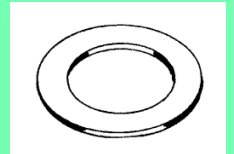
USS

SIZE	PART NUMBER	PACKAGE
1/4	37000	100
5/16	37001	100
3/8	37002	100
7/16	37003	100
1/2	37004	50
9/16	37005	50
5/8	37006	50
3/4	37007	50
7/8	37008	25
1	37009	25
1-1/8	37010	25
1-1/4	37011	25



SAE

SIZE	I.D.	O.D.	PART NUMBER	PACKAGE
1/4	9/32	5/8	37080	100
5/16	11/32	11/16	37081	100
3/8	13/32	13/16	37082	100
7/16	15/32	59/64	37083	100
1/2	17/32	1-1/16	37084	50
9/16	19/32	1-3/16	37085	50
5/8	21/32	1-5/16	37086	50
3/4	13/16	1-1/2	37087	50
7/8	15/16	1-3/4	37088	25
1	1-1/16	2	37089	25
1-1/8			370891	10
1-1/4			370892	10
1-3/8			370894	10
1-1/2			370893	10



BONDED SEALING WASHERS

STEEL ZINC W/NEOPRINE SEALER

SIZE	O.D.	PART NUMBER	PACKAGE
10	1/2	37380	100
12	15MM	37381	100
14	15MM	37382	100
1/2	1"	37386	100



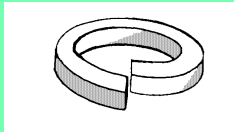


WASHERS

LOCK WASHERS

STEEL ZINC PLATED

FOR USE WITH GRADE 2 AND 5 CAP SCREW



SIZE	PART NUMBER	PACKAGE
#4	36100	100
#6	36101	250
#8	36102	250
#12	36000	250
3/16	36001	250
1/4	36002	250
5/16	36003	250
3/8	36004	250
7/16	36005	100
1/2	36006	100
9/16	36007	100
5/8	36008	100
3/4	36009	50
7/8	36010	25
1	36011	25
1-1/8	36012	10
1-1/4	36013	10
1-1/2	36014	10

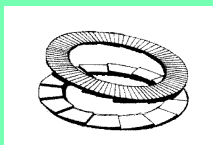
HIGH ALLOY ZINC AND GOLD DICHROMATE

SIZE	PART NUMBER	PACKAGE
1/4	36500	250
5/16	36501	250
3/8	36502	250
7/16	36503	100
1/2	36504	100
9/16	36505	100
5/8	36506	50
3/4	36507	50
7/8	36508	25
1	36509	25

HIGH ALLOY LOCK WASHERS ARE MADE FOR USE WITH GRADE 8 CAP SCREWS.
THE MECHANICAL PLATING DOES NOT CAUSE HYDROGEN EMBRITLEMENT

NORD LOCK VIBRATION PROOF LOCK WASHERS

SOLD IN PAIRS PACKAGE IS 1



SIZE	METRIC EQ	PART NUMBER
3/16	5	36110
1/4	6	36111
5/16	8	36112
3/8	10	36113
7/16	11	36114
1/2	12	36115
9/16	14	36116
5/8	16	36117
3/4	20	36118
1	25	36119

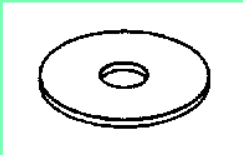


WASHERS

MACHINE BUSHINGS

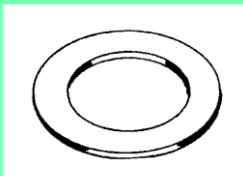
STEEL ZINC PLATED

WIDE RIM



I.D.	O.D.	PART NUMBER
5/8	1-1/4	37100
3/4	1-1/2	37101
7/8	1-3/4	37103
15/16	1-7/8	37104
1	2	37105
1-1/16	2-1/16	37106
1-1/8	2-1/8	37107
1-1/4	2-1/4	37109
1-3/8	2-1/2	37111
1-1/2	3	37113
1-5/8	3-1/8	37114
1-3/4	3-1/4	37115
1-7/8	3-3/8	37116
2	3-1/2	37117
2-1/8	3-5/8	37118
2-1/4	3-3/4	37119
2-1/2	3-7/8	37120
2-3/4	4	37124
3	4-1/4	37126

NARROW RIM



I.D.	O.D.	PART NUMBER
1/2	7/8	37130
9/16	15/16	37131
5/8	1	37132
3/4	1-1/4	37133
7/8	1-3/8	37134
1	1-1/2	37135
1-1/8	1-3/4	37136
1-1/4	1-7/8	37137
1-3/8	2-1/8	37138
1-1/2	2-1/4	37139
1-5/8	2-3/8	37140
1-3/4	2-1/2	37141
1-7/8	2-7/8	37142
2	3	37143
2-1/8	3-1/8	37144
2-1/4	3-1/4	37145
2-3/8	3-3/8	37146
2-1/2	3-1/2	37147

PACKAGE IS 25 ON ALL ABOVE

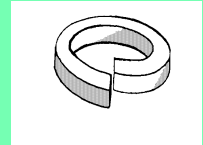


WASHERS

METRIC

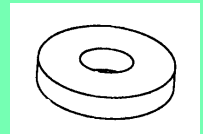
LOCK WASHERS DIN 7980 STEEL ZINC PLATED

MM SIZE	PART NUMBER	PACKAGE
4	36300	100
5	36301	100
6	36302	100
7	36315	100
8	36303	100
10	36304	50
12	36305	50
14	36306	50
16	36307	25
18	36308	25
20	36309	25
22	36310	25
24	36311	10
27	36312	10
30	36313	10



FLAT WASHERS DIN 125 STEEL ZINC PLATED

MM SIZE	PART NUMBER	PACKAGE
3	37299	100
4	37300	100
5	37301	100
6	37302	100
7	37303	100
8	37304	100
10	37305	50
12	37306	50
14	37307	50
16	37308	25
18	37309	25
20	37310	25
22	37311	25
24	37312	10
27	37313	10



CLASS 10 FLAT WASHERS

SIZE	PART NUMBER	PACKAGE
6	37321	100
8	37322	100
10	37323	50
12	37324	50
14	37325	50
16	37326	25
20	37327	25
24	37328	10

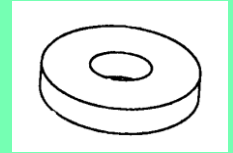


WASHERS

METRIC CON'T

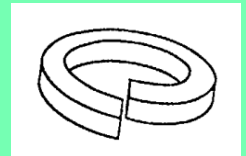
METRIC STAINLESS STEEL FLAT WASHERS

SIZE	PART NUMBER	PACKAGE
M4	37700	100
M5	37701	100
M6	37702	100
M8	37703	100
M10	37704	100
M12	37705	25
M14	37706	25
M16	37707	25
M20	37708	10
M24	37709	10



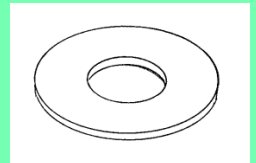
METRIC STAINLESS STEEL LOCK WASHERS

SIZE	PART NUMBER	PACKAGE
M4	36600	100
M5	36601	100
M6	36602	100
M8	36603	100
M10	36604	100
M12	36605	50
M14	36606	50
M16	36607	25
M20	36608	25
M24	36609	10



METRIC FENDER WASHER

I.D.	O.D.	PART NUMBER	PACKAGE
M6	18	37350	100
M8	24	37352	100
M10	30	37354	50
M12	36	37356	25

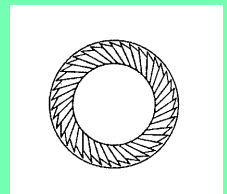


METRIC STAINLESS STEEL FENDER WASHERS

I.D.	O.D.	PART NUMBER	PACKAGE
M6	18	37360	100
M8	24	37361	100
M10	30	37362	50
M12	36	37363	25

METRIC RIBBED CONICAL LOCK WASHER

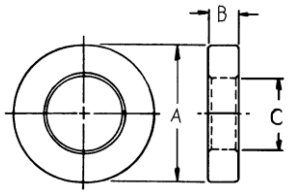
SIZE	PART NUMBER	PACKAGE
M3	36171	100
M4	36172	100
M5	36173	100
M6	36174	100
M8	36175	100
M10	36176	100
M12	36177	100





WASHERS

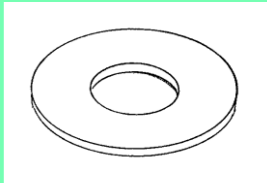
HEAVY DUTY MOLD WASHERS



NUMBER	BOLT SIZE: C	O. D. A	THICK B
37420	5/8	1.5	5/16
37421	3/4	1.5	5/16
37422	3/4	1.5	1/2
37427	1	2.5	1/2

FENDER WASHERS ZINC PLATED

18 GA. STEEL ZINC PLATED



I.D.	O.D.	PART NUMBER	PACKAGE
3/16	1	37090	100
1/4	1-1/4	37091	100
1/4	1-1/2	37092	100
5/16	1-1/4	37093	100
5/16	1-1/2	37094	100
3/8	1-1/2	37095	100
3/8	2	37096	100
1/2	2	37097	100

EXTRA THICK FENDER WASHERS

SIZE	PART NUMBER	PACKAGE
1/4 X 1-1/4 X 1/8	37091T	100
5/16 X 1-1/4 X 1/8	37093T	100
5/16 X 1-1/2 X 1/8	37094T	100
3/8 X 1-1/4 X 1/8	37095T	100
3/8 X 1-1/2 X 1/8	370951T	100
1/2 X 2 X 1/8	37097T	50

STAINLESS STEEL FENDER WASHERS

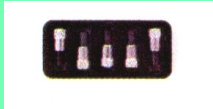
SIZE	PART NUMBER	PACKAGE
3/16 X 1	370900	100
1/4 X 1	370911	100
1/4 X 1-1/4	370910	100
5/16 X 1-1/4	370930	100
5/16 X 1-1/2	370931	100
3/8 X 1-1/4	370940	100
3/8 X 1-1/2	370950	100
1/2 X 2	370970	100



WELDING SUPPLIES

WELDING SUPPLIES

4OZ WIRE FEED PAD LUBRICANT
PART NUMBER 71094



5/CARD SINGLE FLINTS
PART NUMBER 71178



SPARK LIGHTER
PART NUMBER 71177



NOZZLE GEL
PART NUMBER 71176



1oz JB WELD
70056

ANTI SPATTER
PART NUMBER 71183



ARROW MAGNETIC WELD HOLDER
PART NUMBER MIT5217



SPRING HANDLE CHIP HAMMER
PART NUMBER 71175



TIP CLEANERS
#1 STANDARD PART NUMBER 711699
#2 MASTER PART NUMBER 71170



OXYGEN CYLINDER CAP
PART NUMBER 71190

ACETYLENE CYLINDER CAP
PART NUMBER 71191



WELDING SUPPLIES

WELDING HELMETS

PART NUMBER 71171 PART NUMBER 71172
FLIP FRONT STYLE AUTO DARKENING
711711 ECONOMY WELDING HELMET
711721 AUTO DARKENING 2X4 SHIELD



WELDERS SLEEVES

SOLD BY THE PAIR
PART NUMBER 71212 18"
PART NUMBER 71211 23"



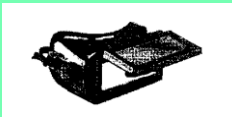
WELDING CARTS

6" WHEEL CYLINDER CART PART NUMBER 71173
#4-10 CYLINDER CART PART NUMBER 71174
LARGE TIRE CYLINDER CART 71179



WELDING GLOVES

PREMIUM GRADE FIRE RESISTANT REINFORCED THUMB
PART NUMBER 60861
GRAY PART NUMBER 60863



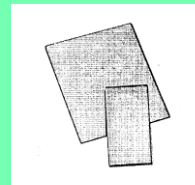
FLIP UP GOGGLES 2 X 4-1/4
PART NUMBER 71204

SAFETY CLEAR GOGGLES
PART NUMBER 71210



CLEAR LENS
PART NUMBER 71203 2 X 4-1/4
PART NUMBER 712032 4-1/2 X 5-1/2

AUTO DARKENING FILTER
PART NUMBER 71213



CUTTING HEADS AND HANDLES
712261 HEAVY DUTY CUTTING HEAD
71226 MEDIUM DUTY CUTTING HEAD
71230 HARRIS STYLE CUTTING TORCH
712262 HARRIS HD CUTTING HEAD
71227 TORCH HANDLE
71228 HEAVY DUTY TORCH HANDLE
71229 HARRIS TORCH HANDLE





WELDING SUPPLIES

MEDIUM DUTY OXYGEN REGULATOR

PART NUMBER 71180

PART NUMBER 711801 100# LO-PRESSURE

PART NUMBER 711804 4000# HI-PRESSURE



MEDIUM DUTY ACETYLENE REGULATOR

PART NUMBER 71181

PART NUMBER 711811 30# LO-PRESSURE

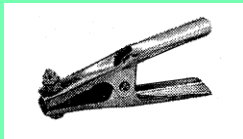
PART NUMBER 711812 600#LO-PRESSURE

PART NUMBER 711813 400#LO-PRESSURE



ELECTRODE HOLDER

DESCRIPTION	PART NUMBER
200 AMP	71219
250 AMP	71220
300 AMP	71221

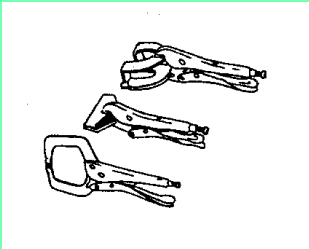


STEEL GROUND CLAMP

DESCRIPTION	PART NUMBER
200 AMP	71222
300 AMP	71223
500 AMP	71224

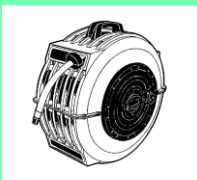
3 PIECE WELDING CLAMP SET

PART NUMBER MIT3861



TWIN WELDING HOSE

DESCRIPTION	PART NUMBER
1/4 X 25 FEET	71200
1/4 X 50 FEET	71201
1/4 X 100 FEET	71202

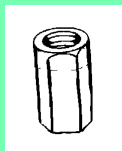


RETRACTABLE WELDING HOSE

PART NUMBER 62016

QUICK CONNECTION HOSE TO TORCH

PART NUMBER 712021



AC ADAPTER

PART NUMBER 71225



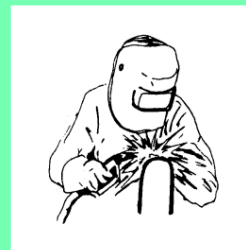
WELDING SUPPLIES

WELDING ROD

ALL STEELS TYPE 120

TENSILE STRENGTH UP TO 120,000 P.S.I. A SUPER STRENGTH CHROMIUM-NICKEL ALLOY ROD WITH A UNIQUE COATING THAT PRODUCES HOMOGENEOUS POROUS FREE MACHINABLE WELD DEPOSIT. FOR HIGH TENSILE JOINING OF ALL TYPES OF STEEL. NOT HEAT TREATABLE

DIAMETER	AMP SETTING	PART NUMBER
3/32	60-90	71000
1/8	85-120	71001
5/32	95-140	71002
3/16	130-190	71003



ALL STEELS HEAT TREATABLE TYPE 160

TENSILE STRENGTH UP TO 160,000 P.S.I. A CHROMIUM-NICKEL ALLOY THAT IS BOTH MACHINABLE AND HEAT TREATABLE. JOIN CRACKED TOOL DIES, FIXTURES AND OTHER PARTS THAT MAY OR MAY NOT REQUIRE HEAT TREATMENT

DIAMETER	AMP SETTING	PART NUMBER
3/32	60-90	71010
1/8	85-120	71011
5/32	95-140	71012
3/16	130-190	71013

CAST IRON MAINTENANCE TYPE 55

TENSILE STRENGTH UP TO 55,000 P.S.I. SPECIAL ALLOYED COATING MATERIALS AND FLUSHING AGENTS PRODUCE POROUS FREE WELD DEPOSITS THAT ARE MACHINABLE. BUILD UP SHY AREAS OR REPAIR CRACKS IN MOTOR HOUSINGS, GEARS, AND SPROCKETS

DIAMETER	AMP SETTING	PART NUMBER
3/32	60-90	71020
1/8	80-120	71021
5/32	90-150	71022
3/16	120-180	71023

ALL POSITION ELECTRODE TYPE 50

TENSILE STRENGTH UP TO 50,000 P.S.I. TYPE 50 IS AN ALL POSITION ELECTRODE FOR WELDING CAST IRON WITH MINIMUM AMOUNT OF HEAT INPUT. MACHINABLE

DIAMETER	AMP SETTING	PART NUMBER
3/32	30-70	71030
1/8	50-100	71031
5/32	75-125	71032
3/16	90-160	71033

ALL PACKAGES ABOVE ARE 10LB TUBES OR 40LB CARTONS



WELDING SUPPLIES

WELDING ROD CON'T MILD STEEL COVERED ELECTRODES

DIAMETER	PART NUMBER
TYPE 6011	
3/32	71040
1/8	71041
5/32	71042
TYPE 6013	
3/32	71043
1/8	71044
5/32	71045
TYPE 7014	
3/32	71046
1/8	71047
5/32	71048

LOW HYDROGEN MILD STEEL COVERED ELECTRODES

TYPE 7018	
DIAMETER	PART NUMBER
3/32	71049
1/8	71050
5/32	71051

LINCOLN WELDING ROD

GENERAL PURPOSE ELECTRODES MOST CAN BE USED FOR ALL POSITION WORK

TYPE 6011 FLEETWOOD 35	
DIAMETER	PART NUMBER
3/32	71103
1/8	71104
5/32	71105
TYPE 6013 FLEETWOOD 37	
3/32	71106
1/8	71107
5/32	71108
TYPE 7014 FLEETWOOD 47	
3/32	71109
1/8	71110
5/32	71111

ALL PACKAGES ARE 50 LB CARTONS

BRAZING ROD FLUX COATED

LOW FUMING 36 INCH

DIAMETER	PART NUMBER
3/32	71100
1/8	71101
5/32	71102

SOLD BY THE POUND MINIMUM PKG IS 1 LB

DIAMETER	PART NUMBER
3/32	711000
1/8	711010
5/32	711020

SOLD BY THE PIECE

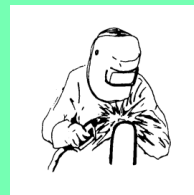
3/32 MINIMUM PACK IS 12 1/8 MINIMUM PACK IS 7 5/32 MINIMUM PACK IS 5



WELDING SUPPLIES

RG 45 MILD STEEL WELDING ROD

DESCRIPTION	PART NUMBER
1/16 X 36 1#	71145
3/32 X 36 1#	71146
1/8 X 36 1#	71147
3/16 X 36 1#	71148



700 SERIES HARD FACING ROD

SIZE	PART NUMBER	PACKAGE
1/8	71060	10 LBS.
5/32	71061	10 LBS.
3/16	71062	10 LBS.

ER 4043 ALUMINUM TIG ROD

1/16 X 36 PART NUMBER 71143

1/8 X 36 PART NUMBER 71144

E4043 ALUMINUM TIG ROD

3/32 PART NUMBER 711431

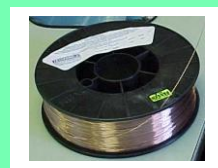
1/8 PART NUMBER 711432

5/32 PART NUMBER 711433

WELDING WIRE

RECOMMENDED FOR APPLICATIONS WHERE HIGH QUALITY
WELDS ARE DESIRED. PRODUCES LOW SPATTER

DESCRIPTION	PART NUMBER
.023X2#ER70S-6	71115
.030X44#ER70S-6	71121
.035X44#ER70S-6	71123
.045X44#ER70S-6	71124
.023X11#ER70S-6	71131
.030X11#ER70S-6	71132
.035X11#ER70S-6	71133
.045X11#ER70S-6	71134



.030X44#ER80S-D2

PART NUMBER 71140

.045X33# 121-G HARD SURFACE WIRE

PART NUMBER 711400

DESCRIPTION	PART NUMBER
.030X1# ALUMINUM 4043	711401
.035X1# ALUMINUM 4043	711402
.045X1# ALUMINUM 4043	711403
.030X1# ALUMINUM 5356	711411
.035X1# ALUMINUM 5356	711412
.045X1# ALUMINUM 5356	711413
.035X11# ALUMINUM	71142

ROSIN CORE SOLDER

1/16 60/40 PART NUMBER 71244

1/8 60/40 PART NUMBER 71245

1/8 ACID CORE SOLDER

PART NUMBER 71246

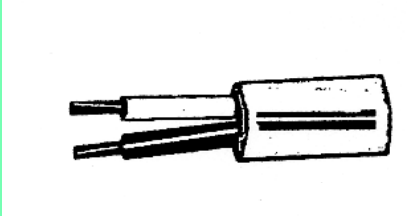


WIRES

WIRES

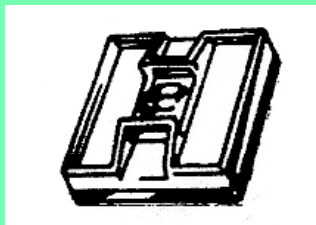
MULTIPLE CONDUCTOR WIRE

JACKETED PVC COATED



SIZE	PART NUMBER
18-2 GAUGE	53300
16-2 GAUGE	53301
16-3 GAUGE	53302
16-4 GAUGE	53303
14-2 GAUGE	53304
14-3 GAUGE	53305
12-2 GAUGE	53307
12-3 GAUGE	53308
12-4 GAUGE	53309
10-2 GAUGE	53310
8-2 GAUGE	53313
6-2 GAUGE	53314

PACKAGE IS 100 FT



CABLE TIE BASES

SIZE	PART NUMBER	PACKAGE
1 X 1	52690	10
1 X 2	52691	10
1 X 1- NON ADHESIVE	52692	10

LOOM CLIPS

PUSH - ON FRAME CLIPS



SIZE	PART NUMBER	PACKAGE
SMALL	52402	100
MEDIUM	52403	100
LARGE	52404	100

MECHANICS WIRE IN 2LB. SPOOLS

BLACK ANNEALED WIRE FOR EASY BENDING

GAUGE	PART NUMBER
16	70360
18	70361



WIRES

PRIMARY WIRE

PVC COATED

SIZE	PART NUMBER
18 GAUGE	53274
16 GAUGE	53275
14 GAUGE	53276
12 GAUGE	53277
10 GAUGE	53278

PACKAGE IS 100 FT ROLLS

TO DESIGNATE COLOR PREFERENCE ON PRIMARY WIRE
ADD TO THE END OF THE WIRE PART NUMBER THE FOLLOWING
CODE:

BLACK 1, BROWN 2, RED 3, ORANGE 4, YELLOW 5, GREEN 6,
BLUE 7, WHITE 8, NO COLOR PREFERENCE 0. A BLACK 16 GA.
WIRE WOULD BE NUMBERED THUS: 532751

WELDING CABLE

NEOPRINE COATED

SIZE	PART NUMBER	PACKAGE
6 GAUGE	53280	50 FT
4 GAUGE	53281	50 FT
2 GAUGE	53282	50 FT
1 GAUGE	53283	25 FT
1/0 GAUGE	53284	25 FT
2/0 GAUGE	53285	25 FT
3/0 GAUGE	53286	25 FT
4/0 GAUGE	53270	25 FT

TRAILER WIRE

PVC COATED

SIZE	PART NUMBER	PACKAGE
16-4 GAUGE	53290	100 FT
16-6 GAUGE	53291	100 FT
14-4 GAUGE	53292	100 FT
14-6 GAUGE	53293	100 FT
14-7 GAUGE	53294	25 FT
6-12 + 1-10 GAUGE	53295	25 FT



WIRE TIES

WIRE TIES

NATURAL COLORED NYLON WIRE TIES		
PART NUMBER	SIZE IN INCHES B DIM. X G DIM., TENSILE	PACK
524216	3/16 X 6"	100
52421	1/8 X 4, 18 LB.	100
52422	3/16 X 8, 50 LB.	
52449	3/16 X 11, 50 LB.	
52424	3/16 X 14, 50 LB.	100
52423	3/16 X 7, 50 LB. W/ HOLE	
52450	5/16 X 14.5, 175 LB. H. D.	
BLACK UV AND HEAT RESISTANT		
52443	1/8 X 4, 18 LB.	100
52444	1/8 X 6, 18 LB.	
52448	3/16 X 8, 50 LB.	
52452	3/16 X 11, 50 LB.	100
52453	3/16 X 14, 50 LB.	
52454	5/16 X 14, 175 LB.	
52456	3/16 X 8 50 LB. W/ HOLE	100
52457	3/16 X 8, 50 LB HOSE CLAMP	
52459	4"CLAMP TIE, MARINE	
52458	18" HEAVY DUTY	100
52462	24" HEAVY DUTY	100
52464	36" HEAVY DUTY	100
W21070	8-7/8 H.D. WHITE NYLON TIE	50

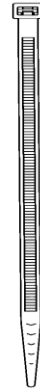
NUMBERS 52423 & 52456 HAVE A SCREW MOUNTING HOLE
FOR ROUTING CABLES OR HOSES, 52457 CAN BE USED AS
A HOSE CLAMP FOR LOW PRESSURE APPLICATIONS

COLORED NYLON CABLE TIES

COLOR	4" PART NUMBER	8" PART NUMBER	PACK
BROWN	W21501	W21521	100
RED	W21502	W21522	100
ORANGE	W21503	W21523	100
YELLOW	W21504	W21524	100
GREEN	W21505	W21525	100
BLUE	W21506	W21526	100
PURPLE	W21507	W21527	100
GRAY	W21508	W21528	100
NEON PINK	W21512	W21532	100
NEON ORANGE	W21513	W21533	100
NEON YELLOW	W21514	W21534	100
NEON GREEN	W21515	W21535	100

BLACK TY-RAP CABLE TIES

SIZE	TY-RAP#	PART NUMBER	PACK
3.62	TY23MX	W21641	1000
7.31	TY25MX	W21644	1000
11.10	TY26MX	W21794	100
11.40	TY253MX	W21645	1000
14.20	TY28MX	W21746	100
14.20	TY28MX	W21646	1000
13.40	TY27MX-HD	W21691	500
30"	TY29MX-HD	W21749	50



Clamp Ties

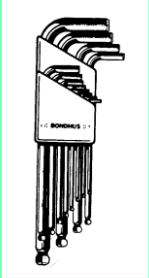




WRENCH SETS

WRENCH SETS

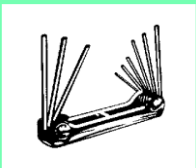
BALL DRIVER L WRENCHES IN BONDHEX CASE



SIZE	DESCRIPTION	PART NUMBER
.050 THRU 5/16	SET OF 12 BALLDRIVERS/INCHES	11500
5/64 THRU 3/16	SET OF 7 BALLDRIVERS/INCHES	11501
M1.5 THRU M10	SET OF 9 METRIC BALLDRIVERS	11502
M1.5 THRU M5	SET OF 6 METRIC BALLDRIVERS	11503
.050 THRU 3/8	SET OF 13 BALLDRIVERS/INCHES	11504
INCH .050 THRU 3/8 & M1.5 THRU M10	BONDHUS DUAL PACK INCH/METRIC BALLDRIVERS	11507

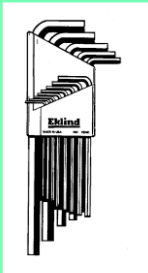
PACKAGE IS 1

FOLDING HEX KEY SETS



SIZES	DESCRIPTION	PART NUMBER
050 THRU 3/16	9 PC. INCH FOLDING KEY SET	11510
5/64 THRU 1/4	9 PC. INCH FOLDING KEY SET	11511
5/32 THRU 3/8	6 PC. INCH FOLDING KEY SET	11512
M1.5 THRU M6	7 PC. METRIC FOLDING KEY SET	11513
M3 THRU M10	6 PC. METRIC FOLDING KEY SET	11514
T8,T10-T40	8 PC. TORX FOLDING KEY SET	11515
INCH/METRIC/TORX	25PC. FOLDING HEX KEY SET	MIT25222

HEX L KEY SETS



SIZES	DESCRIPTION	PART NUMBER
.050 THRU 3/8	13 PC. INCH BALL/HEX L KEY SET	11516
M1.5 THRU M10	9 PC. METRIC BALL/HEX L KEY SET	11517
.050 THRU 3/8 LONG	13 PC. HEX L KEY SET	11518
M1.5 THRU M10	9 PC. METRIC HEX L KEY SET	11519
INCH/METRIC/TORX	24 PC. FOLDING COMBINATION SET	11520

MAGIC RING SCREW HOLDING HEX KEY SET

IN PLASTIC HOLDER



SIZE	DESCRIPTION	PART NUMBER
.M1.5 THRU M10.0	9 PIECE METRIC BALL END KEY SET	W66990
.050 THRU 3/8	13 PIECE BALL END KEY SET	W66991

