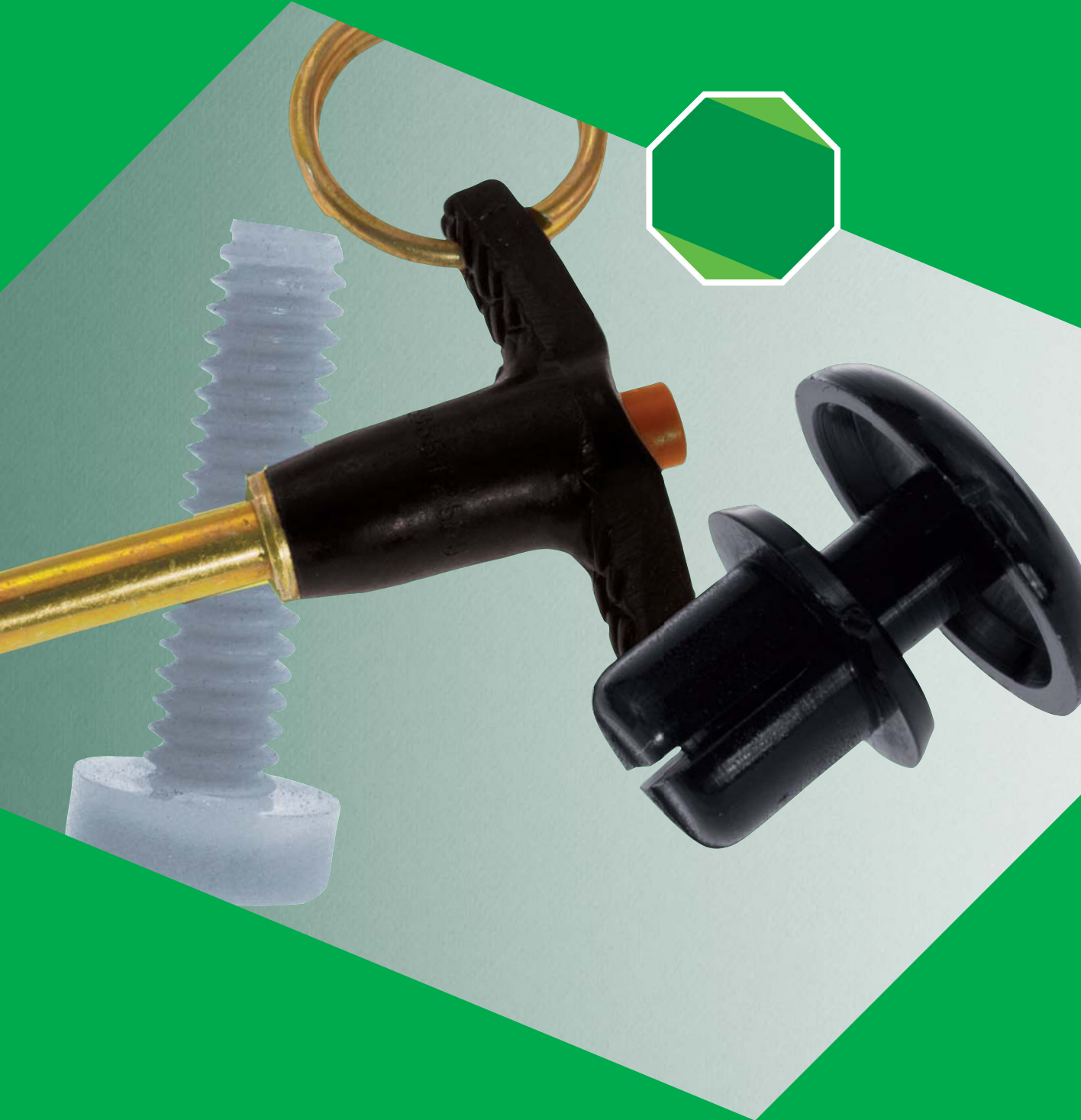


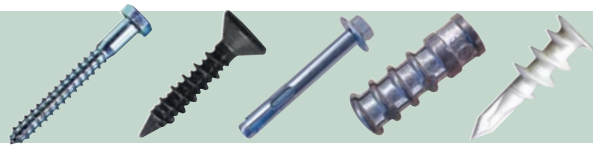


FASTENERS



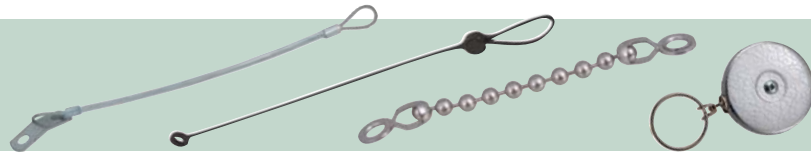
Anchors

773, 777



Lanyards

747 - 749



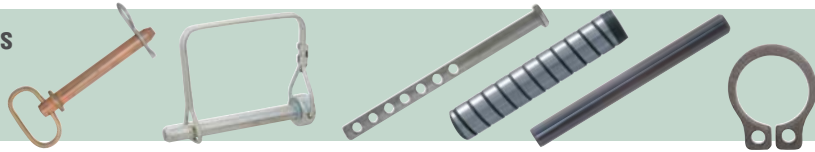
Nuts

808 - 815



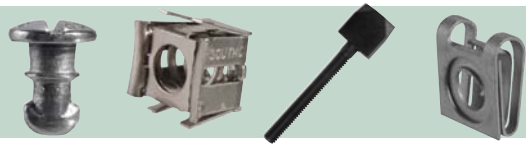
Pins & Retaining Rings

740 - 747, 750 - 755



Quarter Turn Fastener & Accessories

797



Quick Release Ball Lock Pins

740 - 747



Rivets

730 - 739



Screws & Bolts

764 - 796



Thread Inserts, Tools & Kits

756 - 763



Vibration Control

798 - 799, 816



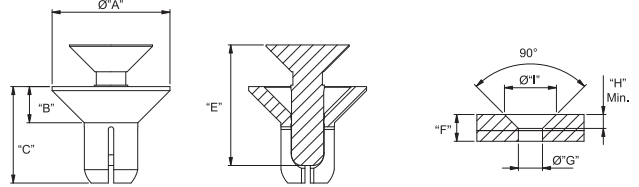
Washers, Spacers & Bushings

798 - 807





SRCS
Countersunk Snap Rivets



Mounting Hole Detail

Specifications:

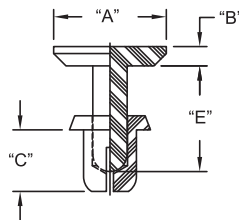
- Material: UL94 V-2 Nylon 6
- Color: Black and White

Features:

- Countersunk design for flush surface
- Tamper resistant design
- Accommodates countersunk hole specification DIN ISO 7721

Item No.		"A"	"B"	"C"	"E"	Total Holding Thickness	Hole Ø "G"	"H" Min.	"I"	Pack Qty.
Black	White									
SRCS-4060B	SRCS-4060W	.35 (8.8)	.11 (2.7)	.24 (6)	.28 (7.1)	.14 - .18 (3.5 - 4.5)	.16 - .17 (4.1 - 4.2)	.10 (2.6)	.37 (9.4)	1,000
SRCS-4070B	SRCS-4070W	.35 (8.8)	.11 (2.7)	.28 (7.2)	.35 (9)	.18 - .22 (4.5 - 5.5)	.16 - .17 (4.1 - 4.2)	.10 (2.6)	.37 (9.4)	1,000
SRCS-4080B	SRCS-4080W	.35 (8.8)	.11 (2.7)	.32 (8)	.35 (9)	.22 - .26 (5.5 - 6.5)	.16 - .17 (4.1 - 4.2)	.10 (2.6)	.37 (9.4)	1,000
SRCS-4090B	SRCS-4090W	.35 (8.8)	.11 (2.7)	.35 (9)	.43 (11)	.26 - .30 (6.5 - 7.5)	.16 - .17 (4.1 - 4.2)	.10 (2.6)	.37 (9.4)	1,000
SRCS-4100B	SRCS-4100W	.35 (8.8)	.11 (2.7)	.39 (10)	.43 (11)	.30 - .34 (7.5 - 8.5)	.16 - .17 (4.1 - 4.2)	.10 (2.6)	.37 (9.4)	1,000
SRCS-5065B	SRCS-5065W	.39 (9.8)	.11 (2.7)	.26 (6.5)	.35 (8.5)	.14 - .18 (3.5 - 4.5)	.20 - .21 (5.1 - 5.2)	.10 (2.6)	.41 (10.4)	1,000

SRH
Snap Rivets, H-Type



Specifications:

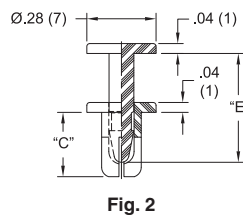
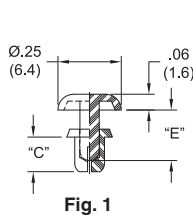
- Material: UL94 V-2 Nylon 6
- Color: Black

Features:

- Flat head design eases assembly and disassembly
- Installed easily by hand

Item No.	Hole Ø	Total Holding Thickness	"A" Ø	"B"	"C"	"E"	Pack Qty.
SRH-3035	.122 - .126 (3.1 - 3.2)	.039 - .079 (1 - 2)	.252 (6.4)	.039 (1)	.14 (3.5)	.26 (6.5)	1,000
SRH-3045	.122 - .126 (3.1 - 3.2)	.079 - .118 (2 - 3)	.252 (6.4)	.039 (1)	.18 (4.5)	.26 (6.5)	1,000
SRH-3055	.122 - .126 (3.1 - 3.2)	.118 - .157 (3 - 4)	.252 (6.4)	.039 (1)	.22 (5.6)	.26 (6.5)	1,000
SRH-3065	.122 - .126 (3.1 - 3.2)	.157 - .197 (4 - 5)	.236 (6)	.039 (1)	.26 (6.5)	.39 (10)	1,000
SRH-3080	.122 - .126 (3.1 - 3.2)	.197 - .256 (5 - 6.5)	.236 (6)	.039 (1)	.31 (8)	.39 (10)	1,000
SRH-3090	.122 - .126 (3.1 - 3.2)	.256 - .295 (6.5 - 7.5)	.252 (6.4)	.039 (1)	.35 (9)	.47 (12)	1,000
SRH-3100	.122 - .126 (3.1 - 3.2)	.295 - .335 (7.5 - 8.5)	.252 (6.4)	.039 (1)	.39 (10)	.47 (12)	1,000
SRH-3535	.142 - .146 (3.6 - 3.7)	.047 - .083 (1.2 - 2.1)	.252 (6.4)	.039 (1)	.14 (3.5)	.26 (6.5)	1,000
SRH-3545	.142 - .146 (3.6 - 3.7)	.087 - .122 (2.2 - 3.1)	.252 (6.4)	.039 (1)	.18 (4.5)	.26 (6.5)	1,000
SRH-3555	.142 - .146 (3.6 - 3.7)	.118 - .157 (3 - 4)	.236 (6)	.039 (1)	.22 (5.5)	.39 (10)	1,000
SRH-3560	.142 - .146 (3.6 - 3.7)	.138 - .177 (3.5 - 4.5)	.236 (6)	.039 (1)	.24 (6)	.39 (10)	1,000
SRH-3570	.142 - .146 (3.6 - 3.7)	.177 - .217 (4.5 - 5.5)	.236 (6)	.039 (1)	.28 (7)	.39 (10)	1,000
SRH-3580	.142 - .146 (3.6 - 3.7)	.217 - .256 (5.5 - 6.5)	.236 (6)	.039 (1)	.31 (8)	.39 (10)	1,000

SRP
High Temperature Snap Rivet



Specifications:

- Material: UL94 V-1 Polysulfone
- Color: Black

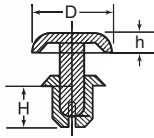
Features:

- Withstands temperatures up to 311°F (155°C)

Item No.	Hole Ø	Total Holding Thickness	"C"	"E"	Fig. No.	Pack Qty.
SRP-3045	.122 - .126 (3.1 - 3.2)	.059 - .098 (1.5 - 2.5)	.18 (4.5)	.24 (6.1)	1	1,000
SRP-3055	.122 - .126 (3.1 - 3.2)	.098 - .138 (2.5 - 3.5)	.22 (5.5)	.24 (6.1)	1	1,000
SRP-4065	.157 - .165 (4 - 4.2)	.138 - .177 (3.5 - 4.5)	.26 (6.5)	.43 (11)	2	1,000



SR/SRVO/SRHR Series
Snap Rivet



Specifications:

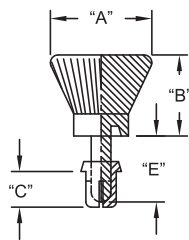
- Material: Nylon 6; Nylon 66/6; Nylon 4/6
- Color: Black, White, or Tan

Features:

- Designed for fast & easy installation without any tools
- Simply place rivet into hole & press down on the head to fasten
- Round head provides a clean, finished look
- SRHR part numbers withstand temperatures up to 266°F (130°C)

Item No.		Item No.		Hole Dia.	Panel Thickness		D		H		h		Pack Qty.	
Nylon 6 UL 94V-2		Nylon 66/6 UL 94V-0			Nylon 4/6 UL 94V-2		In		mm		In			mm
SR-2024B	SR-2024W	SRVO-2024B	—	0.083 - 0.087	2.1 - 2.2	0.024 - 0.047	0.6 - 1.2	0.165	4.2	0.090	2.5	0.047	1.2	1,000
SR-2032B	SR-2032W	SRVO-2032B	—	0.083 - 0.087	2.1 - 2.2	0.051 - 0.079	1.3 - 2.0	0.165	4.2	0.130	3.2	0.047	1.2	1,000
SR-2040B	SR-2040W	SRVO-2040B	—	0.083 - 0.087	2.1 - 2.2	0.083 - 0.110	2.1 - 2.8	0.165	4.2	0.160	4.0	0.047	1.2	1,000
SR-2048B	SR-2048W	SRVO-2048B	—	0.083 - 0.087	2.1 - 2.2	0.114 - 0.142	2.9 - 3.6	0.165	4.2	0.190	4.8	0.047	1.2	1,000
SR-2056B	SR-2056W	SRVO-2056B	—	0.083 - 0.087	2.1 - 2.2	0.146 - 0.173	3.7 - 4.4	0.165	4.2	0.220	5.6	0.047	1.2	1,000
SR-2064B	SR-2064W	SRVO-2064B	—	0.083 - 0.087	2.1 - 2.2	0.173 - 0.197	4.4 - 5.0	0.165	4.2	0.250	6.4	0.047	1.2	1,000
SR-2632B	SR-2632W	SRVO-2632B	—	0.106 - 0.110	2.7 - 2.8	0.039 - 0.079	1.0 - 2.0	0.197	5.0	0.130	3.2	0.055	1.4	1,000
SR-2642B	SR-2642W	SRVO-2642B	—	0.106 - 0.110	2.7 - 2.8	0.079 - 0.118	2.0 - 3.0	0.197	5.0	0.170	4.2	0.055	1.4	1,000
SR-2648B	SR-2648W	SRVO-2648B	—	0.106 - 0.110	2.7 - 2.8	0.106 - 0.142	2.7 - 3.6	0.197	5.0	0.190	4.8	0.055	1.4	1,000
SR-2655B	SR-2655W	SRVO-2655B	—	0.106 - 0.110	2.7 - 2.8	0.134 - 0.169	3.4 - 4.3	0.197	5.0	0.220	5.6	0.055	1.4	1,000
SR-2664B	SR-2664W	SRVO-2664B	—	0.106 - 0.110	2.7 - 2.8	0.169 - 0.205	4.3 - 5.2	0.197	5.0	0.250	6.4	0.055	1.4	1,000
SR-2672B	SR-2672W	SRVO-2672B	—	0.106 - 0.110	2.7 - 2.8	0.201 - 0.236	5.1 - 6.0	0.197	5.0	0.280	7.2	0.055	1.4	1,000
SR-3035B	SR-3035W	SRVO-3035B	SRHR-3035	0.122 - 0.126	3.1 - 3.2	0.039 - 0.079	1.0 - 2.0	0.252	6.4	0.140	3.5	0.063	1.6	1,000
SR-3045B	SR-3045W	SRVO-3045B	SRHR-3045	0.122 - 0.126	3.1 - 3.2	0.079 - 0.118	2.0 - 3.0	0.252	6.4	0.180	4.5	0.063	1.6	1,000
SR-3055B	SR-3055W	SRVO-3055B	SRHR-3055	0.122 - 0.126	3.1 - 3.2	0.118 - 0.157	3.0 - 4.0	0.252	6.4	0.220	5.6	0.063	1.6	1,000
SR-3065B	SR-3065W	SRVO-3065B	SRHR-3065	0.122 - 0.126	3.1 - 3.2	0.157 - 0.197	4.0 - 5.0	0.252	6.4	0.260	6.5	0.063	1.6	1,000
SR-3075B	SR-3075W	SRVO-3075B	—	0.122 - 0.126	3.1 - 3.2	0.197 - 0.236	5.0 - 6.0	0.252	6.4	0.300	7.5	0.063	1.6	1,000
SR-3080B	SR-3080W	SRVO-3080B	SRHR-3080	0.122 - 0.126	3.1 - 3.2	0.217 - 0.256	5.5 - 6.5	0.252	6.4	0.320	8.0	0.063	1.6	1,000
SR-3090B	SR-3090W	SRVO-3090B	—	0.122 - 0.126	3.1 - 3.2	0.256 - 0.295	6.5 - 7.5	0.252	6.4	0.350	9.0	0.063	1.6	1,000
SR-3100B	SR-3100W	SRVO-3100B	—	0.122 - 0.126	3.1 - 3.2	0.295 - 0.335	7.5 - 8.5	0.252	6.4	0.390	10.0	0.063	1.6	1,000
RS200B	RS200W	—	—	0.122 - 0.126	3.1 - 3.2	0.453 - 0.512	11.5 - 13.0	0.252	6.4	0.571	14.5	0.063	1.6	1,000
SR-3230B	RS205W	—	—	0.122 - 0.126	3.1 - 3.2	0.807 - 0.847	20.5 - 21.5	0.252	6.4	0.906	23	0.063	1.6	1,000
SR-3535B	SR-3535W	SRVO-3535B	SRHR-3535	0.142 - 0.146	3.6 - 3.7	0.047 - 0.083	1.2 - 2.1	0.252	6.4	0.140	3.5	0.063	1.6	1,000
SR-3545B	SR-3545W	SRVO-3545B	SRHR-3545	0.142 - 0.146	3.6 - 3.7	0.083 - 0.118	2.1 - 3.0	0.252	6.4	0.180	4.5	0.063	1.6	1,000
SR-3550B	SR-3550W	SRVO-3550B	—	0.142 - 0.146	3.6 - 3.7	0.106 - 0.142	2.7 - 3.6	0.252	6.4	0.200	5.0	0.063	1.6	1,000
SR-3555B	SR-3555W	SRVO-3555B	SRHR-3555	0.142 - 0.146	3.6 - 3.7	0.118 - 0.157	3.0 - 4.0	0.252	6.4	0.220	5.6	0.063	1.6	1,000
SR-3560B	SR-3560W	SRVO-3560B	—	0.142 - 0.146	3.6 - 3.7	0.146 - 0.181	3.7 - 4.6	0.252	6.4	0.240	6.0	0.063	1.6	1,000
SR-3570B	SR-3570W	SRVO-3570B	—	0.142 - 0.146	3.6 - 3.7	0.177 - 0.217	4.5 - 5.5	0.252	6.4	0.280	7.2	0.063	1.6	1,000
SR-3580B	SR-3580W	SRVO-3580B	—	0.142 - 0.146	3.6 - 3.7	0.217 - 0.256	5.5 - 6.5	0.252	6.4	0.320	8.0	0.063	1.6	1,000
SR-4050B	SR-4050W	SRVO-4050B	SRHR-4050	0.161 - 0.165	4.1 - 4.2	0.098 - 0.138	2.5 - 3.5	0.315	8.0	0.200	5.0	0.071	1.8	1,000
SR-4060B	SR-4060W	SRVO-4060B	SRHR-4060	0.161 - 0.165	4.1 - 4.2	0.138 - 0.177	3.5 - 4.5	0.315	8.0	0.240	6.0	0.071	1.8	1,000
SR-4070B	SR-4070W	SRVO-4070B	SRHR-4070	0.161 - 0.165	4.1 - 4.2	0.177 - 0.217	4.5 - 5.5	0.315	8.0	0.280	7.2	0.071	1.8	1,000
SR-4080B	SR-4080W	SRVO-4080B	SRHR-4080	0.161 - 0.165	4.1 - 4.2	0.217 - 0.256	5.5 - 6.5	0.315	8.0	0.320	8.0	0.071	1.8	1,000
SR-4090B	SR-4090W	SRVO-4090B	SRHR-4090	0.161 - 0.165	4.1 - 4.2	0.256 - 0.295	6.5 - 7.5	0.315	8.0	0.350	9.0	0.071	1.8	1,000
SR-4100B	SR-4100W	SRVO-4100B	SRHR-4100	0.161 - 0.165	4.1 - 4.2	0.295 - 0.335	7.5 - 8.5	0.315	8.0	0.390	10.0	0.071	1.8	1,000
SR-4120B	SR-4120W	SRVO-4120B	—	0.161 - 0.165	4.1 - 4.2	0.354 - 0.413	9.0 - 10.5	0.315	8.0	0.470	12.0	0.071	1.8	1,000
SR-5045B	SR-5045W	SRVO-5045B	—	0.201 - 0.205	5.1 - 5.2	0.059 - 0.098	1.5 - 2.5	0.354	9.0	0.180	4.5	0.087	2.2	1,000
SR-5055B	SR-5055W	SRVO-5055B	—	0.201 - 0.205	5.1 - 5.2	0.098 - 0.138	2.5 - 3.5	0.354	9.0	0.220	5.6	0.087	2.2	1,000
SR-5065B	SR-5065W	SRVO-5065B	—	0.201 - 0.205	5.1 - 5.2	0.138 - 0.177	3.5 - 4.5	0.354	9.0	0.260	6.5	0.087	2.2	1,000
SR-5075B	SR-5075W	SRVO-5075B	—	0.201 - 0.205	5.1 - 5.2	0.177 - 0.217	4.5 - 5.5	0.354	9.0	0.300	7.5	0.087	2.2	1,000
SR-5085B	SR-5085W	SRVO-5085B	—	0.201 - 0.205	5.1 - 5.2	0.217 - 0.256	5.5 - 6.5	0.354	9.0	0.340	8.5	0.087	2.2	1,000
SR-5095B	SR-5095W	SRVO-5095B	—	0.201 - 0.205	5.1 - 5.2	0.256 - 0.295	6.5 - 7.5	0.354	9.0	0.370	9.5	0.087	2.2	1,000
SR-5105B	SR-5105W	SRVO-5105B	—	0.201 - 0.205	5.1 - 5.2	0.295 - 0.335	7.5 - 8.5	0.354	9.0	0.410	10.5	0.087	2.2	1,000
SR-6060B	SR-6060W	SRVO-6060B	—	0.240 - 0.244	6.1 - 6.2	0.098 - 0.157	2.5 - 4.0	0.472	12.0	0.240	6.0	0.098	2.5	1,000
SR-6080B	SR-6080W	SRVO-6080B	—	0.240 - 0.244	6.1 - 6.2	0.138 - 0.217	3.5 - 5.5	0.472	12.0	0.320	8.0	0.118	3.0	1,000

SRT
Snap Rivet, T-Type



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Push/pull knob lets rivet snap in and out up to 25 times
- For applications requiring speedy assembly and disassembly

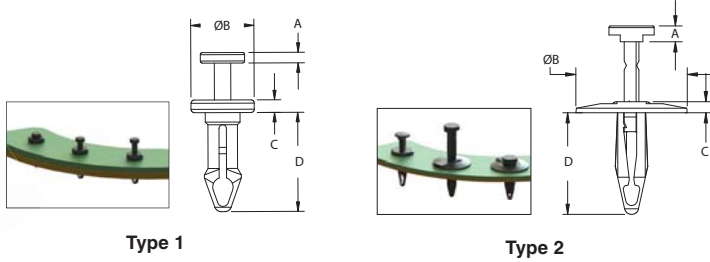
Item No.	Hole Ø	Total Holding Thickness	"A" Ø	"B"	"C"	"E"	Pack Qty.
SRT-3035B	.122 - .126 (3.1 - 3.2)	.039 - .079 (1 - 2)	.394 (10)	.315 (8)	.14 (3.5)	.26 (6.5)	1,000
SRT-3045B	.122 - .126 (3.1 - 3.2)	.079 - .118 (2 - 3)	.394 (10)	.315 (8)	.18 (4.5)	.26 (6.5)	1,000
SRT-3055B	.122 - .126 (3.1 - 3.2)	.118 - .157 (3 - 4)	.394 (10)	.315 (8)	.22 (5.6)	.26 (6.5)	1,000
SRT-3065B	.122 - .126 (3.1 - 3.2)	.157 - .197 (4 - 5)	.394 (10)	.315 (8)	.26 (6.5)	.35 (9)	1,000
SRT-3075B	.122 - .126 (3.1 - 3.2)	.197 - .236 (5 - 6)	.394 (10)	.315 (8)	.30 (7.5)	.35 (9)	1,000
SRT-3080B	.122 - .126 (3.1 - 3.2)	.217 - .256 (5.5 - 6.5)	.394 (10)	.315 (8)	.32 (8)	.35 (9)	1,000
SRT-3535B	.142 - .146 (3.6 - 3.7)	.039 - .079 (1 - 2)	.394 (10)	.315 (8)	.14 (3.5)	.26 (6.5)	1,000
SRT-3545B	.142 - .146 (3.6 - 3.7)	.079 - .118 (2 - 3)	.394 (10)	.315 (8)	.18 (4.5)	.26 (6.5)	1,000
SRT-3555B	.142 - .146 (3.6 - 3.7)	.118 - .146 (3 - 3.7)	.394 (10)	.315 (8)	.22 (5.5)	.26 (6.6)	1,000
SRT-3570B	.142 - .146 (3.6 - 3.7)	.150 - .205 (3.8 - 5.2)	.394 (10)	.315 (8)	.28 (7)	.35 (9)	1,000
SRT-3580B	.142 - .146 (3.6 - 3.7)	.209 - .256 (5.3 - 6.5)	.394 (10)	.315 (8)	.32 (8)	.35 (9)	1,000
SRT-4050B	.161 - .165 (4.1 - 4.2)	.098 - .138 (2.5 - 3.5)	.472 (12)	.315 (8)	.20 (5)	.30 (7.6)	1,000
SRT-4060B	.161 - .165 (4.1 - 4.2)	.138 - .177 (3.5 - 4.5)	.472 (12)	.315 (8)	.24 (6)	.30 (7.6)	1,000
SRT-4070B	.161 - .165 (4.1 - 4.2)	.177 - .216 (4.5 - 5.5)	.472 (12)	.315 (8)	.28 (7)	.44 (11.2)	1,000
SRT-4080B	.161 - .165 (4.1 - 4.2)	.216 - .256 (5.5 - 6.5)	.472 (12)	.315 (8)	.32 (8)	.44 (11.2)	1,000
SRT-4090B	.161 - .165 (4.1 - 4.2)	.256 - .295 (6.5 - 7.5)	.472 (12)	.315 (8)	.35 (9)	.44 (11.2)	1,000
SRT-4100B	.161 - .165 (4.1 - 4.2)	.295 - .335 (7.5 - 8.5)	.472 (12)	.315 (8)	.39 (10)	.44 (11.2)	1,000



FASTENERS
SNAP RIVETS

Buy One or
Buy Bulk & SAVE

TR/TRM Series
Tough Snap Rivet



Specifications:

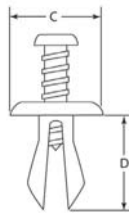
- Material: Type 1: Nylon 6/6, Flame Class: UL94V-0
Type 2: Nylon 6/6, Flame Class: UL94HB
- Color: Black

Features:

- TRM: Heat stabilized
- TR: Impact Modified

Item No.	Hole Dia.		Panel Thickness		A		Ø B		C		D		Type	Pack Qty.
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm		
TRM-1	.097 - .103	2.5 - 2.6	0.160 - 0.180	4.1 - 4.6	0.040	1.0	0.190	4.8	0.060	1.5	.345	8.8	1	1000
TRM-2	.106 - .112	2.7 - 2.8	0.080 - 0.105	2.0 - 2.7	0.050	1.3	0.218	5.5	0.060	1.5	.300	7.6	1	1000
TRM-3	.122 - .128	3.1 - 3.3	0.105 - 0.130	2.7 - 3.3	0.050	1.3	0.218	5.5	0.060	1.5	.320	8.1	1	1000
TRM-4	.122 - .128	3.1 - 3.3	0.130 - 0.155	3.3 - 3.9	0.050	1.3	0.218	5.5	0.060	1.5	.345	7.6	1	1000
TRM-5	.122 - .128	3.1 - 3.3	0.155 - 0.180	3.9 - 4.6	0.050	1.3	0.218	5.5	0.060	1.5	.370	9.4	1	1000
TRM-6	.122 - .128	3.1 - 3.3	0.240 - 0.265	6.1 - 6.7	0.050	1.3	0.218	5.5	0.060	1.5	.455	11.6	1	1000
TRM-7	.144 - .154	3.7 - 3.9	0.265 - 0.290	6.7 - 7.4	0.050	1.3	0.300	7.6	0.060	1.5	.470	11.9	1	1000
TR-1	.193 - .205	4.9 - 5.2	0.059 - 0.181	1.5 - 4.6	0.100	2.5	0.283	7.2	0.045	1.1	.445	11.3	2	1000
TR-2	.248 - .276	6.3 - 7	0.098 - 0.350	2.5 - 8.9	0.140	3.6	0.985	25.0	0.098	2.5	.898	22.8	2	1000
TR-3	.250 - .276	6.4 - 7	0.098 - 0.315	2.5 - 8.0	0.110	2.8	0.585	14.9	0.079	2.0	.897	22.8	2	1000
TR-4	.315 - .325	8 - 8.3	0.118 - 0.315	3.0 - 8.0	0.091	2.3	0.585	14.9	0.106	2.7	.830	21.1	2	1000

TPSR/USR Series
Two Piece Screw Rivet



Specifications:

- Material: Nylon 6/6, **Nylon 6
- Color: Natural
- Flame Class: UL94V-2

Features:

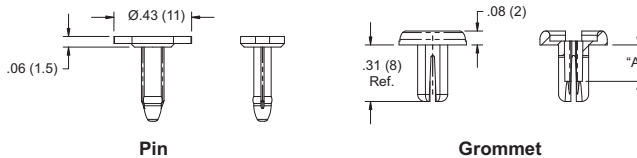
- For heavy duty applications
- Ideal for outdoor environments
- Resistant to corrosion, oil, abrasion, & most chemicals
- Reusable

Item No.	Hole Dia.		Panel Thickness		Ø C		D		Pack Qty.
	In	mm	In	mm	In	mm	In	mm	
USR-1131	0.197	5.0	0.059 - 0.236	1.5 - 6.0	0.472	12.0	0.433	11.0	1,000
TPSR100A	0.230	5.8	0.156	3.96	0.591	15.0	0.421	10.7	1,000
USR-1132	0.236	6.0	0.059 - 0.236	1.5 - 6.0	0.630	16.0	0.433	11.0	1,000
TPSR105A	0.235	6.0	0.140	3.56	0.703	17.9	0.437	11.1	1,000
USR-64125**	0.250	6.4	0.126 - 0.172	3.2 - 4.4	0.594	15.1	0.500	12.7	500
TPSR110A	0.270	6.9	0.093	2.36	0.689	17.5	0.476	12.1	1,000
USR-1133	0.315	8.0	0.118 - 0.394	3.0 - 10.0	0.787	20.0	0.551	14.0	1,000
USR-1*	0.315	8.0	0.276 - 0.315	7.0 - 8.0	0.787	20.0	0.866	22.0	1,000

* Screw Material: Acetal UL94 HB; Grommet Material: Nylon 6

** Nylon 6

RRR
Removable Rivet

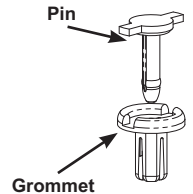


Specifications:

- Material: UL94 V-0 Nylon 66/6
- Color: Black

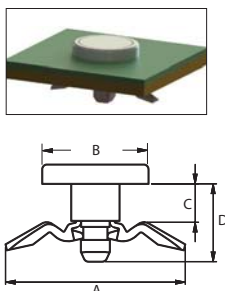
Features:

- Pin and grommet are supplied unassembled
- Pin is removable by pulling on the side tabs
- Can be used in a round or square hole



Item No.	Hole Size	Total Holding Thickness	"A" Ref.	Pack Qty.
RRR-1	.188-.208 (4.76-5.28) Ø or .177 (4.5) Min. Square	.059-.138 (1.5-3.5)	.14 (3.6)	1,000
RRR-2	.188-.208 (4.76-5.28) Ø or .177 (4.5) Min. Square	.138-.217 (3.5-5.5)	.17 (4.4)	1,000

RFL Series
Folding Leg Rivet



Specifications:

- Material: Nylon 6/6
- Color: Natural or Black
- Flame Class: UL94V-2

Features:

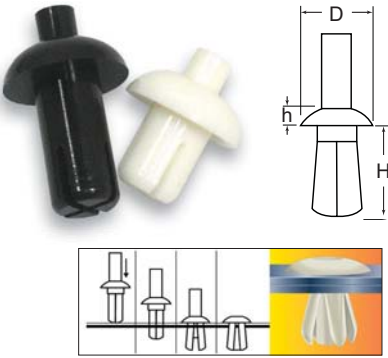
- Pushing the pin in the rivet body causes the legs to expand and grip the material
- Once installed, the rivet cannot be removed from the outside of the box
- Can be used with cardboard boxes or other porous materials



Item No.	Hole Dia.		Panel Thickness C		Ø B		A		D		Pack Qty.	
	Natural	Black	In	mm	In	mm	In	mm	In	mm		
RFL-1	RFL-1BK	0.220	5.5	0.110 - 0.150	2.9 - 3.9	0.430	11.0	0.730	18.6	0.290	7.4	1000
RFL-2	RFL-2BK	0.220	5.5	0.140 - 0.180	3.6 - 4.6	0.430	11.0	0.730	18.6	0.320	8.1	1000



**RP/PPR Series
Push Rivet**



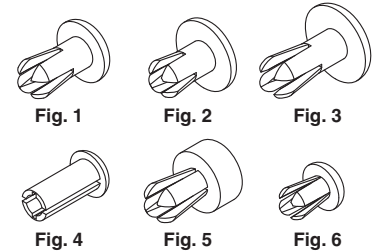
Installation Tool	Fig.
PPR-T1	1, 2, 4 6
PPR-T4	3, 5

Specifications:

- Material: Nylon 6; *Nylon 6/6, **Polyethylene
- Color: See Table

Features:

- Install by placing rivet into hole and pushing plunger into the rivet to expand legs to lock in place

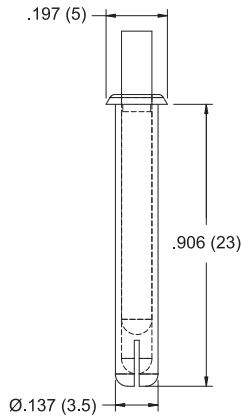


Item No.		Natural	Hole Dia.		Panel Thickness		Ø D		h		H		Fig.	Pack Qty.
Black	White		in	mm	in	mm	in	mm	in	mm	in	mm		
RP100B	RP100W	—	0.122	3.1	0.079 - 0.118	2.0 - 3.0	0.230	5.8	0.080	2.0	0.177	4.5	—	1,000
PPR-3055B	RP105W	—	0.122	3.1	0.118 - 0.157	3.0 - 4.0	0.230	5.8	0.080	2.0	0.220	5.6	—	1,000
PPR-4050B	RP110W	—	0.161	4.1	0.098 - 0.137	2.5 - 3.5	0.310	8.0	0.090	2.2	0.200	5.0	—	1,000
RP115B	RP115W	—	0.161	4.1	0.137 - 0.177	3.5 - 4.5	0.310	8.0	0.090	2.2	0.236	6.0	—	1,000
PPR-4850B	—	—	0.189	4.8	0.050 - 0.120	1.2 - 3.0	0.390	9.9	0.130	3.3	0.200	5.1	—	1,000
PPR-5B*	—	PPR-5*	0.189	4.8	0.039 - 0.375	1.0 - 9.5	0.280	7.1	0.063	1.6	0.421	10.7	4	1,000
PPR-2B*	—	PPR-2*	0.189	4.8	0.158 - 0.281	4.0 - 7.1	0.430	10.9	0.059	1.5	0.382	9.7	2	1,000
PPR-93-7B*	—	PPR-93-7*	0.197	5.0	0.059 - 0.197	1.5 - 5.0	0.280	7.1	0.079	2.0	0.291	7.4	6	1,000
PPR-93-14B*	—	—	0.197	5.0	0.118 - 0.276	3.0 - 7.0	0.382	9.7	0.079	2.0	0.433	11.0	6	1,000
RP130B	RP130W	—	0.201	5.1	0.079 - 0.118	2.0 - 3.0	0.370	9.4	0.110	2.8	0.197	5.0	—	1,000
PPR-5060B	RP135W	—	0.201	5.1	0.118 - 0.157	3.0 - 4.0	0.370	9.4	0.110	2.8	0.240	6.0	—	1,000
PPR-5070B	RP140W	—	0.201	5.1	0.157 - 0.197	4.0 - 5.0	0.370	9.4	0.110	2.8	0.280	7.0	—	1,000
PPR-5080B	RP145W	—	0.201	5.1	0.197 - 0.236	5.0 - 6.0	0.370	9.4	0.110	2.8	0.320	8.0	—	1,000
RP150B	RP150W	—	0.201	5.1	0.236 - 0.275	6.0 - 7.0	0.370	9.4	0.110	2.8	0.354	9.0	—	1,000
RP155B	RP155W	—	0.201	5.1	0.275 - 0.315	7.0 - 8.0	0.370	9.4	0.110	2.8	0.394	10.0	—	1,000
PPR-1B*	—	PPR-1*	0.217	5.5	0.094 - 0.158	2.4 - 4.0	0.370	9.4	0.079	2.0	0.449	11.4	1	1,000
PPR-6060B**	—	—	0.240	6.1	0.100 - 0.160	2.5 - 4.0	0.430	10.9	0.060	1.5	0.240	6.1	—	1,000
—	—	PPR-9*	0.252	6.4	0.059 - 0.252	1.5 - 6.4	0.440	11.1	0.185	4.7	0.366	9.3	5	1,000
—	—	PPR-4*	0.252	6.4	0.280 - 0.500	7.1 - 12.7	0.470	11.9	0.079	2.0	0.622	15.8	3	1,000

* Nylon 6/6

** Polyethylene

**FR-1
Fan Mount Rivet**



Specifications:

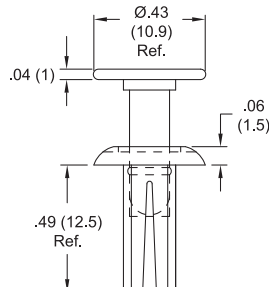
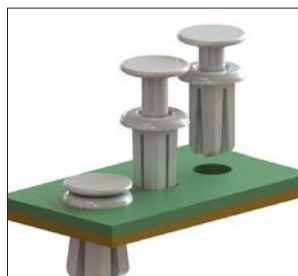
- Material: UL94 V-2 Nylon 6
- Color: Black

Features:

- Permanently mounts fan to chassis, or finger guards to fan
- Provides tamper-resistant application
- Prongs expand to hold securely as pin is driven in
- Single-operation front mounting saves time and money

Item No.	Hole Ø	Mounting Thickness	Installation Tool	Pack Qty.
FR-1	.137-.138 (3.49-3.51)	.807-.846 (20.5-21.5)	PPR-T1	1,000

**PPR-10
Push Rivet**



Specifications:

- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:

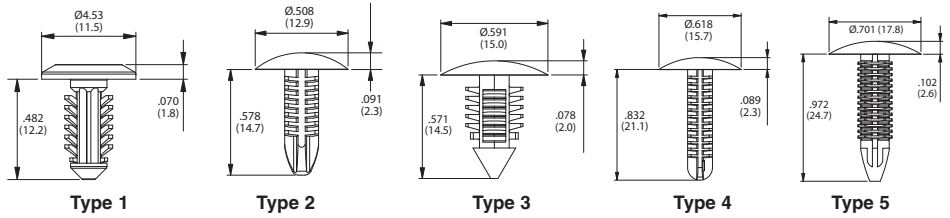
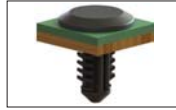
- Used in either a round or square hole
- Square hole mounting is for anti-rotation applications

Item No.	Total Holding Thickness	Mounting Hole Options (Round Hole)	Mounting Hole Options (Square Hole)	Pack Qty.
PPR-10	.140-.20 (3.56-5.08)	.25 (6.4)	.22 (5.6)	100





BPF Series
Barbed Push Fastener

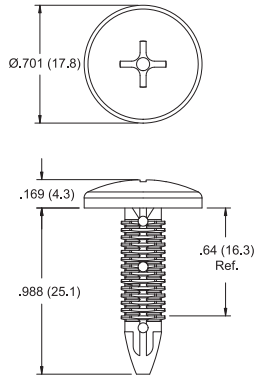


Specifications:

- Material: Nylon 6/6
- Color: Black

Item No.	Hole Dia.		Panel Thickness		Head Dia.		Lock Length		Head Thickness		Type	Material	Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm			
BPF-A414	0.185	4.7	0.031 - 0.118	0.8 - 3.0	0.453	11.5	0.482	12.2	0.070	1.8	1	UL94V-0	1,000
BPF-F4410	0.197	5.0	0.059 - 0.295	1.5 - 7.5	0.508	12.9	0.578	14.7	0.091	2.3	2	UL94V-2	1,000
BPF-F3T31	0.197	5.0	0.079 - 0.394	2.0 - 10.0	0.618	15.7	0.832	21.1	0.089	2.3	4	UL94V-0	1,000
BPF-F2495	0.276	7.0	0.125 - 0.236	3.2 - 6.0	0.591	15.0	0.571	14.5	0.078	2.0	3	UL94V-0	1,000
BPF-F1G12	0.276	7.0	0.079 - 0.091	2.0 - 15.0	0.701	17.8	0.972	24.7	0.102	2.6	5	UL94V-0	1,000

BPFR
Removable Fir-Tree Rivet



Specifications:

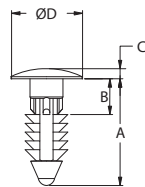
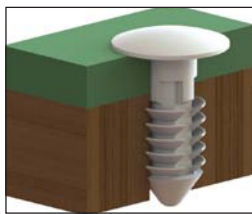
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:

- Removable from threaded holes using a phillips head screwdriver

Item No.	Threaded Hole	Non-Threaded Hole Ø	Minimum Panel Thickness	Pack Qty.
BPFR-1	5/16 (M8)	.276 (7)	.236 (6)	1,000

PL Series
Pawl Lock

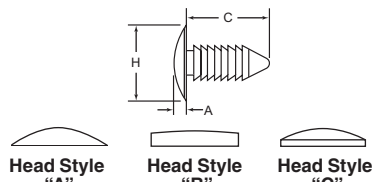


Specifications:

- Material: Nylon 6/6
- Color: Natural
- Flame Class: UL94V-2

Item No.	Hole Dia.		Spacer length B		Head Dia. D		Lock Length A		Head Thickness C		Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	
MPLE-3.2M-01	0.126	3.2	0.080	2.0	0.190	4.8	0.190	4.8	0.040	1.1	1,000
MPLE-32M/35M-01	0.126 - 0.138	3.2 - 3.5	0.080	2.0	0.190	4.8	0.200	5.2	0.040	1.1	1,000
PL-250-10-01	0.250	6.35	0.125	3.2	0.500	12.7	0.606	15.4	0.078	2.0	1,000
PL-250-12-01	0.250	6.35	0.264	6.7	0.500	12.7	0.751	19.1	0.070	1.8	1,000
PL-250-20-01	0.216	5.5	0.082	2.1	0.354	9.0	0.984	25.0	0.070	1.8	1,000

FR Series
Fir Tree Fasteners



Specifications:

- Material: Nylon 6/6
- Color: Black

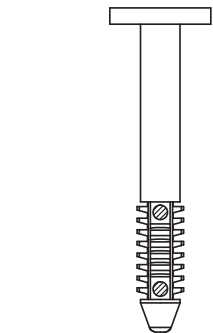
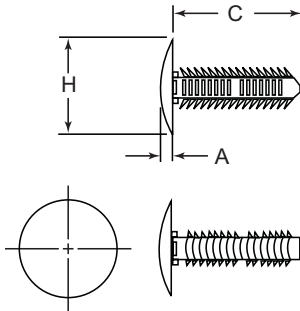
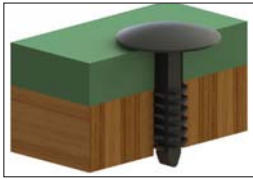
Features:

- Ideal for threaded, non-threaded, drilled or punched holes
- Suitable for wide ranges of panel thicknesses and materials

Item No.	Hole Size		Panel Thickness Range In	Head Style	H		A		C		Pack Qty.
	in	mm			in	mm	in	mm	in	mm	
FR001A	0.187	4.75	0.025/0.365	A	0.375	9.52	0.070	1.77	0.500	12.70	1,000
FR002A	0.187	4.75	0.030/0.330	B	0.435	11.04	0.068	1.72	0.562	14.27	1,000
FR003A	0.187	4.75	0.125/0.450	C	0.300	7.62	0.065	1.65	0.700	17.78	1,000
FR004A	0.250	6.35	0.105/0.300	A	0.700	17.78	0.100	2.54	0.473	12.01	1,000
FR005A	0.250	6.35	0.150/0.535	A	0.700	17.78	0.107	2.71	0.783	19.88	1,000
FR006A	0.281	7.13	0.093/0.500	A	0.625	15.87	0.110	2.79	0.890	22.61	1,000



**XT/RBF/BHF/PFP Series
Xmas Tree Clip Fastener**



Typical BHF Configurations

Specifications:

- Material: Nylon 6/6
- Color: Black
- Flame Class: UL94V-2

Features:

- Ribbed design ensures fast & easy installation while securely holding into various materials like wood, metal, foam, rubber, & plastic
- When pushed into a hole the flexible ribs deflect then spring back to lock securely in place

Item No.	Hole Dia.		Panel Thickness		H		C		A		Pack Qty.
	In	mm	In	mm	In	mm	In	mm	In	mm	
XT1250125A	0.125	3.2	0.062 - 0.125	1.6 - 3.2	0.344	8.7	0.208	5.3	0.062	1.6	1,000
XT1250250A	0.125	3.2	0.062 - 0.250	1.6 - 6.4	0.344	8.7	0.321	8.2	0.062	1.6	1,000
XT1250375A	0.125	3.2	0.062 - 0.375	1.6 - 9.5	0.344	8.7	0.458	11.6	0.062	1.6	1,000
PFP-7-01	0.139	3.5	0.250 Min.	6.4 Min.	0.400	10.2	0.280	7.1	0.050	1.3	1,000
RBF-4-8-6-8	0.157	4.0	0.080 - 0.170	2.1 - 4.3	0.315	8.0	0.339	8.6	0.039	1.0	1,000
RBF-4-8-6-12	0.157	4.0	0.080 - 0.170	2.1 - 4.3	0.472	12.0	0.339	8.6	0.059	1.5	1,000
RBF-4-8-6-16	0.157	4.0	0.080 - 0.170	2.1 - 4.3	0.630	16.0	0.339	8.6	0.079	2.0	1,000
RBF-4-11-1-8	0.157	4.0	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1,000
RBF-4-11-1-12	0.157	4.0	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1,000
RBF-4-11-1-16	0.157	4.0	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1,000
RBF-4-15-8	0.157	4.0	0.220 - 0.420	5.7 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1,000
RBF-4-15-12	0.157	4.0	0.220 - 0.420	5.7 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1,000
RBF-4-15-16	0.157	4.0	0.220 - 0.420	5.7 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1,000
BHF-1	0.187	4.8	0.035 - 0.385	0.9 - 9.8	0.435	11.0	0.560	14.2	0.070	1.8	1,000
BHF-2	0.187	4.8	0.125 - 0.475	3.2 - 12.1	0.435	11.0	0.650	16.5	0.070	1.8	1,000
BHF-3	0.187	4.8	0.425 - 0.775	10.8 - 19.7	0.435	11.0	0.950	24.1	0.070	1.8	1,000
BHF-4	0.187	4.8	0.800 - 1.150	20.3 - 29.2	0.435	11.0	1.330	33.7	0.070	1.8	1,000
RBF-4-8-8-6-8	0.188	4.8	0.080 - 0.170	2.1 - 4.3	0.315	8.0	0.339	8.6	0.039	1.0	1,000
RBF-4-8-8-6-12	0.188	4.8	0.080 - 0.170	2.1 - 4.3	0.472	12.0	0.339	8.6	0.059	1.5	1,000
RBF-4-8-8-6-16	0.188	4.8	0.080 - 0.170	2.1 - 4.3	0.630	16.0	0.339	8.6	0.079	2.0	1,000
XT1880250A	0.188	4.8	0.062 - 0.250	1.6 - 6.4	0.500	12.7	0.348	8.8	0.078	2.0	1,000
RBF-4-8-11-1-8	0.188	4.8	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1,000
RBF-4-8-11-1-12	0.188	4.8	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1,000
RBF-4-8-11-1-16	0.188	4.8	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1,000
XT1880375A	0.188	4.8	0.062 - 0.375	1.6 - 9.5	0.500	12.7	0.473	12.0	0.078	2.0	1,000
RBF-4-8-15-8	0.188	4.8	0.220 - 0.420	5.7 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1,000
RBF-4-8-15-12	0.188	4.8	0.220 - 0.420	5.7 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1,000
RBF-4-8-15-16	0.188	4.8	0.220 - 0.420	5.7 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1,000
XT1880500A	0.188	4.8	0.062 - 0.500	1.6 - 12.7	0.500	12.7	0.598	15.2	0.078	2.0	1,000
XT1880625A	0.188	4.8	0.062 - 0.625	1.6 - 15.9	0.500	12.7	0.723	18.4	0.078	2.0	1,000
XT1880750A	0.188	4.8	0.062 - 0.750	1.6 - 19.1	0.500	12.7	0.848	21.5	0.078	2.0	1,000
RBF-6-4-8-6-8	0.250	6.4	0.080 - 0.170	2.1 - 4.3	0.315	8.0	0.339	8.6	0.039	1.0	1,000
RBF-6-4-8-6-12	0.250	6.4	0.080 - 0.170	2.1 - 4.3	0.472	12.0	0.339	8.6	0.059	1.5	1,000
RBF-6-4-8-6-16	0.250	6.4	0.080 - 0.170	2.1 - 4.3	0.630	16.0	0.339	8.6	0.079	2.0	1,000
XT2500250A	0.250	6.4	0.062 - 0.250	1.6 - 6.4	0.700	17.8	0.391	9.9	0.100	2.5	1,000
RBF-6-4-11-1-8	0.250	6.4	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1,000
RBF-6-4-11-1-12	0.250	6.4	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1,000
RBF-6-4-11-1-16	0.250	6.4	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1,000
XT2500375A	0.250	6.4	0.062 - 0.375	1.6 - 9.5	0.700	17.8	0.506	12.9	0.100	2.5	1,000
BHF-5	0.250	6.4	0.035 - 0.335	0.9 - 8.5	0.650	16.5	0.590	15.1	0.070	1.8	1,000
RBF-6-4-15-8	0.250	6.4	0.220 - 0.420	5.7 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1,000
RBF-6-4-15-12	0.250	6.4	0.220 - 0.420	5.7 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1,000
RBF-6-4-15-16	0.250	6.4	0.220 - 0.420	5.7 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1,000
XT2500500A	0.250	6.4	0.062 - 0.500	1.6 - 12.7	0.700	17.8	0.630	16.0	0.100	2.5	1,000
BHF-6	0.250	6.4	0.095 - 0.395	2.4 - 10.0	0.650	16.5	0.650	16.6	0.070	1.8	1,000
XT2500625A	0.250	6.4	0.062 - 0.625	1.6 - 15.9	0.700	17.8	0.755	19.2	0.100	2.5	1,000
BHF-7	0.250	6.4	0.325 - 0.625	8.3 - 15.9	0.650	16.5	0.880	22.5	0.070	1.8	1,000
XT2500750A	0.250	6.4	0.062 - 0.750	1.6 - 19.1	0.700	17.8	0.880	22.4	0.100	2.5	1,000
XT2500875A	0.250	6.4	0.062 - 0.875	1.6 - 22.2	0.700	17.8	1.004	25.5	0.100	2.5	1,000
BHF-8	0.250	6.4	0.525 - 0.825	13.3 - 21.0	0.650	16.5	1.080	27.6	0.070	1.8	1,000
XT2501000A	0.250	6.4	0.062 - 1.000	1.6 - 25.4	0.700	17.8	1.120	28.4	0.100	2.5	1,000
XT2501250A	0.250	6.4	0.062 - 1.250	1.6 - 31.8	0.700	17.8	1.380	35.1	0.100	2.5	1,000
XT2501500A	0.250	6.4	0.062 - 1.500	1.6 - 38.1	0.700	17.8	1.632	41.5	0.100	2.5	1,000
XT2501750A	0.250	6.4	0.062 - 1.750	1.6 - 44.45	0.700	17.8	1.882	47.8	0.100	2.5	1,000
XT2502000A	0.250	6.4	0.062 - 2.000	1.6 - 50.8	0.787	20.0	2.132	54.2	0.100	2.5	1,000
XT2810250A	0.281	7.1	0.062 - 0.250	1.6 - 6.4	0.787	20.0	0.384	9.8	0.100	2.5	1,000
RBF-7-1-11-1-8	0.281	7.1	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1,000
RBF-7-1-11-1-12	0.281	7.1	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1,000
RBF-7-1-11-1-16	0.281	7.1	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1,000
XT2810375A	0.281	7.1	0.062 - 0.375	1.6 - 9.5	0.787	20.0	0.515	13.1	0.100	2.5	1,000
RBF-7-1-15-8	0.281	7.1	0.150 - 0.420	3.8 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1,000
RBF-7-1-15-12	0.281	7.1	0.150 - 0.420	3.8 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1,000
RBF-7-1-15-16	0.281	7.1	0.150 - 0.420	3.8 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1,000
XT2810500A	0.281	7.1	0.062 - 0.500	1.6 - 12.7	0.787	20.0	0.642	16.3	0.100	2.5	1,000
BHF-9	0.281	7.1	0.075 - 0.475	1.9 - 12.1	0.650	16.5	0.740	18.7	0.063	1.6	1,000
RBF-7-1-19-8	0.281	7.1	0.270 - 0.560	6.9 - 14.2	0.315	8.0	0.748	19.0	0.039	1.0	1,000
RBF-7-1-19-12	0.281	7.1	0.270 - 0.560	6.9 - 14.2	0.472	12.0	0.748	19.0	0.059	1.5	1,000
RBF-7-1-19-16	0.281	7.1	0.270 - 0.560	6.9 - 14.2	0.630	16.0	0.748	19.0	0.079	2.0	1,000
XT2810625A	0.281	7.1	0.062 - 0.625	1.6 - 15.9	0.787	20.0	0.767	19.5	0.100	2.5	1,000
XT2810750A	0.281	7.1	0.062 - 0.750	1.6 - 19.1	0.787	20.0	0.894	22.7	0.100	2.5	1,000
XT2810875A	0.281	7.1	0.062 - 0.875	1.6 - 22.2	0.787	20.0	1.021	25.9	0.100	2.5	1,000
BHF-10	0.281	7.1	0.475 - 0.875	12.1 - 22.2	0.650	16.5	1.140	28.8	0.063	1.6	1,000
XT2811000A	0.281	7.1	0.062 - 1.000	1.6 - 25.4	0.787	20.0	1.147	29.1	0.100	2.5	1,000
BHF-11	0.281	7.1	0.075 - 1.025	1.9 - 26.0	0.650	16.5	1.280	32.6	0.063	1.6	1,000
XT2811250A	0.281	7.1	0.062 - 1.250	1.6 - 31.8	0.787	20.0	1.401	35.6	0.100	2.5	1,000
BHF-12	0.281	7.1	0.275 - 1.225	7.0 - 31.1	0.650	16.5	1.480	37.7	0.063	1.6	1,000
XT2811500A	0.281	7.1	0.062 - 1.500	1.6 - 38.1	0.787	20.0	1.651	41.9	0.100	2.5	1,000
BHF-13	0.281	7.1	0.575 - 1.525	14.6 - 38.7	0.650	16.5	1.780	45.3	0.063	1.6	1,000
XT2811750A	0.281	7.1	0.062 - 1.750	1.6 - 44.5	0.787	20.0	1.901	48.3	0.100	2.5	1,000
BHF-14	0.281	7.1	0.775 - 1.725	19.7 - 43.8	0.650	16.5	2.000	50.8	0.063	1.6	1,000
XT2812000A	0.281	7.1	0.062 - 2.000	1.6 - 50.8	0.787	20.0	2.153	54.7	0.100	2.5	1,000
XT3120250A	0.312	7.9	0.062 - 0.250	1.6 - 6.35	0.874	22.2	0.410	10.4	0.100	2.5	1,000
XT3120375A	0.312	7.9	0.062 - 0.375	1.6 - 9.53	0.874	22.2	0.529	13.4	0.100	2.5	1,000
XT3120625A	0.312	7.9	0.062 - 0.625	1.6 - 15.9	0.874	22.2	0.783	19.9	0.100	2.5	1,000
XT3120750A	0.312	7.9	0.062 - 0.750	1.6 - 19.1	0.874	22.2	0.894	22.7	0.100	2.5	1,000
XT3120875A	0.312	7.9	0.062 - 0.875	1.6 - 22.2	0.874	22.2	1.036	26.3	0.100	2.5	1,000

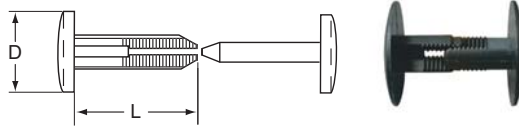


FASTENERS

RATCHET FASTENERS

Buy One or Buy Bulk & SAVE

SRR/BR Series Ratchet Fasteners



Specifications:

- Material: Nylon 6/6
- Color: Natural & Black

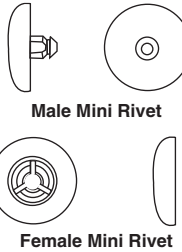
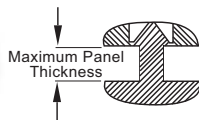
Features:

- Quick to install
- Interlocking teeth provide strong locking capability

Item No.		D	L	Hole		Pack
Natural	Black	(ref)	(ref)	Dia	Grip Range	Qty.
SRR0100A	SRR0100B	0.375	0.500	0.250	.500-.812	1,000
SRR0200A	SRR0200B	0.375	0.750	0.250	.780-1.375	1,000
SRR0300A	SRR0300B	0.625	0.500	0.250	.500-.812	1,000
SRR0400A	SRR0400B	0.625	0.750	0.250	.780-1.375	1,000
SRR0500A	SRR0500B	0.375	0.218	0.250	.235-.297	1,000
SRR0600A	SRR0600B	0.375	0.343	0.250	.346-.500	1,000
SRR0700A	SRR0700B	0.625	0.218	0.250	.235-.297	1,000
SRR0800A	SRR0800B	0.625	0.343	0.250	.346-.500	1,000

Item No.		D	L	Hole		Pack
Natural	Black	(ref)	(ref)	Dia	Grip Range	Qty.
BR2-226-01	BR2-226-01BK	0.406	0.226	0.281	.235-.297	1,000
BR2-344-01	BR2-344-01BK	0.406	0.343	0.281	.346-.500	1,000
BR2-488-01	BR2-488-01BK	0.406	0.500	0.281	.500-.812	1,000
BR2-768-01	BR2-768-01BK	0.406	0.750	0.281	.781-1.375	1,000
BR1-226-01	BR1-226-01BK	0.750	0.226	0.281	.235-.297	1,000
BR1-344-01	BR1-344-01BK	0.750	0.344	0.281	.346-.500	1,000
BR1-488-01	BR1-488-01BK	0.750	0.488	0.281	.500-.812	1,000
BR1-768-01	BR1-768-01BK	0.750	0.768	0.281	.781-1.375	1,000

RM/MBRR - MBRP Series Mini Rivets



Specifications:

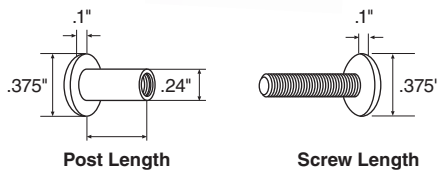
- Material: Nylon 6/6
- Color: Natural and Black

Features:

- Quick to install by simply pressing together
- Male and female parts sold separately
- Ideal for outdoor environments
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.		Material	Material UL Rating	Hole Dia	Max Panel Thickness	Head Dia	Head thickness	Mating Part	Pack Qty.		
Natural	Black			in	mm	in	mm				
Male											
RM110A	RM110B	Nylon 6/6	UL94 V-2	0.094	2.4	0.02	0.51	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
RM120A	RM120B	Nylon 6/6	UL94 V-2	0.094	2.4	0.032	0.81	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
RM130A	RM130B	Nylon 6/6	UL94 V-2	0.094	2.4	0.045	1.14	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
RM140A	RM140B	Nylon 6/6	UL94 V-2	0.094	2.4	0.062	1.57	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
RM150A	RM150B	Nylon 6/6	UL94 V-2	0.094	2.4	0.075	1.57	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
RM160A	RM160B	Nylon 6/6	UL94 V-2	0.094	2.4	0.09	1.57	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
RM170A	RM170B	Nylon 6/6	UL94 V-2	0.094	2.4	0.125	3.18	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
RM180A	RM180B	Nylon 6/6	UL94 V-2	0.094	2.4	0.312	3.18	0.375 9.5	0.075 1.9	RM100A or RM100B	1000
Female											
RM100A	RM100B	Nylon 6/6	UL94 V-2	-	-	-	-	0.375 9.5	0.075 1.9	RM1XXA or RM1XXB	1000
Male											
MBRP1-030-01	MBRP1-030-01BK	Nylon 6/6	UL94 V-2	0.125	3.2	0.03	0.8	0.4 10.2	0.09 2.3	MBRR1-01 or MBRR1-01BK	1000
RM220A	RM220B	Nylon 6/6	UL94 V-2	0.125	3.2	0.045	1.1	0.5 12.7	0.1 2.5	RM200A or RM200B	1000
MBRP1-062-01	MBRP1-062-01BK	Nylon 6/6	UL94 V-2	0.125	3.2	0.062	1.6	0.4 10.2	0.09 2.3	MBRR1-01 or MBRR1-01BK	1000
MBRP1-100-01	MBRP1-100-01BK	Nylon 6/6	UL94 V-2	0.125	3.2	0.1	2.5	0.4 10.2	0.09 2.3	MBRR1-01 or MBRR1-01BK	1000
MBRP1-125-01	MBRP1-125-01BK	Nylon 6/6	UL94 V-2	0.125	3.2	0.125	3.2	0.4 10.2	0.09 2.3	MBRR1-01 or MBRR1-01BK	1000
RM260A	RM260B	Nylon 6/6	UL94 V-2	0.125	3.2	0.143	3.6	0.5 12.7	0.1 2.5	RM200A or RM200B	1000
MBRP1-187-01	MBRP1-187-01BK	Nylon 6/6	UL94 V-2	0.125	3.2	0.187	4.8	0.4 10.2	0.09 2.3	MBRR1-01 or MBRR1-01BK	1000
MBRP1-250-01	MBRP1-250-01BK	Nylon 6/6	UL94 V-2	0.125	3.2	0.25	6.4	0.4 10.2	0.09 2.3	MBRR1-01 or MBRR1-01BK	1000
RM280A	RM280B	Nylon 6/6	UL94 V-2	0.125	3.2	0.325	8.3	0.5 12.7	0.1 2.5	RM200A or RM200B	1000
Female											
MBRR1-01	MBRR1-01BK	Nylon 6/6	UL94 V-2	-	-	-	-	0.4 10.2	0.1 2.5	MBRP1-XXX or RM	1000
RM200A	RM200B	Nylon 6/6	UL94 V-2	-	-	-	-	0.5 12.7	0.1 2.5	RM2XXA or RM2XXB	1000

BS Series Book Screws



Specifications:

- Material: Nylon 6/6 & Post – HDPE
- Color: White and Black

Features:

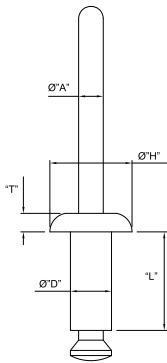
- Supplied in sets of posts and screws
- Head diameter of 3/8"

Item No.		Post Length		Pack Qty.
White	Black	In	mm	
BS0187A	BS0187B	0.187	4.76	1,000
BS0250A	BS0250B	0.250	6.35	1,000
BS0375A	BS0375B	0.375	9.53	1,000
BS0500A	BS0500B	0.500	12.70	1,000
BS0750A	BS0750B	0.750	19.05	1,000
BS0875A	BS0875B	0.875	22.23	1,000

Item No.		Post Length		Pack Qty.
White	Black	In	mm	
BS1000A	BS1000B	1.000	25.40	1,000
BS1250A	BS1250B	1.250	31.75	1,000
BS1375A	BS1375B	1.375	34.93	1,000
BS1500A	BS1500B	1.500	38.10	1,000
BS1750A	BS1750B	1.750	44.45	1,000
BS2000A	BS2000B	2.000	50.80	1,000



CR
Expansion Blind Rivet



Specifications:

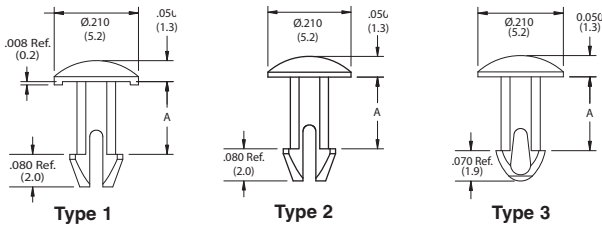
- Material: Rivet; Nylon 6/6, Mandrel; Polycarbonate
- Color: Black; Mandrel: Clear

Features:

- Set without the need for access to back of panel
- Set by pulling the mandrel head into the rivet body, expanding the rivet body and causing it to flare against the reverse side
- When sufficient force is applied, the mandrel will snap at its break point
- Installed with a pop rivet installation tool (not offered)

Item No.	Hole Ø	Panel Thickness	Ø "D"	"L"	Ø "H"	"T"	Ø "A"	Pack Qty.
CR32-1-1	.13 (3.3)	.04 - .16 (1 - 4)	.13 (3.2)	.25 (6.4)	.25 (6.4)	.06 (1.4)	.08 (2.1)	1,000
CR32-2-1	.13 (3.3)	.16 - .28 (4 - 7)	.13 (3.2)	.38 (9.6)	.25 (6.4)	.06 (1.4)	.08 (2.1)	1,000
CR32-3-1	.13 (3.3)	.28 - .39 (7 - 10)	.13 (3.2)	.50 (12.7)	.25 (6.4)	.06 (1.4)	.08 (2.1)	1,000
CR40-1-1	.16 (4.1)	.04 - .16 (1 - 4)	.16 (4)	.25 (6.4)	.31 (8)	.07 (1.8)	.09 (2.4)	1,000
CR40-2-1	.16 (4.1)	.16 - .28 (4 - 7)	.16 (4)	.38 (9.6)	.31 (8)	.07 (1.8)	.09 (2.4)	1,000
CR40-3-1	.16 (4.1)	.28 - .39 (7 - 10)	.16 (4)	.50 (12.7)	.31 (8)	.07 (1.8)	.09 (2.4)	1,000
CR48-1-1	.19 (4.9)	.06 - .20 (1.5 - 5)	.19 (4.8)	.31 (8)	.38 (9.6)	.08 (2)	.11 (2.8)	500
CR48-2-1	.19 (4.9)	.20 - .31 (5 - 8)	.19 (4.8)	.44 (11.2)	.38 (9.6)	.08 (2)	.11 (2.8)	500
CR48-3-1	.19 (4.9)	.31 - .43 (8 - 11)	.19 (4.8)	.57 (14.4)	.38 (9.6)	.08 (2)	.11 (2.8)	500
CR56-1-1	.22 (5.7)	.08 - .22 (2 - 5.5)	.22 (5.6)	.38 (9.6)	.47 (12)	.09 (2.2)	.13 (3.4)	500
CR56-2-1	.22 (5.7)	.22 - .33 (5.5 - 8.5)	.22 (5.6)	.50 (12.7)	.47 (12)	.09 (2.2)	.13 (3.4)	500
CR56-3-1	.22 (5.7)	.33 - .47 (8.5 - 12)	.22 (5.6)	.63 (15.9)	.47 (12)	.09 (2.2)	.13 (3.4)	500

SLP Series
Snap Lock Pin

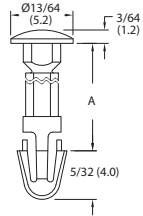


Specifications:

- Material: Nylon 6/6
- Color: Natural

Item No.	Hole Dia.			Panel Thickness		Head Dia.		Head Thickness A		Pack Qty.	
	Type 1	Type 2	Type 3	in	mm	in	mm	in	mm		
SLP100-177-01	SLP-1-177-01	SLP-2-177-01	0.098	2.5	0.177	4.5	0.210	5.3	0.050	1.3	1,000
SLP100-221-01	SLP-1-221-01	SLP-2-221-01	0.098	2.5	0.221	5.6	0.210	5.3	0.050	1.3	1,000
SLP100-236-01	SLP-1-236-01	SLP-2-236-01	0.098	2.5	0.236	6.0	0.210	5.3	0.050	1.3	1,000
SLP100-245-01	SLP-1-245-01	SLP-2-245-01	0.098	2.5	0.245	6.2	0.210	5.3	0.050	1.3	1,000
SLP100-307-01	SLP-1-307-01	SLP-2-307-01	0.098	2.5	0.307	7.8	0.210	5.3	0.050	1.3	1,000
SLP100-316-01	SLP-1-316-01	SLP-2-316-01	0.098	2.5	0.316	8.0	0.210	5.3	0.050	1.3	1,000
SLP100-330-01	SLP-1-330-01	SLP-2-330-01	0.098	2.5	0.33	8.4	0.210	5.3	0.050	1.3	1,000
SLP100-413-01	SLP-1-413-01	SLP-2-413-01	0.098	2.5	0.413	10.5	0.210	5.3	0.050	1.3	1,000
SLP100-638-01	SLP-1-638-01	SLP-2-638-01	0.098	2.5	0.638	16.2	0.210	5.3	0.050	1.3	1,000
—	SLP125-187-01	—	0.125	3.2	0.187	4.7	0.200	5.1	0.050	1.3	1,000

SLPA Series
Snap Lock Pin with Arrowhead



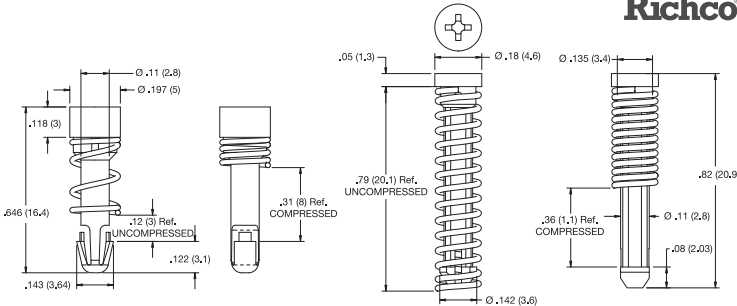
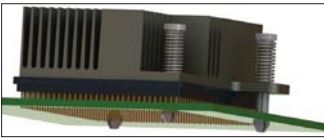
Specifications:

- Material: Nylon 6/6
- Color: Natural
- Flame Class: UL94V-2



Item No.	Hole Dia.		A		Pack Qty.
	in	mm	in	mm	
SLPA125-187-01	0.125	3.2	0.187	4.7	1,000
SLPA125-250-01	0.125	3.2	0.250	6.4	1,000
SLPA125-312-01	0.125	3.2	0.312	7.9	1,000
SLPA125-375-01	0.125	3.2	0.375	9.5	1,000
SLPA125-500-01	0.125	3.2	0.500	12.7	1,000
SLPA125-625-01	0.125	3.2	0.625	15.9	1,000
SLPA125-750-01	0.125	3.2	0.750	19.1	1,000

HSR
Heat Sink Spring Mount Rivet



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

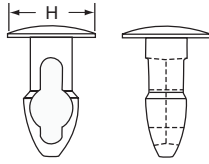
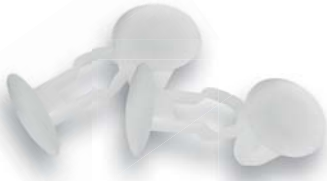
- Fastens a heat sink to a processor chip on a PCB
- The spring provides continuous pressure to the heat sink until thermal adhesive cures
- HSR-2 can be installed by using a phillips head screwdriver



Item No.	Heat Sink Hole Ø	PCB Hole Ø	Spring Material	Pack Qty.
HSR-1	.125 - .157 (3.18 - 4)	.118 (3)	Spring Steel, Chrome Plating	1,000
HSR-2	.120 - .140 (3.05 - 3.5)	.122 (3.1)	Stainless Steel	1,000



KHC Series Key Hole Clips



Specifications:

- Material: Nylon
- Color: Natural

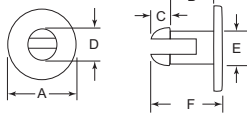
Features:

- Used to attach panels
- Easily assembled
- Ideal for outdoor environments
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	H		Panel		Pack Qty.
	Head Diameter	Hole Size	Thickness	Thickness	
KHC100A	0.250	0.125	0.093	1,000	
KHC105A	0.250	0.125	0.125	1,000	
KHC110A	0.250	0.125	0.156	1,000	
KHC115A	0.250	0.125	0.188	1,000	
KHC120A	0.250	0.125	0.219	1,000	
KHC125A	0.250	0.125	0.250	1,000	
KHC135A	0.312	0.156	0.093	1,000	
KHC140A	0.312	0.156	0.125	1,000	
KHC145A	0.312	0.156	0.156	1,000	
KHC150A	0.312	0.156	0.187	1,000	
KHC155A	0.312	0.156	0.218	1,000	
KHC160A	0.312	0.156	0.250	1,000	
KHC165A	0.312	0.156	0.281	1,000	
KHC170A	0.312	0.156	0.312	1,000	
KHC175A	0.312	0.156	0.343	1,000	
KHC180A	0.312	0.156	0.375	1,000	
KHC185A	0.312	0.187	0.093	1,000	
KHC190A	0.312	0.187	0.125	1,000	
KHC195A	0.312	0.187	0.156	1,000	
KHC200A	0.312	0.187	0.187	1,000	
KHC205A	0.312	0.187	0.219	1,000	
KHC210A	0.312	0.187	0.250	1,000	
KHC215A	0.312	0.187	0.281	1,000	
KHC220A	0.312	0.187	0.312	1,000	
KHC225A	0.312	0.187	0.344	1,000	

Item No.	H		Panel		Pack Qty.
	Head Diameter	Hole Size	Thickness	Thickness	
KHC230A	0.312	0.187	0.375	1,000	
KHC235A	0.343	0.219	0.093	1,000	
KHC240A	0.343	0.219	0.125	1,000	
KHC245A	0.343	0.219	0.156	1,000	
KHC250A	0.343	0.219	0.187	1,000	
KHC255A	0.343	0.219	0.291	1,000	
KHC260A	0.343	0.219	0.250	1,000	
KHC265A	0.343	0.219	0.281	1,000	
KHC270A	0.343	0.219	0.312	1,000	
KHC275A	0.344	0.219	0.343	1,000	
KHC280A	0.344	0.219	0.375	1,000	
KHC295A	0.500	0.250	0.093	1,000	
KHC300A	0.500	0.250	0.125	1,000	
KHC305A	0.500	0.250	0.156	1,000	
KHC310A	0.500	0.250	0.187	1,000	
KHC315A	0.500	0.250	0.219	1,000	
KHC320A	0.500	0.250	0.250	1,000	
KHC325A	0.500	0.250	0.281	1,000	
KHC330A	0.500	0.250	0.312	1,000	
KHC335A	0.500	0.250	0.343	1,000	
KHC340A	0.500	0.250	0.375	1,000	
KHC345A	0.500	0.250	0.406	1,000	
KHC350A	0.500	0.250	0.437	1,000	
KHC355A	0.500	0.250	0.468	1,000	
KHC360A	0.500	0.250	0.500	1,000	

PIF Series Push In Fasteners



Specifications:

- Material: Nylon
- Color: Natural

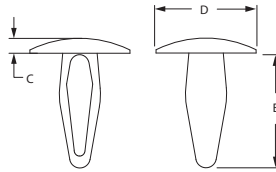
Features:

- Used to attach panels
- Easily assembled
- Ideal for outdoor environments
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Head Diameter A		Panel Thickness B		Head		Hole Size Range (E-D)				Overall Length F (In)	Pack Qty.
	In	mm	In	mm	Thickness (In)	C (In)	E (In)	E (mm)	D (In)	D (mm)		
PIF010A	0.250	6.35	0.115	2.92	0.115	0.085	.093	2.36	.145	3.68	0.240	1,000
PIF020A	0.203	5.16	0.156	3.96	0.168	0.135	.115	2.92	.140	3.56	0.303	1,000
PIF030A	0.203	5.16	0.121	3.07	0.161	0.125	.115	2.92	.140	3.56	0.286	1,000
PIF040A	0.234	5.94	0.320	8.13	0.353	0.084	.118	3.00	.145	3.68	0.437	1,000
PIF050A	0.203	5.16	0.190	4.83	0.230	0.090	.130	3.30	.180	4.57	0.320	1,000
PIF060A	0.275	6.99	0.403	10.24	0.504	0.113	.135	3.42	.160	4.06	0.617	1,000
PIF070A	0.420	10.67	0.425	10.80	0.510	0.213	.135	3.42	.160	4.06	0.723	1,000
PIF080A	0.375	9.53	0.265	6.73	0.330	0.130	.155	3.94	.210	5.33	0.460	1,000
PIF090A	0.391	9.93	0.315	8.00	0.367	0.113	.157	3.99	.208	5.28	0.480	1,000
PIF100A	0.343	8.71	0.133	3.38	0.173	0.137	.165	4.19	.202	5.13	0.310	1,000
PIF110A	0.344	8.74	0.065	1.65	0.188	0.137	.165	4.19	.202	5.13	0.325	1,000
PIF120A	0.332	8.43	0.340	8.64	0.412	0.174	.170	4.32	.250	6.35	0.586	1,000
PIF130A	0.343	8.71	0.250	6.35	0.310	0.174	.180	4.57	.224	5.69	0.484	1,000
PIF140A	0.345	8.76	0.550	13.97	0.620	0.155	.180	4.57	.225	5.72	0.775	1,000
PIF150A	0.469	11.91	0.121	3.96	0.171	0.153	.200	5.08	.240	6.10	0.324	1,000
PIF160A	0.468	11.89	0.156	3.96	0.206	0.153	.200	5.08	.228	5.79	0.359	1,000
PIF170A	0.343	8.71	0.375	9.53	0.415	0.137	.200	5.08	.236	5.99	0.552	1,000
PIF180A	0.469	11.91	0.237	6.02	0.285	0.150	.200	5.08	.238	6.05	0.435	1,000
PIF190A	0.406	10.31	0.250	6.35	0.255	0.150	.218	5.54	.283	7.19	0.405	1,000
PIF200A	0.453	11.51	0.276	7.01	0.318	0.187	.240	6.10	.295	7.49	0.505	1,000
PIF210A	0.593	15.06	0.480	12.19	0.54	0.187	.240	6.10	.295	7.49	0.727	1,000
PIF220A	0.593	15.06	0.250	6.35	0.310	0.187	.240	6.10	.295	7.49	0.497	1,000
PIF230A	0.593	15.06	0.375	9.52	0.435	0.187	.240	6.10	.295	7.49	0.622	1,000
PIF240A	0.453	11.51	0.270	6.86	0.328	0.187	.240	6.10	.295	7.49	0.515	1,000
PIF250A	0.500	12.70	0.098	2.49	0.154	0.169	.244	6.20	.280	7.11	0.323	1,000
PIF260A	0.594	15.09	0.365	9.27	0.498	0.187	.245	6.22	.295	7.49	0.685	1,000
PIF270A	0.500	12.70	0.700	17.78	0.780	0.200	.245	6.22	.340	8.64	0.980	1,000
PIF280A	0.375	9.53	0.875	22.23	0.937	0.245	.246	6.25	.284	7.21	1.182	1,000
PIF290A	0.375	9.53	0.875	22.23	0.937	0.250	.250	6.35	.312	7.92	1.187	1,000
PIF300A	0.593	15.06	0.171	4.34	0.231	0.187	.260	6.60	.295	7.49	0.418	1,000
PIF310A	0.406	10.31	0.890	22.61	0.955	0.060	.260	6.60	.340	8.64	1.015	1,000
PIF320A	0.594	15.09	0.405	10.29	0.160	0.460	.275	6.99	.315	8.00	0.620	1,000
PIF330A	0.500	12.70	1.000	25.40	0.765	0.375	.345	8.76	.450	11.43	1.140	1,000



**MMB Series
Mini Mounting Button**

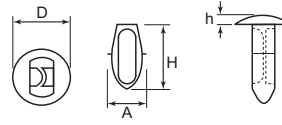
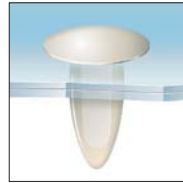


Specifications:

- Material: Nylon 6/6
- Color: Black or Natural
- Flame Class: UL94V-2

Item No.	Hole Dia.		Panel Thickness		Ø D		C		E		Pack Qty.	
	Black	Natural	in	mm	in	mm	in	mm	in	mm		
MMB-125-01BK	MMB-125-01	0.125	3.18	0.080 - 0.100	2.0 - 2.5	0.270	6.9	0.040	1.0	0.330	8.4	1000
MMB-130-01BK	MMB-130-01	0.132	3.35	0.060 - 0.130	1.6 - 3.2	0.280	7.1	0.060	1.5	0.390	9.9	1000
MMB-136-01BK	MMB-136-01	0.136	3.45	0.120 - 0.160	2.9 - 4.0	0.410	10.3	0.070	1.7	0.440	11.1	1000
MMB-187-01BK	MMB-187-01	0.187	4.75	0.100 - 0.160	2.5 - 4.0	0.500	12.7	0.090	2.2	0.430	10.9	1000
MMB-210-01BK	MMB-210-01	0.210	5.33	0.100 - 0.160	2.5 - 4.0	0.551	14.0	0.118	3.0	0.551	14.0	1000
MMB-132-01BK	MMB-132-01	0.215	5.46	0.060 - 0.130	1.6 - 3.2	0.370	9.4	0.060	1.5	0.450	11.5	1000
MMB-250-01BK	MMB-250-01	0.250	6.35	0.100 - 0.220	2.5 - 5.6	0.500	12.7	0.090	2.2	0.640	16.3	1000

**ARW Series
Arrow Clips**



Specifications:

- Material: Nylon 6/6
- Color: Natural

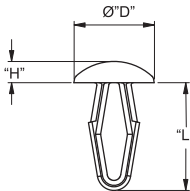
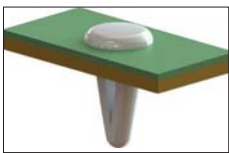
Features:

- Push down to install

Item No.	D	h	H	A	Hole Dia.	Panel Thickness Range (In)	Pack Qty.
	In	In	In	In	In		
ARW010A	0.100	0.020	0.125	0.068	0.062 - 0.065	.010 - .031	1,000
ARW020A	0.270	0.040	0.33	0.140	0.120 - 0.135	.062 - .125	1,000
ARW030A	0.280	0.040	0.390	0.196	0.151 - 0.161	.062 - .125	1,000
ARW040A	0.280	0.080	0.400	0.180	0.151 - 0.161	.062 - .145	1,000
ARW050A	0.360	0.060	0.400	0.225	0.182 - 0.192	.062 - .125	1,000
ARW060A	0.370	0.060	0.540	0.225	0.182 - 0.192	.310 - .330	1,000
ARW070A	0.375	0.060	0.525	0.206	0.182 - 0.192	.165 - .185	1,000

Item No.	D	h	H	A	Hole Dia.	Panel Thickness Range (In)	Pack Qty.
	In	In	In	In	In		
ARW080A	0.270	0.070	0.528	0.202	0.182 - 0.192	.200 - .250	1,000
ARW090A	0.370	0.060	0.450	0.248	0.213 - 0.223	.125 - .187	1,000
ARW100A	0.370	0.060	0.540	0.227	0.213 - 0.223	.062 - .125	1,000
ARW110A	0.750	0.055	0.632	0.281	0.240 - 0.260	.095 - .218	1,000
ARW120A	0.484	0.060	0.575	0.290	0.250 - 0.261	.125 - .187	1,000
ARW130A	0.615	0.065	0.810	0.286	0.250 - 0.262	.360 - .380	1,000
ARW140A	0.610	0.068	1.135	0.287	0.250 - 0.263	.500 - .750	1,000

**DF Series
Drive Fastener**



Specifications:

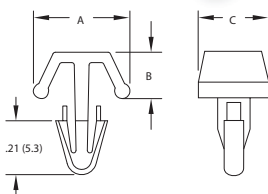
- Color: Natural

Features:

- Multi-purpose front loaded fastener
- Can be used as a decorative hole plug
- Inserts easily by hand
- Hollow body increases flexibility for ease of insertion and removal

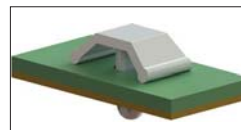
Item No.	Item No.	Hole Ø	Total Holding Thickness	"D" Ø	"H"	"L" Ref.	Pack Qty.
Material: UL94 HB Acetal	Material: UL94 V-0 Nylon 6/6						
DF-137-010	DFVO-137-010	.126 (3.2)	.039 - .177 (1 - 4.5)	.315 (8)	.059 (1.5)	.512 (13)	1,000
DF-137-020	DFVO-137-020	.153 (3.9)	.039 - .197 (1 - 5)	.354 (9)	.063 (1.6)	.551 (14)	1,000
DF-137-030	DFVO-137-030	.185 (4.7)	.039 - .216 (1 - 5.5)	.394 (10)	.067 (1.7)	.590 (15)	1,000
DF-137-031	DFVO-137-031	.185 (4.7)	.039 - .216 (1 - 5.5)	.433 (11)	.114 (2.9)	.590 (15)	1,000
DF-137-040	DFVO-137-040	.252 (6.4)	.059 - .256 (1.5 - 6.5)	.472 (12)	.079 (2)	.669 (17)	1,000
DF-137-050	DFVO-137-050	.307 (7.8)	.059 - .275 (1.5 - 7)	.551 (14)	.087 (2.2)	.748 (19)	1,000
DF-137-060	DFVO-137-060	.216 (5.5)	.236 - .354 (6 - 9)	.472 (12)	.079 (2)	.689 (17.5)	1,000

**MB Series
Mounting Button**



Specifications:

- Material: Nylon 6/6
- Color: Natural
- Flame Class: UL94V-2



Item No.	Hole Diameter		Panel Thickness		A Ref.		B Ref.		C		Pack Qty.
	In	mm	In	mm	In	mm	In	mm	In	mm	
MB-1-156	0.156	4.0	0.031 - 0.093	0.8 - 2.4	0.391	9.9	0.188	4.8	0.310	7.9	1,000
MB-3-156	0.156	4.0	0.093 - 0.156	2.4 - 4.0	0.391	9.9	0.188	4.8	0.310	7.9	1,000
MB-5-156	0.156	4.0	0.156 - 0.219	4.0 - 5.6	0.391	9.9	0.188	4.8	0.310	7.9	1,000
MB-7-156	0.156	4.0	0.219 - 0.281	5.6 - 7.1	0.391	9.9	0.188	4.8	0.310	7.9	1,000
MB-9-156	0.156	4.0	0.281 - 0.343	7.1 - 8.7	0.391	9.9	0.188	4.8	0.310	7.9	1,000
MB-11-156	0.156	4.0	0.343 - 0.406	8.7 - 10.3	0.391	9.9	0.188	4.8	0.310	7.9	1,000
MB-1-187	0.187	4.8	0.031 - 0.093	0.8 - 2.4	0.484	12.3	0.188	4.8	0.310	7.9	1,000
MB-3-187	0.187	4.8	0.093 - 0.156	2.4 - 4.0	0.484	12.3	0.188	4.8	0.310	7.9	1,000
MB-5-187	0.187	4.8	0.156 - 0.219	4.0 - 5.6	0.484	12.3	0.188	4.8	0.310	7.9	1,000
MB-7-187	0.187	4.8	0.219 - 0.281	5.6 - 7.1	0.484	12.3	0.188	4.8	0.310	7.9	1,000
MB-9-187	0.187	4.8	0.281 - 0.343	7.1 - 8.7	0.484	12.3	0.188	4.8	0.310	7.9	1,000
MB-11-187	0.187	4.8	0.343 - 0.406	8.7 - 10.3	0.484	12.3	0.188	4.8	0.310	7.9	1,000





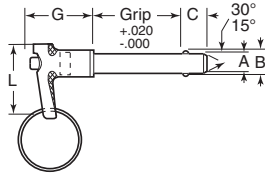
QUICK RELEASE BALL LOCK PINS

Buy One or Buy Bulk & SAVE

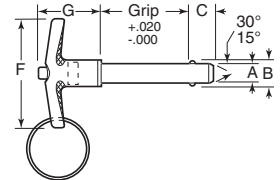
Quick Release Ball Lock Pins
Stainless Steel
T-Handle and L-Handles
Industrial Grade



L-Handle



T-Handle



Nom.	A (Dia.)		±.005		-.030		F	L	G	Pull Out Strength (Lbs.)	Calculated Double Shear Strength (Lbs.)
	Max.	Min.	B	C	Max.	Max.					
3/16	.1885	.1870	.220	.260	1.813	1.75	1.250	200	5,150		
1/4	.2485	.2470	.289	.290	1.813	1.75	1.250	230	9,200		
5/16	.3110	.3095	.375	.330	1.813	1.75	1.250	510	14,400		
3/8	.3735	.3720	.440	.365	2.000	2.00	1.438	575	20,700		
7/16	.4360	.4345	.509	.380	2.000	2.00	1.438	710	28,500		
1/2	.4985	.4970	.594	.460	2.000	2.25	1.625	1160	36,900		
9/16	.5610	.5595	.666	.510	2.375	2.25	1.625	1420	46,700		
5/8	.6235	.6220	.750	.580	3.125	2.50	1.969	2070	57,800		
3/4	.7485	.7470	.887	.670	3.125	2.50	1.969	2950	83,200		
7/8	.8735	.8720	1.046	.760	3.500	3.25	2.250	3900	112,500		
1	.9985	.9970	1.209	.890	3.500	3.25	3.250	5480	147,200		

These industrial grade quick release pins provide positive locking for all types of applications and equipment. Pins will not release until the button is pushed, causing the balls at the end of the pin to retract for insertion and removal of the pin. Release the button and the balls are pushed out to lock the pin in place. Produced to tight tolerances and designed to withstand severe application conditions, these pins are the highest quality and strongest ones on the market today. The handle is black cast aluminum and the button is blue anodized aluminum. Pins are 17-4-PH heat treated stainless steel for highest strength, corrosion and scratch resistance.

For less demanding applications, we offer a commercial line of button handle and T-handle ball lock pins in popular sizes on page 743.

L-Handle		T-Handle		Pack Qty.	L-Handle		T-Handle		Pack Qty.
Item No.	Item No.	Nom. Dia.	Grip Lgth.		Item No.	Item No.	Nom. Dia.	Grip Lgth.	
BLLS-000A	BLTS-000A	3/16	.50	1	BLLS-109A	BLTS-109A	7/16	4.00	1
BLLS-001A	BLTS-001A	3/16	1.00	1	BLLS-110A	BLTS-110A	1/2	1.00	1
BLLS-002A	BLTS-002A	3/16	1.50	1	BLLS-112A	BLTS-112A	1/2	1.25	1
BLLS-004A	BLTS-004A	3/16	2.00	1	BLLS-120A	BLTS-120A	1/2	1.50	1
BLLS-005A	BLTS-005A	3/16	2.50	1	BLLS-125A	BLTS-125A	1/2	1.75	1
BLLS-006A	BLTS-006A	3/16	3.00	1	BLLS-130A	BLTS-130A	1/2	2.00	1
BLLS-008A	BLTS-008A	3/16	4.00	1	BLLS-135A	BLTS-135A	1/2	2.50	1
BLLS-009A	BLTS-009A	1/4	.50	1	BLLS-140A	BLTS-140A	1/2	3.00	1
BLLS-010A	BLTS-010A	1/4	1.00	1	BLLS-150A	BLTS-150A	1/2	4.00	1
BLLS-020A	BLTS-020A	1/4	1.50	1	BLLS-160A	BLTS-160A	1/2	5.00	1
BLLS-030A	BLTS-030A	1/4	2.00	1	BLLS-170A	BLTS-170A	1/2	6.00	1
BLLS-035A	BLTS-035A	1/4	2.50	1	BLLS-174A	BLTS-174A	9/16	2.00	1
BLLS-040A	BLTS-040A	1/4	3.00	1	BLLS-175A	BLTS-175A	9/16	2.50	1
BLLS-050A	BLTS-050A	1/4	4.00	1	BLLS-176A	BLTS-176A	9/16	3.00	1
BLLS-401A	BLTS-401A	5/16	.50	1	BLLS-178A	BLTS-178A	5/8	1.00	1
BLLS-051A	BLTS-051A	5/16	1.00	1	BLLS-179A	BLTS-179A	5/8	1.50	1
BLLS-052A	BLTS-052A	5/16	1.50	1	BLLS-180A	BLTS-180A	5/8	2.00	1
BLLS-053A	BLTS-053A	5/16	2.00	1	BLLS-190A	BLTS-190A	5/8	2.50	1
BLLS-054A	BLTS-054A	5/16	2.50	1	BLLS-200A	BLTS-200A	5/8	3.00	1
BLLS-055A	BLTS-055A	5/16	3.00	1	BLLS-220A	BLTS-220A	5/8	4.00	1
BLLS-056A	BLTS-056A	5/16	4.00	1	BLLS-230A	BLTS-230A	5/8	5.00	1
BLLS-057A	BLTS-057A	5/16	5.00	1	BLLS-240A	BLTS-240A	5/8	6.00	1
BLLS-058A	BLTS-058A	5/16	6.00	1	BLLS-245A	BLTS-245A	3/4	1.50	1
BLLS-059A	BLTS-059A	3/8	.50	1	BLLS-250A	BLTS-250A	3/4	2.00	1
BLLS-060A	BLTS-060A	3/8	1.00	1	BLLS-260A	BLTS-260A	3/4	2.50	1
BLLS-065A	BLTS-065A	3/8	1.25	1	BLLS-270A	BLTS-270A	3/4	3.00	1
BLLS-070A	BLTS-070A	3/8	1.50	1	BLLS-290A	BLTS-290A	3/4	4.00	1
BLLS-075A	BLTS-075A	3/8	1.75	1	BLLS-300A	BLTS-300A	3/4	5.00	1
BLLS-080A	BLTS-080A	3/8	2.00	1	BLLS-310A	BLTS-310A	3/4	6.00	1
BLLS-085A	BLTS-085A	3/8	2.50	1	BLLS-320A	BLTS-320A	7/8	3.00	1
BLLS-090A	BLTS-090A	3/8	3.00	1	BLLS-330A	BLTS-330A	7/8	4.00	1
BLLS-100A	BLTS-100A	3/8	4.00	1	BLLS-332A	BLTS-332A	7/8	6.00	1
BLLS-102A	BLTS-102A	3/8	5.00	1	BLLS-340A	BLTS-340A	1	2.00	1
BLLS-104A	BLTS-104A	3/8	6.00	1	BLLS-345A	BLTS-345A	1	2.50	1
BLLS-105A	BLTS-105A	7/16	1.00	1	BLLS-350A	BLTS-350A	1	3.00	1
BLLS-1055A	BLTS-1055A	7/16	1.50	1	BLLS-360A	BLTS-360A	1	4.00	1
BLLS-106A	BLTS-106A	7/16	2.00	1	BLLS-365A	BLTS-365A	1	5.00	1
BLLS-107A	BLTS-107A	7/16	2.50	1	BLLS-370A	BLTS-370A	1	6.00	1
BLLS-108A	BLTS-108A	7/16	3.00	1					

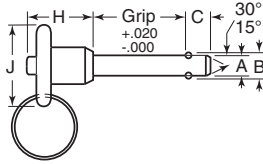
QUICK RELEASE BALL LOCK PINS



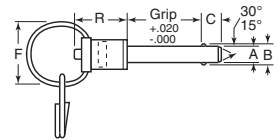
Quick Release Ball Lock Pins
Stainless Steel
Button and Ring Handles
Industrial Grade



Button Handle



Ring Handle



Nom. Dia.	A (Dia.)		+.000/ +/.005 -.030		H	J	Pull Out Strength (Lbs.)	Calculated Double Shear Strength (Lbs.)
	Max.	Min.	B	C				
3/16	.1885	.1870	.220	.260	.8125	.8125	200	5,150
1/4	.2485	.2470	.289	.290	.8750	.8125	200	5,150
5/16	.3110	.3095	.375	.330	.9062	.8750	230	9,200
3/8	.3735	.3720	.440	.365	1.0312	1.1250	230	9,200
7/16	.4360	.4345	.509	.380	1.0312	1.1250	510	14,400
1/2	.4985	.4970	.594	.460	1.0312	1.3750	510	14,400
9/16	.5610	.5595	.666	.510	1.3750	1.3750	575	20,700
5/8	.6235	.6220	.750	.580	1.5000	1.6250	575	20,700
3/4	.7485	.7470	.887	.670	1.6562	1.8750	710	28,500
7/8	.8735	.8720	1.046	.760	1.9687	2.1875	710	28,500
1	.9985	.9970	1.219	.890	1.1250	2.1875	1,160	36,900

Nom. Dia.	A (Dia.)		+.000/ +/.005 -.030		F	R	Pull Out Strength (Lbs.)	Calculated Double Shear Strength (Lbs.)
	Max.	Min.	B	C				
3/16	.1885	.1870	.220	.260	1.125	.8125	1,160	36,900
1/4	.2485	.2470	.289	.290	1.125	.8125	1,420	46,700
5/16	.3110	.3095	.375	.330	1.125	.8437	1,420	46,700
3/8	.3735	.3720	.440	.365	1.125	1.0000	2,070	57,800
7/16	.4360	.4345	.509	.380	1.125	1.0000	2,070	57,800
1/2	.4985	.4970	.594	.460	1.375	1.2500	2,950	83,200
9/16	.5610	.5595	.666	.510	1.375	1.2500	2,950	83,200
5/8	.6235	.6220	.750	.580	1.625	1.6875	3,900	112,500
3/4	.7485	.7470	.887	.670	1.625	1.8125	3,900	112,500
7/8	.8735	.8720	1.046	.760	1.750	2.1875	5,480	147,200
1	.9985	.9970	1.219	.890	1.750	2.1250	5,480	147,200

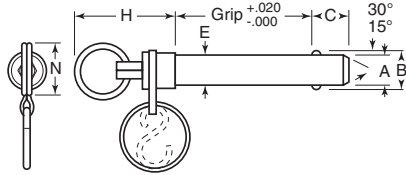
These quick release pins provide positive locking for all types of applications and equipment. Pins will not release until the spindle is depressed. Spindle and shank are made of heat treated 17-4 PH stainless steel. Button handles are made of light weight black anodized aluminum with blue button. Handle and button on ring style are both made of stainless steel.

For less demanding applications, we offer a commercial line of button handle and T-handle ball lock pins in popular sizes on page 743.

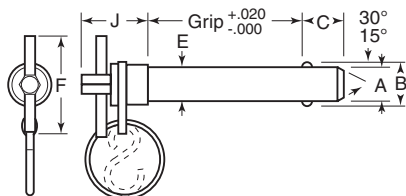
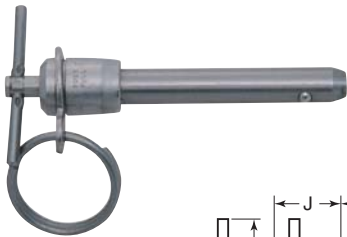
Button Handle		Ring Handle		Button Handle		Ring Handle		Nom. Dia.	Grip Length	Pack Qty.
Item No.	Item No.	Nom. Dia.	Grip Length	Item No.	Item No.	Nom. Dia.	Grip Length			
BLBS-000A	BLRS-000A	3/16	.50	BLBS-100A	BLRS-100A	3/8	4.00	1		
BLBS-0015A	BLRS-0015A	3/16	.75	BLBS-102A	BLRS-102A	3/8	5.00	1		
BLBS-001A	BLRS-001A	3/16	1.00	BLBS-104A	BLRS-104A	3/8	6.00	1		
BLBS-0016A	BLRS-0016A	3/16	1.25	BLBS-105A	BLRS-105A	7/16	1.00	1		
BLBS-002A	BLRS-002A	3/16	1.50	BLBS-1055A	BLRS-1055A	7/16	1.50	1		
BLBS-004A	BLRS-004A	3/16	2.00	BLBS-106A	BLRS-106A	7/16	2.00	1		
BLBS-005A	BLRS-005A	3/16	2.50	BLBS-107A	BLRS-107A	7/16	2.50	1		
BLBS-006A	BLRS-006A	3/16	3.00	BLBS-110A	BLRS-110A	1/2	1.00	1		
BLBS-008A	BLRS-008A	3/16	4.00	BLBS-112A	BLRS-112A	1/2	1.25	1		
BLBS-009A	BLRS-009A	1/4	.50	BLBS-120A	BLRS-120A	1/2	1.50	1		
BLBS-0095A	BLRS-0095A	1/4	.75	BLBS-130A	BLRS-130A	1/2	2.00	1		
BLBS-010A	BLRS-010A	1/4	1.00	BLBS-135A	BLRS-135A	1/2	2.50	1		
BLBS-020A	BLRS-020A	1/4	1.50	BLBS-140A	BLRS-140A	1/2	3.00	1		
BLBS-030A	BLRS-030A	1/4	2.00	BLBS-150A	BLRS-150A	1/2	4.00	1		
BLBS-035A	BLRS-035A	1/4	2.50	BLBS-160A	BLRS-160A	1/2	5.00	1		
BLBS-040A	BLRS-040A	1/4	3.00	BLBS-170A	BLRS-170A	1/2	6.00	1		
BLBS-050A	BLRS-050A	1/4	4.00	BLBS-179A	BLRS-179A	3/8	1.50	1		
BLBS-0505A	BLRS-0505A	5/16	.75	BLBS-180A	BLRS-180A	3/8	2.00	1		
BLBS-051A	BLRS-051A	5/16	1.00	BLBS-190A	BLRS-190A	3/8	2.50	1		
BLBS-0515A	BLRS-0515A	5/16	1.25	BLBS-200A	BLRS-200A	3/8	3.00	1		
BLBS-052A	BLRS-052A	5/16	1.50	BLBS-220A	BLRS-220A	3/8	4.00	1		
BLBS-053A	BLRS-053A	5/16	2.00	BLBS-230A	BLRS-230A	3/8	5.00	1		
BLBS-054A	BLRS-054A	5/16	2.50	BLBS-250A	BLRS-250A	3/4	2.00	1		
BLBS-055A	BLRS-055A	5/16	3.00	BLBS-260A	BLRS-260A	3/4	2.50	1		
BLBS-056A	BLRS-056A	5/16	4.00	BLBS-270A	BLRS-270A	3/4	3.00	1		
BLBS-057A	BLRS-057A	5/16	5.00	BLBS-290A	BLRS-290A	3/4	4.00	1		
BLBS-059A	BLRS-059A	3/8	.50	BLBS-300A	BLRS-300A	3/4	5.00	1		
BLBS-0595A	BLRS-0595A	3/8	.75	BLBS-310A	BLRS-310A	3/4	6.00	1		
BLBS-060A	BLRS-060A	3/8	1.00	BLBS-340A	BLRS-340A	1	2.00	1		
BLBS-065A	BLRS-065A	3/8	1.25	BLBS-345A	BLRS-345A	1	2.50	1		
BLBS-070A	BLRS-070A	3/8	1.50	BLBS-350A	BLRS-350A	1	3.00	1		
BLBS-080A	BLRS-080A	3/8	2.00	BLBS-360A	BLRS-360A	1	4.00	1		
BLBS-085A	BLRS-085A	3/8	2.50	BLBS-365A	BLRS-365A	1	5.00	1		
BLBS-090A	BLRS-090A	3/8	3.00	BLBS-370A	BLRS-370A	1	6.00	1		



Double Acting Ring and T-Handles
Stainless Steel



Ring Handle



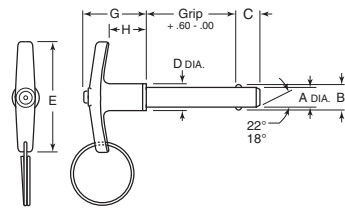
T-Handle

Nom. Dia.	A (Dia.)		B		C		E		F		H		J		N		Grip	Pull Out Strength (Lbs.)	Calculated Double Shear Strength (Lbs.)
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
3/16	.1885	.1870	.220	.410	.450	1.500	1.945	1.030	1.125	200	5,150								
1/4	.2485	.2470	.289	.410	.450	1.500	1.945	1.030	1.125	230	9,200								
5/16	.3110	.3095	.375	.440	.505	1.500	1.945	1.030	1.125	510	14,400								
3/8	.3735	.3720	.440	.510	.630	2.000	2.025	1.090	1.125	575	20,600								
7/16	.4360	.4345	.509	.510	.630	2.000	2.025	1.090	1.125	710	28,000								
1/2	.4985	.4970	.594	.590	.755	2.250	2.200	1.270	1.125	1160	36,800								

Pins are activated by push or pull motion. Meets or exceeds NASM 23460 and MS17988 specifications. Double acting pins are positive locking and are applicable for all types of equipment and applications. Quick release pins will not release until the spindle is depressed. Spindle and shank are made from heat treated 4130 alloy. Stainless steel is 17-4 PH. Ring is included for easy lanyard attachment.

Ring Handle Item No.	T-Handle Item No.	Nom. Dia.	Grip Length	Pack Qty.
DARS-000A	DATS-000A	3/16	.50	1
DARS-001A	DATS-001A	3/16	1.00	1
DARS-002A	DATS-002A	3/16	1.50	1
DARS-004A	DATS-004A	3/16	2.00	1
DARS-010A	DATS-010A	1/4	1.00	1
DARS-020A	DATS-020A	1/4	1.50	1
DARS-030A	DATS-030A	1/4	2.00	1
DARS-035A	DATS-035A	1/4	2.50	1
DARS-040A	DATS-040A	1/4	3.00	1
DARS-051A	DATS-051A	5/16	1.00	1
DARS-052A	DATS-052A	5/16	1.50	1
DARS-053A	DATS-053A	5/16	2.00	1
DARS-054A	DATS-054A	5/16	2.50	1
DARS-055A	DATS-055A	5/16	3.00	1
DARS-060A	DATS-060A	3/8	1.00	1
DARS-070A	DATS-070A	3/8	1.50	1
DARS-080A	DATS-080A	3/8	2.00	1
DARS-085A	DATS-085A	3/8	2.50	1
DARS-090A	DATS-090A	3/8	3.00	1
DARS-102A	DATS-102A	3/8	5.00	1
DARS-120A	DATS-120A	1/2	1.50	1
DARS-130A	DATS-130A	1/2	2.00	1
DARS-135A	DATS-135A	1/2	2.50	1
DARS-140A	DATS-140A	1/2	3.00	1

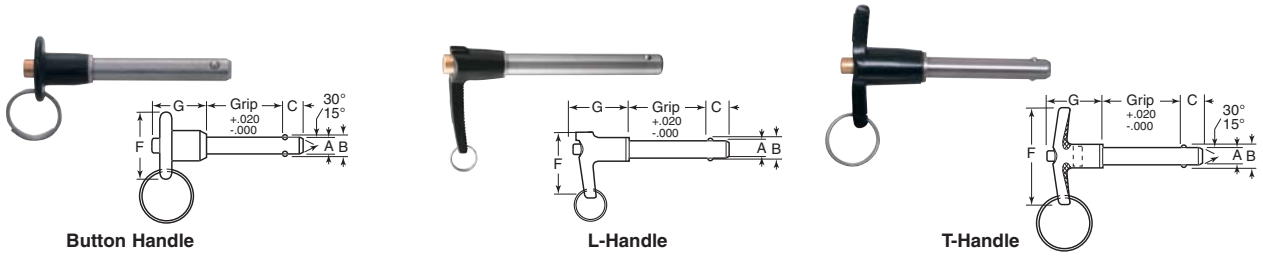
T-Handle Ball Lock Pins
Steel and Stainless Steel
Metric



Nom. Dia. (mm)	A		B		C	D	E	G	H	Calculated Double Shear Strength (Newtons)	
	Max.	Min.	Max.	Min.						Steel	Stainless
5	4.96	4.92	5.54	6	13.1	46.1	31.3	19.7	21,600	24,400	
6	5.96	5.92	6.99	7	13.1	46.1	31.3	19.7	31,686	35,640	
8	7.96	7.92	9.42	8	13.1	46.1	31.3	19.7	56,712	63,804	
10	9.96	9.92	11.86	9	15.0	51.1	36.1	24.0	88,977	100,101	
12	11.96	11.92	14.45	10	19.1	59.7	41.9	25.8	128,050	144,060	
16	15.96	15.92	19.00	14	23.9	78.7	49.8	30.1	228,602	257,179	
20	19.96	19.92	24.08	17	23.9	78.7	49.8	39.9	358,104	402,867	

Stainless Item No.	Steel Item No.	Nom. Dia.	Grip Lgth.	Pack Qty.
MBL-05A	MBL-300A	5	25	1
MBL-10A	MBL-310A	6	15	1
MBL-15A	MBL-325A	6	25	1
MBL-20A	MBL-335A	6	40	1
MBL-25A	MBL-340A	6	50	1
MBL-36A	MBL-343A	6	80	1
MBL-38A	MBL-345A	6	100	1
MBL-40A	MBL-348A	8	15	1
MBL-45A	MBL-355A	8	25	1
MBL-50A	MBL-365A	8	40	1
MBL-68A	MBL-375A	8	100	1
MBL-70A	MBL-376A	10	15	1
MBL-71A	MBL-377A	10	20	1
MBL-75A	MBL-380A	10	25	1
MBL-78A	MBL-386A	10	30	1
MBL-85A	MBL-395A	10	50	1
MBL-92A	MBL-397A	10	70	1
MBL-100A	MBL-400A	10	100	1
MBL-103A	MBL-403A	12	25	1
MBL-110A	MBL-415A	12	50	1
MBL-118A	MBL-420A	12	80	1
MBL-120A	MBL-425A	12	100	1
MBL-125A	MBL-426A	16	25	1
MBL-130A	MBL-430A	16	50	1
MBL-140A	MBL-435A	16	100	1
MBL-145A	MBL-440A	20	25	1
MBL-150A	MBL-450A	20	50	1
MBL-160A	MBL-455A	20	100	1

QUICK RELEASE BALL LOCK PINS



This line of stainless steel commercial grade pins are an economical option to the industrial grade and offer the most popular styles and sizes, including metric sizes of the T-handle. Pins provide positive locking and work well on applications where fastening and locating are integral. The handle is black aluminum with a brass push button. Shank body is composed of high quality series 300 stainless steel. Common applications include manufacturing, marine, vehicle and medical.

T-Handles, L-Handles and Button Handles Commercial Grade Inch



Inch Specifications					
Nom. Dia.	+0.000/ -.0015 A	+0.005 B	+0.000/ -.030 C	Pull Out Strength (Lbs.)	Calculated Double Shear Strength (Lbs.)
3/16	.189	.220	.260	150	2,200
1/4	.2485	.289	.290	180	2,200
5/16	.3110	.375	.400	400	3,500
3/8	.3735	.440	.365	450	4,500
7/16	.436	.509	.380	500	20,500
1/2	.4985	.594	.460	900	11,500
5/8	.6235	.750	.580	1,500	19,000

Button Handle			L-Handle			T-Handle			Button Handle			L-Handle			T-Handle								
Item No.	F	G	Item No.	F	G	Item No.	F	G	Item No.	F	G	Item No.	F	G	Item No.	F	G						
CPB-001	.800	.830	CPBL-001	1.800	1.270	CPT-001	1.815	1.270	3/16	.50	1	CPB-095	1.135	1.040	CPBL-095	2.030	1.450	CPT-095	2.065	1.450	3/8	3.50	1
CPB-002	.800	.830	CPBL-002	1.800	1.270	CPT-002	1.815	1.270	3/16	.75	1	CPB-100	1.135	1.040	CPBL-100	2.030	1.450	CPT-100	2.065	1.450	3/8	4.00	1
CPB-003	.800	.830	CPBL-003	1.800	1.270	CPT-003	1.815	1.270	3/16	1.00	1	CPB-103	1.400	1.160	CPBL-103	2.030	1.470	CPT-103	2.065	2.065	7/16	1.00	1
CPB-004	.800	.830	CPBL-004	1.800	1.270	CPT-004	1.815	1.270	3/16	1.25	1	CPB-104	1.400	1.160	CPBL-104	2.030	1.470	CPT-104	2.065	2.065	7/16	1.50	1
CPB-005	.800	.830	CPBL-005	1.800	1.270	CPT-005	1.815	1.270	3/16	1.50	1	CPB-105	1.400	1.160	CPBL-105	2.030	1.470	CPT-105	2.065	2.065	7/16	2.00	1
CPB-006	.800	.830	CPBL-006	1.800	1.270	CPT-006	1.815	1.270	3/16	2.00	1	CPB-106	1.400	1.160	CPBL-106	2.030	1.470	CPT-106	2.065	2.065	7/16	2.50	1
CPB-007	.800	.830	CPBL-007	1.800	1.270	CPT-007	1.815	1.270	3/16	2.50	1	CPB-107	1.400	1.160	CPBL-107	2.030	1.470	CPT-107	2.065	2.065	7/16	3.00	1
CPB-008	.800	.830	CPBL-008	1.800	1.270	CPT-008	1.815	1.270	3/16	3.00	1	CPB-108	1.400	1.160	CPBL-108	2.030	1.470	CPT-108	2.065	2.065	7/16	3.50	1
CPB-009	.800	.890	CPBL-009	1.800	1.270	CPT-009	1.815	1.270	1/4	.50	1	CPB-109	1.400	1.160	CPBL-109	2.030	1.470	CPT-109	2.065	2.065	7/16	4.00	1
CPB-0095	.800	.890	CPBL-0095	1.800	1.270	CPT-0095	1.815	1.270	1/4	.75	1	CPB-1095	1.400	1.190	CPBL-1095	2.360	1.600	CPT-1095	2.345	1.600	1/2	.50	1
CPB-010	.800	.890	CPBL-010	1.800	1.270	CPT-010	1.815	1.270	1/4	1.00	1	CPB-110	1.400	1.190	CPBL-110	2.360	1.600	CPT-110	2.345	1.600	1/2	1.00	1
CPB-015	.800	.890	CPBL-015	1.800	1.270	CPT-015	1.815	1.270	1/4	1.25	1	CPB-112	1.400	1.400	CPBL-112	2.360	1.600	CPT-112	2.345	1.600	1/2	1.25	1
CPB-020	.800	.890	CPBL-020	1.800	1.270	CPT-020	1.815	1.270	1/4	1.50	1	CPB-120	1.400	1.190	CPBL-120	2.360	1.600	CPT-120	2.345	1.600	1/2	1.50	1
CPB-030	.800	.890	CPBL-030	1.800	1.270	CPT-030	1.815	1.270	1/4	2.00	1	CPB-125	1.400	1.400	CPBL-125	2.360	1.600	CPT-125	2.345	1.600	1/2	1.75	1
CPB-035	.800	.890	CPBL-035	1.800	1.270	CPT-035	1.815	1.270	1/4	2.50	1	CPB-130	1.400	1.190	CPBL-130	2.360	1.600	CPT-130	2.345	1.600	1/2	2.00	1
CPB-040	.800	.890	CPBL-040	1.800	1.270	CPT-040	1.815	1.270	1/4	3.00	1	CPB-135	1.400	1.190	CPBL-135	2.360	1.600	CPT-135	2.345	1.600	1/2	2.50	1
CPB-045	.800	.890	CPBL-045	1.800	1.270	CPT-045	1.815	1.270	1/4	3.50	1	CPB-140	1.400	1.190	CPBL-140	2.360	1.600	CPT-140	2.345	1.600	1/2	3.00	1
CPB-050	.800	.890	CPBL-050	1.800	1.270	CPT-050	1.815	1.270	1/4	4.00	1	CPB-145	1.400	1.190	CPBL-145	2.360	1.600	CPT-145	2.345	1.600	1/2	3.50	1
CPB-0505	1.810	.930	CPBL-0505	1.800	1.270	CPT-0505	1.815	1.270	3/16	.50	1	CPB-150	1.400	1.190	CPBL-150	2.360	1.600	CPT-150	2.345	1.600	1/2	4.00	1
CPB-0508	1.135	.930	CPBL-0508	1.800	1.270	CPT-0508	1.815	1.270	3/16	.75	1	CPB-155	1.400	1.400	CPBL-155	2.360	1.600	CPT-155	2.345	1.600	1/2	4.50	1
CPB-051	1.135	.930	CPBL-051	1.800	1.270	CPT-051	1.815	1.270	3/16	1.00	1	CPB-160	1.400	1.400	CPBL-160	2.360	1.600	CPT-160	2.345	1.600	1/2	5.00	1
CPB-0515	1.135	.930	CPBL-0515	1.800	1.270	CPT-0515	1.815	1.270	3/16	1.25	1	CPB-165	1.400	1.400	CPBL-165	2.360	1.600	CPT-165	2.345	1.600	1/2	5.50	1
CPB-052	1.135	.930	CPBL-052	1.800	1.270	CPT-052	1.815	1.270	3/16	1.50	1	CPB-170	1.400	1.400	CPBL-170	2.360	1.600	CPT-170	2.345	1.600	1/2	6.00	1
CPB-053	1.135	.930	CPBL-053	1.800	1.270	CPT-053	1.815	1.270	3/16	2.00	1	CPB-177	1.700	1.500	CPBL-177	3.070	1.700	CPT-177	3.100	1.700	5/8	.50	1
CPB-054	1.135	.930	CPBL-054	1.800	1.270	CPT-054	1.815	1.270	3/16	2.50	1	CPB-178	1.700	1.500	CPBL-178	3.070	1.700	CPT-178	3.100	1.700	5/8	1.00	1
CPB-055	1.135	.930	CPBL-055	1.800	1.270	CPT-055	1.815	1.270	3/16	3.00	1	CPB-179	1.700	1.500	CPBL-179	3.070	1.700	CPT-179	3.100	1.700	5/8	1.50	1
CPB-0555	1.135	.930	CPBL-0555	1.800	1.270	CPT-0555	1.815	1.270	3/16	3.50	1	CPB-180	1.700	1.500	CPBL-180	3.070	1.700	CPT-180	3.100	1.700	5/8	2.00	1
CPB-056	1.135	.930	CPBL-056	1.800	1.270	CPT-056	1.815	1.270	3/16	4.00	1	CPB-190	1.700	1.500	CPBL-190	3.070	1.700	CPT-190	3.100	1.700	5/8	2.50	1
CPB-059	1.135	1.040	CPBL-059	2.030	1.450	CPT-059	2.065	1.450	3/8	.50	1	CPB-200	1.700	1.500	CPBL-200	3.070	1.700	CPT-200	3.100	1.700	5/8	3.00	1
CPB-0595	1.135	1.040	CPBL-0595	2.030	1.450	CPT-0595	2.065	2.065	3/8	.75	1	CPB-210	1.700	1.500	CPBL-210	3.070	1.700	CPT-210	3.100	1.700	5/8	3.50	1
CPB-060	1.135	1.040	CPBL-060	2.030	1.450	CPT-060	2.065	1.450	3/8	1.00	1	CPB-220	1.700	1.500	CPBL-220	3.070	1.700	CPT-220	3.100	1.700	5/8	4.00	1
CPB-0605	1.135	1.040	CPBL-0605	2.030	1.450	CPT-0605	2.065	2.065	3/8	1.25	1	CPB-225	1.700	1.500	CPBL-225	3.070	1.700	CPT-225	3.100	1.700	5/8	4.50	1
CPB-070	1.135	1.040	CPBL-070	2.030	1.450	CPT-070	2.065	1.450	3/8	1.50	1	CPB-230	1.700	1.700	CPBL-230	3.070	1.700	CPT-230	3.100	1.700	5/8	5.00	1
CPB-080	1.135	1.040	CPBL-075	2.030	1.450	CPT-080	2.065	1.450	3/8	2.00	1	CPB-235	1.700	1.700	CPBL-235	3.070	1.700	CPT-235	3.100	1.700	5/8	5.50	1
CPB-085	1.135	1.040	CPBL-080	2.030	1.450	CPT-085	2.065	1.450	3/8	2.50	1	CPB-240	1.700	1.700	CPBL-240	3.070	1.700	CPT-240	3.100	1.700	5/8	6.00	1
CPB-090	1.135	1.040	CPBL-090	2.030	1.450	CPT-090	2.065	1.450	3/8	3.00	1												

T-Handles Commercial Grade Metric

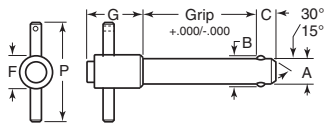


Metric Specifications					
Nom. Dia.	+0.000/ -.04 A	+0.13/ -.00 B	+0.00/ -.76 C	Pull Out Strength (Kg)	Calculated Double Shear Strength (Kg)
M5	4.96	5.54	6	70	1,247
M6	5.96	6.99	7	75	1,950
M8	7	9.42	8	190	3,289
M10	9	11.86	9	205	4,581
M12	11.96	14.45	10	290	4,989
M16	15.96	19.00	14	680	13,608
M20	19.96	24.08	17	900	22,000

T-Handle						T-Handle					
Item No.	F	G	Nom. Dia.	Grip Lgth.	Pack Qty.	Item No.	F	G	Nom. Dia.	Grip Lgth.	Pack Qty.
CPT-M05025	13	46	M5	25	1	CPT-M10025	16	51	M10	25	1
CPT-M06015	13	46	M6	15	1	CPT-M10030	16	51	M10	30	1
CPT-M06020	13	46	M6	20	1	CPT-M10040	16	51	M10	40	1
CPT-M06025	13	46	M6	25	1	CPT-M10050	16	51	M10	50	1
CPT-M06030	13	46	M6	30	1	CPT-M10065	16	51	M10	65	1
CPT-M06040	13	46	M6	40	1	CPT-M10070	16	51	M10	70	1
CPT-M06050	13	46	M6	50	1	CPT-M10100	16	51	M10	100	1
CPT-M06065	13	46	M6	65	1	CPT-M12030	16	51	M12	30	1



Heavy Duty T-Handle



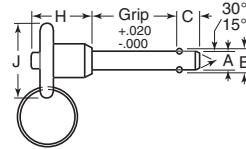
They are also known as ground handling pins used in the handling of aircraft and service equipment. Shank and spindle are made of 17-4 PH or PH 15-7 MO or equivalent.

Nom Dia.	A Dia.		±.005 B		C	F	G	P	Pull Out Strength (Lbs.)	Calculated Double Shear Strength (Lbs.)
	Max.	Min.	Max.	Min.						
1/4	.2485	.2470	.289	.290	.250	1.250	1.063	230	9,200	
5/16	.3110	.3095	.375	.330	.250	1.250	1.063	510	14,400	
3/8	.3735	.3720	.440	.365	.313	1.250	1.063	575	20,700	
1/2	.4985	.4970	.594	.438	.438	1.434	2.375	1,160	36,900	
5/8	.6235	.6220	.750	.580	.500	1.434	2.875	2,070	57,800	
3/4	.7485	.7470	.887	.670	.750	1.434	2.875	2,950	83,200	
1	.9985	.9970	1.219	.890	.750	2.156	3.250	5,480	147,200	

These pins are similar to the pins shown on page 742 and 743, except they have a heavy duty handle.

Item No.	Nom. Dia.	Grip Lgth.	Pack Qty.
GHP-5A	1/4	.50	1
GHP-10A	1/4	1.0	1
GHP-15A	1/4	1.5	1
GHP-20A	1/4	2.00	1
GHP-25A	1/4	2.5	1
GHP-30A	1/4	3.0	1
GHP-35A	1/4	4.0	1
GHP-45A	5/16	.50	1
GHP-50A	5/16	1.0	1
GHP-55A	5/16	1.5	1
GHP-60A	5/16	2.00	1
GHP-65A	5/16	2.5	1
GHP-70A	5/16	3.0	1
GHP-80A	5/16	4.0	1
GHP-90A	3/8	.50	1
GHP-95A	3/8	1.0	1
GHP-100A	3/8	1.5	1
GHP-105A	3/8	2.0	1
GHP-110A	3/8	2.5	1
GHP-115A	3/8	3.0	1
GHP-125A	3/8	4.0	1
GHP-135A	1/2	.50	1
GHP-140A	1/2	1.0	1
GHP-145A	1/2	1.5	1
GHP-150A	1/2	2.0	1
GHP-155A	1/2	2.5	1
GHP-160A	1/2	3.0	1
GHP-170A	1/2	4.0	1
GHP-180A	5/8	1.5	1
GHP-185A	5/8	2.0	1
GHP-190A	5/8	2.5	1
GHP-195A	5/8	3.0	1
GHP-205A	5/8	4.0	1
GHP-215A	5/8	5.0	1
GHP-220A	3/4	1.5	1
GHP-225A	3/4	2.5	1
GHP-230A	3/4	3.0	1
GHP-235A	3/4	4.0	1
GHP-245A	3/4	5.0	1
GHP-250A	1	2.0	1
GHP-255A	1	3.0	1
GHP-260A	1	4.0	1
GHP-265A	1	5.0	1
GHP-270A	1	6.0	1

Quick Release Ball Lock Pins High Tension Industrial Grade

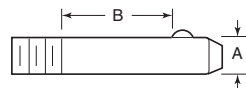


These quick release pins provide positive locking for all types of applications and equipment. Pins will not release until the spindle is depressed. Shank is made from 17-4 PH or PH15-7 MO or equivalent, and spindle is CRES 440C. Four balls offer greater pull out strength.

Nom. Dia.	A (Dia.)		±.005 B		C	H	J		Pull Out Strength (Lbs.)	Calculated Double Shear Strength (Lbs.)	
	Max.	Min.	Max.	Min.			Max.	Min.		Steel	Stainless
1/4	.2485	.2470	.289	.290	.290	.890	.800	.720	1,500	8,200	9,200
5/16	.3110	.3095	.375	.330	.330	.930	1.135	.810	1,700	12,800	14,400
3/8	.3735	.3720	.440	.365	1.040	1.135	.810	3,100	18,400	20,600	
1/2	.4985	.4970	.594	.460	1.190	1.400	1.300	5,500	32,800	36,800	

Item No.	Nom. Dia.	Grip Lgth.	Pack Qty.
HTB-010	1/4	1.00	1
HTB-030	1/4	2.00	1
HTB-035	1/4	2.50	1
HTB-040	1/4	3.00	1
HTB-050	1/4	4.00	1
HTB-051	5/16	1.00	1
HTB-053	5/16	2.00	1
HTB-055	5/16	3.00	1
HTB-056	5/16	4.00	1
HTB-059	3/8	.50	1
HTB-060	3/8	1.00	1
HTB-080	3/8	2.00	1
HTB-090	3/8	3.00	1
HTB-100	3/8	4.00	1
HTB-110	1/2	1.00	1
HTB-120	1/2	1.50	1
HTB-130	1/2	2.00	1
HTB-135	1/2	2.50	1
HTB-140	1/2	3.00	1
HTB-150	1/2	4.00	1

Quick Release Ball Lock Pins Threaded End Type 303 Stainless Steel

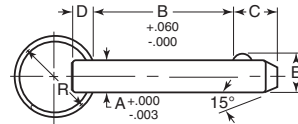


These quick release pins provide positive locking for all types of applications and equipment. Pins will not release until the spindle is depressed. One end is threaded allowing you to attach any special handle or fixture to the pin. Made of Type 303 stainless steel. It is recommended that a thread locking adhesive be used to secure handle to the pin.

Item No.	Nom. Dia.	Grip Lgth. B	Thread		Pack Qty.
			Size	Lgth.	
FPU-10	3/16	1/2	10-32	3/16	1
FPU-15	3/16	1	10-32	3/16	1
FPU-20	3/16	1 1/2	10-32	3/16	1
FPU-30	1/4	1/2	1/4-20	3/8	1
FPU-35	1/4	1	1/4-20	3/8	1
FPU-45	1/4	2	1/4-20	3/8	1
FPU-50	1/4	2 1/2	1/4-20	3/8	1
FPU-55	3/16	1	3/16-18	3/8	1
FPU-60	3/16	1 1/2	3/16-18	3/8	1



Quick Release Pins
Steel and Stainless Steel



Nom. Dia.					
	A	C	D	E	R
3/16	.200	.187	.204	1.00	1.00
1/4	.312	.220	.286	1.00	1.00
5/16	.375	.250	.358	1.00	1.00
3/8	.500	.250	.426	1.00	1.00
1/2	.625	.312	.570	1.25	1.25
5/8	.750	.375	.710	1.25	1.25
3/4	.937	.375	.856	1.50	1.50
1	1.250	.500	1.140	1.50	1.50

Quick release pins are economical pins that can be applied in both military and commercial equipment. Solid body construction with direct spring loaded ball provides dependable operating qualities. High shear capacity steel gives maximum strength for all applications. They can be used to lock telescoping tubes, secure bracket assemblies, anchor clevis fittings, hinge pins, replace cotter pins where frequent removal is necessary and set up jigs and fixtures. Stainless steel pins may be more specifically used in the aircraft industry, food processing machinery, marine equipment, laboratory and testing equipment and any application where corrosion is a concern. Hole sizes-commercial drill tolerances provide clearance for standard pins. Steel are zinc plated C1144. Stainless steel are Type 303.

Steel	Stainless	Nom. Dia. A	Grip Lgth. B	Pack Qty.	Steel	Stainless	Nom. Dia. A	Grip Lgth. B	Pack Qty.
Item No.	Item No.				Item No.	Item No.			
FPC3-05R	FPSC3-05R	3/16	.5	1	FPC8-20R	FPSC8-20R	1/2	2.0	1
FPC3-08R	FPSC3-08R	3/16	.8	1	FPC8-25R	FPSC8-25R	1/2	2.5	1
FPC3-10R	FPSC3-10R	3/16	1.0	1	FPC8-30R	FPSC8-30R	1/2	3.0	1
FPC3-13R	FPSC3-13R	3/16	1.3	1	FPC8-35R	FPSC8-35R	1/2	3.5	1
FPC3-15R	FPSC3-15R	3/16	1.5	1	FPC8-40R	FPSC8-40R	1/2	4.0	1
FPC3-20R	FPSC3-20R	3/16	2.0	1	FPC8-45R	—	1/2	4.5	1
FPC3-25R	FPSC3-25R	3/16	2.5	1	FPC8-50R	FPSC8-50R	1/2	5.0	1
FPC3-30R	FPSC3-30R	3/16	3.0	1	FPC8-55R	FPSC8-55R	1/2	5.5	1
FPC4-05R	FPSC4-05R	1/4	.5	1	FPC8-60R	FPSC8-60R	1/2	6.0	1
FPC4-08R	FPSC4-08R	1/4	.8	1	FPC10-20R	FPSC10-20R	3/8	2.0	1
FPC4-10R	FPSC4-10R	1/4	1.0	1	FPC10-25R	FPSC10-25R	3/8	2.5	1
FPC4-13R	FPSC4-13R	1/4	1.3	1	FPC10-30R	—	3/8	3.0	1
FPC4-15R	FPSC4-15R	1/4	1.5	1	FPC10-35R	—	3/8	3.5	1
FPC4-20R	FPSC4-20R	1/4	2.0	1	FPC10-40R	—	3/8	4.0	1
FPC4-25R	FPSC4-25R	1/4	2.5	1	FPC10-45R	FPSC10-45R	3/8	4.5	1
FPC4-30R	FPSC4-30R	1/4	3.0	1	FPC10-50R	—	3/8	5.0	1
FPC5-08R	FPSC5-08R	5/16	.8	1	FPC10-60R	—	3/8	6.0	1
FPC5-10R	FPSC5-10R	5/16	1.0	1	FPC12-20R	FPSC12-20R	3/4	2.0	1
FPC5-13R	FPSC5-13R	5/16	1.3	1	FPC12-25R	FPSC12-25R	3/4	2.5	1
FPC5-15R	FPSC5-15R	5/16	1.5	1	FPC12-30R	FPSC12-30R	3/4	3.0	1
FPC5-20R	FPSC5-20R	5/16	2.0	1	FPC12-35R	FPSC12-35R	3/4	3.5	1
FPC5-25R	FPSC5-25R	5/16	2.5	1	FPC12-40R	—	3/4	4.0	1
FPC5-30R	FPSC5-30R	5/16	3.0	1	FPC12-45R	FPSC12-45R	3/4	4.5	1
FPC5-35R	FPSC5-35R	5/16	3.5	1	FPC12-50R	FPSC12-50R	3/4	5.0	1
FPC5-40R	FPSC5-40R	5/16	4.0	1	FPC12-60R	—	3/4	6.0	1
FPC6-08R	FPSC6-08R	3/8	.8	1	FPC12-65R	FPSC12-65R	3/4	6.5	1
FPC6-10R	FPSC6-10R	3/8	1.0	1	FPC12-70R	FPSC12-70R	3/4	7.0	1
FPC6-13R	FPSC6-13R	3/8	1.3	1	FPC12-80R	—	3/4	8.0	1
FPC6-15R	FPSC6-15R	3/8	1.5	1	FPC16-20R	FPSC16-20R	1	2.0	1
FPC6-20R	FPSC6-20R	3/8	2.0	1	FPC16-25R	—	1	2.5	1
FPC6-25R	FPSC6-25R	3/8	2.5	1	FPC16-30R	FPSC16-30R	1	3.0	1
FPC6-30R	FPSC6-30R	3/8	3.0	1	FPC16-35R	FPSC16-35R	1	3.5	1
FPC6-35R	FPSC6-35R	3/8	3.5	1	FPC16-40R	FPSC16-40R	1	4.0	1
FPC6-40R	FPSC6-40R	3/8	4.0	1	FPC16-45R	—	1	4.5	1
FPC6-45R	FPSC6-45R	3/8	4.5	1	FPC16-50R	—	1	5.0	1
FPC6-50R	FPSC6-50R	3/8	5.0	1	FPC16-55R	—	1	5.5	1
FPC8-10R	FPSC8-10R	1/2	1.0	1	FPC16-70R	—	1	7.0	1
FPC8-13R	FPSC8-13R	1/2	1.3	1	FPC16-80R	FPSC16-80R	1	8.0	1
FPC8-15R	FPSC8-15R	1/2	1.5	1					



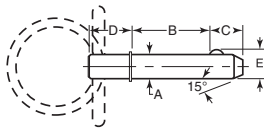
Quick Release Pins
Shoulder Type



T-Handle



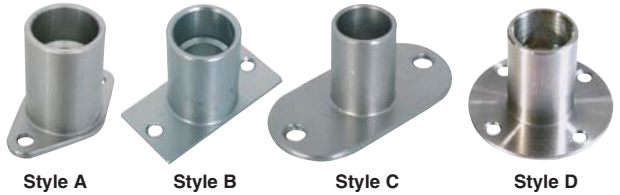
Ring Handle



These steel quick release pins are used in applications where a positive stop is desired. The shoulder prevents the pin from being inserted all the way to the handle.

T-Handle		Ring Handle		Nom. Dia.	Grip Lgth.	C	D	E	Pack Qty.
Item No.	Item No.	A	B						
FPD-50	FPD-610	3/16	.50	.200	.750	.204	1		
FPD-60	FPD-615	3/16	1.0	.200	.750	.204	1		
FPD-70	FPD-620	3/16	1.5	.200	.750	.204	1		
FPD-80	FPD-625	3/16	2.0	.200	.750	.204	1		
FPD-90	FPD-630	1/4	.60	.312	.750	.286	1		
FPD-100	FPD-635	1/4	1.0	.312	.750	.286	1		
FPD-110	FPD-640	1/4	1.3	.312	.750	.286	1		
FPD-120	FPD-645	1/4	1.5	.312	.750	.286	1		
FPD-130	FPD-650	1/4	2.0	.312	.750	.286	1		
FPD-140	FPD-655	1/4	3.0	.312	.750	.286	1		
FPD-150	FPD-660	5/16	1.0	.375	.750	.358	1		
FPD-160	FPD-665	5/16	1.5	.375	.750	.358	1		
FPD-170	FPD-670	5/16	2.0	.375	.750	.358	1		
—	FPD-675	3/8	.60	.500	.750	.426	1		
FPD-190	FPD-680	3/8	1.0	.500	.750	.426	1		
FPD-200	FPD-685	3/8	1.5	.500	.750	.426	1		
FPD-210	FPD-690	3/8	1.8	.500	.750	.426	1		
FPD-220	FPD-695	3/8	2.0	.500	.750	.426	1		
FPD-230	FPD-700	3/8	2.5	.500	.750	.426	1		
FPD-240	FPD-705	3/8	3.0	.500	.750	.426	1		
FPD-250	FPD-710	3/8	4.0	.500	.750	.426	1		
FPD-260	FPD-715	1/2	1.0	.625	1.062	.570	1		
FPD-270	FPD-720	1/2	1.3	.625	1.062	.570	1		
FPD-280	FPD-725	1/2	1.5	.625	1.062	.570	1		
FPD-300	FPD-735	1/2	2.0	.625	1.062	.570	1		
FPD-310	FPD-740	1/2	2.3	.625	1.062	.570	1		
FPD-320	FPD-745	1/2	2.5	.625	1.062	.570	1		
FPD-330	FPD-750	1/2	3.0	.625	1.062	.570	1		
FPD-340	—	1/2	3.5	.625	1.062	.570	1		
FPD-350	FPD-760	1/2	4.0	.625	1.062	.570	1		
FPD-360	FPD-765	1/2	5.0	.625	1.062	.570	1		
FPD-370	—	5/8	1.5	.750	1.125	.710	1		
FPD-380	—	5/8	2.0	.750	1.125	.710	1		
—	FPD-780	5/8	2.5	.750	1.125	.710	1		
FPD-400	—	5/8	4.0	.750	1.125	.710	1		
—	FPD-790	5/8	5.0	.750	1.125	.710	1		
FPD-420	FPD-795	3/4	2.0	.937	1.375	.856	1		
FPD-430	—	3/4	2.5	.937	1.375	.856	1		
FPD-440	—	3/4	3.0	.937	1.375	.856	1		
FPD-450	FPD-810	3/4	3.5	.937	1.375	.856	1		
FPD-460	FPD-815	3/4	4.0	.937	1.375	.856	1		
FPD-470	FPD-820	3/4	5.0	.937	1.375	.856	1		
—	FPD-825	1	2.5	1.250	1.500	1.140	1		
FPD-490	FPD-830	1	3.0	1.250	1.500	1.140	1		
FPD-500	FPD-835	1	4.0	1.250	1.500	1.140	1		
FPD-510	—	1	5.0	1.250	1.500	1.140	1		
FPD-520	—	1	6.0	1.250	1.500	1.140	1		

Flanged Receptacles

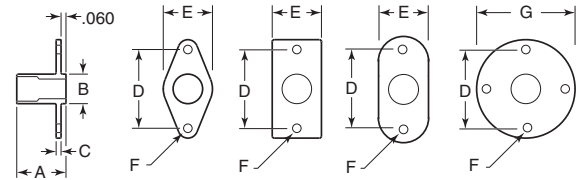


Style A

Style B

Style C

Style D



These flanged receptacles provide a permanent and proper mating hole for all our quick release pins. Designed for use on materials and in applications where the pin does not have anything to lock against. Pin does not protrude past bottom of receptacles, so they are ideal for blind hole applications. Receptacles can be mounted with screws, rivets or bolts. Made from 303 stainless steel.

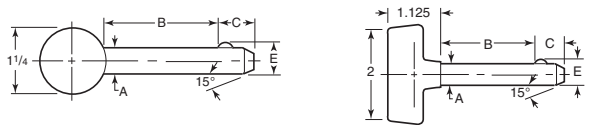
Item No.	Fits Pin Diameter	Style	+/- .010 A	+/- .005 B	+/- .005 C	+/- .010 D	+/- .010 E	Thread F	+/- .010 G	Pack Qty.
SLR-5-303	1/4	A	.650	.375	.060	1.000	.625	6-32	—	1
SLR-10-303	3/16	A	.783	.469	.060	1.000	.625	6-32	—	1
SLR-15-303	3/8	A	.913	.562	.060	1.000	.625	6-32	—	1
SLR-20-303	1/2	A	1.195	.750	.100	1.125	.875	10-32	—	1
SLR-30-303	1/4	B	.650	.375	.060	1.000	.625	6-32	—	1
SLR-35-303	5/16	B	.783	.469	.060	1.000	.625	6-32	—	1
SLR-40-303	3/8	B	.913	.562	.060	1.000	.625	6-32	—	1
SLR-55-303	1/4	C	.650	.375	.060	1.000	.625	6-32	—	1
SLR-60-303	5/16	C	.783	.469	.060	1.000	.625	6-32	—	1
SLR-65-303	3/8	C	.913	.562	.060	1.000	.625	6-32	—	1
SLR-70-303	1/2	C	1.195	.750	.100	1.125	.875	10-32	—	1
SLR-80-303	1/4	D	.650	.375	.060	1.000	—	6-32	1.25	1
SLR-85-303	5/16	D	.783	.469	.060	1.000	—	6-32	1.25	1
SLR-90-303	3/8	D	.913	.562	.060	1.000	—	6-32	1.25	1

Ball & T-Handle Pins
Black Polypropylene



Ball Handle

T-Handle



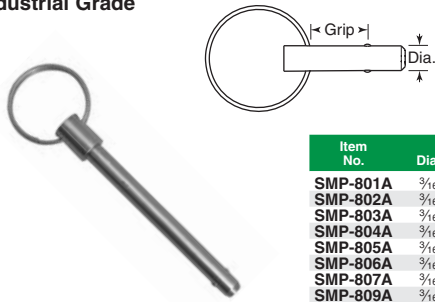
Made of zinc plated 1144 steel, these pins are supplied with a polypropylene handle for better gripping and easier insertion and removal. Handles are black.

Ball Handle		T-Handle		Nom. Dia.	Grip Lgth.	C	E	Pack Qty.
Item No.	Item No.	A	B					
FPF-50	FPF-500	1/4	1	.312	.286	1		
FPF-60	FPF-510	1/4	1.5	.312	.286	1		
FPF-70	FPF-520	1/4	2	.312	.286	1		
FPF-80	FPF-530	1/4	2.5	.312	.286	1		
FPF-90	FPF-540	1/4	3	.312	.286	1		
FPF-110	—	5/16	1.5	.375	.358	1		
—	FPF-570	5/16	2	.375	.358	1		
—	FPF-580	5/16	2.5	.375	.358	1		
FPF-150	FPF-600	3/8	1.5	.500	.426	1		
—	FPF-610	3/8	2	.500	.426	1		
—	FPF-620	3/8	2.5	.500	.426	1		
FPF-180	—	3/8	3	.500	.426	1		
—	FPF-640	3/8	3.5	.500	.426	1		
FPF-200	FPF-650	3/8	4	.500	.426	1		



QUICK RELEASE PINS & ACCESSORIES

Quick Release Ball Lock Pins Detent Style Industrial Grade



Item No.	Dia.	Grip	Pack Qty.
SMP-801A	3/16	1/2	1
SMP-802A	3/16	3/4	1
SMP-803A	3/16	1	1
SMP-804A	3/16	1 1/4	1
SMP-805A	3/16	1 1/2	1
SMP-806A	3/16	1 3/4	1
SMP-807A	3/16	2	1
SMP-809A	3/16	2 1/2	1
SMP-811A	3/16	3	1
SMP-813A	1/4	1/2	1
SMP-814A	1/4	3/4	1
SMP-816A	1/4	1 1/4	1
SMP-817A	1/4	1 1/2	1
SMP-818A	1/4	1 3/4	1
SMP-819A	1/4	2	1
SMP-821A	1/4	2 1/2	1
SMP-823A	1/4	3	1
SMP-827A	1/4	4	1
SMP-830A	3/16	3/4	1
SMP-831A	3/16	1	1
SMP-833A	3/16	1 1/2	1
SMP-839A	3/16	3	1
SMP-846A	3/16	3/4	1
SMP-850A	3/8	1	1
SMP-866A	1/2	1	1
SMP-869A	1/2	1 3/4	1
SMP-872A	1/2	2.5	1

These quick release ball lock pins provide high pull out force and are used for applications that do not require a positive locking ball feature. They have a no button/spindle feature required to be pressed for a pin release.

Bead Chain

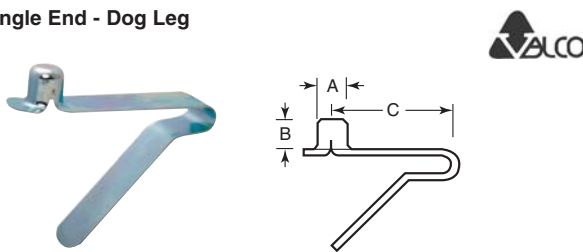


Stainless steel chain with 3/16" ID terminals at each end.

Item No.	Lgth.	Pack Qty.
FPB-3	3	1
FPB-4	4	1
FPB-6	6	1
FPB-8	8	1
FPB-12	12	1

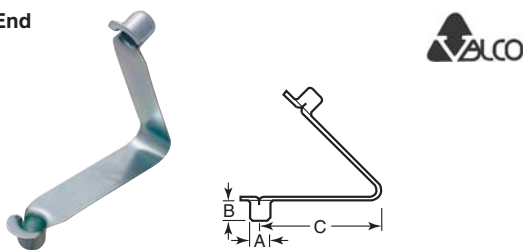
Fasteners for telescoping tubing help reduce assembly time while improving your product. Eliminates the need for rivets and screws. Quickly snap into place in round or square tubing. Snap buttons are made from 1050 spring steel, heat treated and .0002" zinc plated minimum.

Single End - Dog Leg



Item No.	Material Size				Use With Tubing		Pack Qty.	
	A	B	Thickness	Width	Round	Square		
VA-2160	.365	.37	.025	.510	1.80	.60 - 1.12	.52 - 1.12	1

Double End



Item No.	Material Size				Use With Tubing		Pack Qty.	
	A	B	Thickness	Width	Round	Square		
VA-4131	.250	.28	.018	.365	1.52	.62 - .87	.62 - .87	1
VA-4150	.312	.37	.020	.440	2.05	.82 - 1.12	.82 - 1.12	1
VA-4182	.375	.44	.025	.530	2.82	1.00 - 1.87	1.00 - 1.87	1

Recessed Style



Item No.	Dia.	Grip	Pack Qty.	Item No.	Dia.	Grip	Pack Qty.
SMP-400A	3/16	1/2	1	SMP-515A	5/16	4	1
SMP-405A	3/16	3/4	1	SMP-516A	5/16	5	1
SMP-410A	3/16	1	1	SMP-519A	3/8	1/2	1
SMP-415A	3/16	1 1/4	1	SMP-520A	3/8	3/4	1
SMP-420A	3/16	1 1/2	1	SMP-525A	3/8	1	1
SMP-421A	3/16	1 3/4	1	SMP-530A	3/8	1 1/4	1
SMP-425A	3/16	2	1	SMP-535A	3/8	1 1/2	1
SMP-427A	3/16	2 1/2	1	SMP-536A	3/8	1 3/4	1
SMP-435A	1/4	1/2	1	SMP-540A	3/8	2	1
SMP-440A	1/4	3/4	1	SMP-541A	3/8	2 1/4	1
SMP-445A	1/4	1	1	SMP-542A	3/8	5	1
SMP-450A	1/4	1 1/4	1	SMP-543A	3/8	6	1
SMP-455A	1/4	1 1/2	1	SMP-545A	3/8	2 1/2	1
SMP-460A	1/4	1 3/4	1	SMP-550A	3/8	3	1
SMP-465A	1/4	2	1	SMP-561A	1/2	1/2	1
SMP-470A	1/4	2 1/2	1	SMP-562A	1/2	3/4	1
SMP-475A	1/4	3	1	SMP-563A	1/2	1	1
SMP-484A	3/16	1/2	1	SMP-564A	1/2	1 1/4	1
SMP-485A	3/16	3/4	1	SMP-565A	1/2	1 1/2	1
SMP-490A	3/16	1	1	SMP-566A	1/2	1 3/4	1
SMP-495A	3/16	1 1/4	1	SMP-570A	1/2	2	1
SMP-500A	3/16	1 1/2	1	SMP-575A	1/2	2 1/2	1
SMP-505A	3/16	2	1	SMP-585A	1/2	4	1
SMP-507A	3/16	2 1/2	1	SMP-592A	1/2	5	1
SMP-510A	3/16	3	1	SMP-593A	1/2	6	1

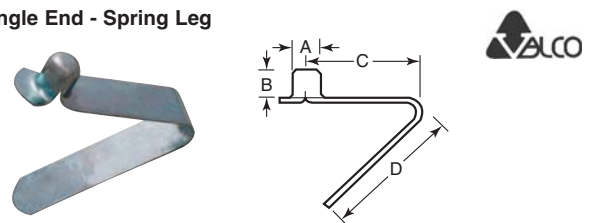
Split Ring



Steel rings are made from hard drawn wire, zinc plated. Stainless are type 316.

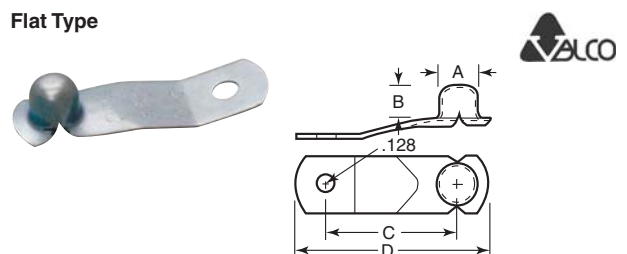
Steel Item No.	Stainless Item No.	Wire Dia.	ID	OD	Pack Qty.
SRH-10	SRH-110	.070	.930	1.076	1
SRH-20	SRH-120	.090	1.160	1.340	1
SRH-30	SRH-130	.105	1.395	1.605	1

Single End - Spring Leg



Item No.	Material Size				Use With Tubing		Pack Qty.		
	A	B	Thickness	Width	Round	Square			
VA-1130	.250	.28	.018	.365	1.17	1.45	.45 - .87	.42 - .87	1
VA-1140	.302	.37	.020	.440	1.65	1.91	.59 - 1.25	.49 - 1.25	1
VA-1161	.365	.37	.025	.510	1.81	2.13	.68 - 1.37	.52 - 1.37	1

Flat Type

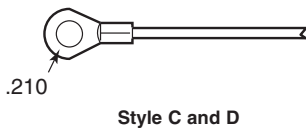
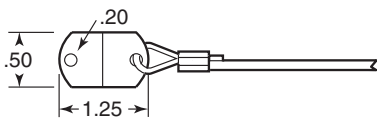
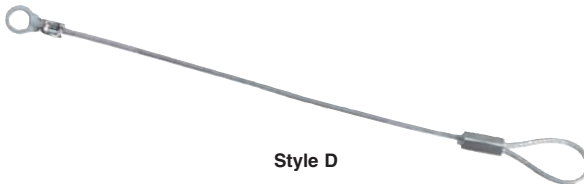
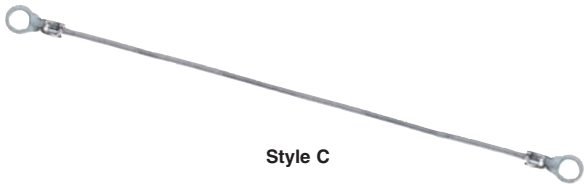
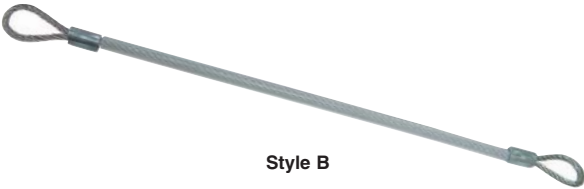
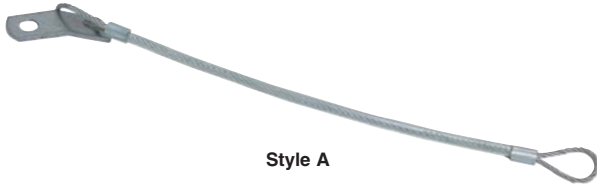


Item No.	Material Size				Hole Dia.	C	D	Pack Qty.
	A	B	Thickness	Width				
VA-6130	.250	.21	.018	.365	.128	.84	1.25	1

Note: Overall length D is for flat position.



Lanyards



These lanyards have a wide variety of uses for attaching pins and small parts. Style A and B are stainless steel cable with nylon coating to 1/16". Tab on Style A is stainless. Style C and D are galvanized steel with nylon coating to 1/16".

Style A	Style B	Style C	Style D		Pack Qty.
Item No.	Item No.	Item No.	Item No.	Lgth.	
FPC-6	FPC-6N	FPC-105	FPC-205	6	1
FPC-8	FPC-8N	FPC-110	FPC-210	8	1
FPC-10	FPC-10N	FPC-115	FPC-215	10	1
FPC-12	FPC-12N	FPC-120	FPC-220	12	1
—	PNC-1*	—	—	12	1
FPC-18	FPC-18N	FPC-125	FPC-225	18	1
FPC-24	FPC-24N	FPC-130	FPC-230	24	1
FPC-1	—	—	—	Tab Only	1

*PNC-1 is 12" cut length. Cable is 1/16" diameter, and made of galvanized steel. Cable is uncrimped on one end for custom installation.

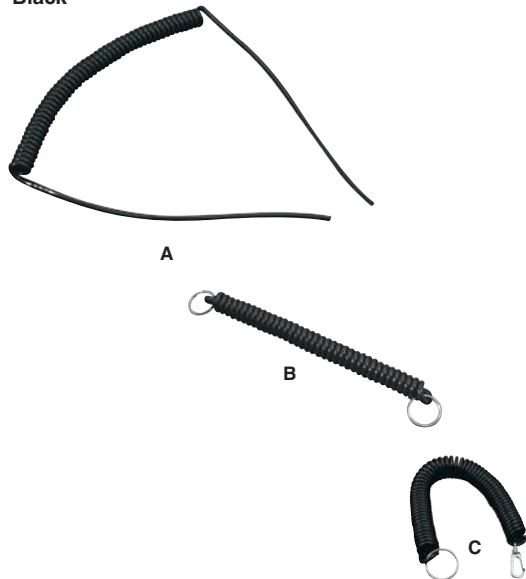
**Bulk Lanyards
Polyurethane
Assorted Colors**



Tool tethers are made from Fre-Thane, a high-quality ether-based polyurethane. This abrasion resistant material is highly flexible and has excellent memory. Fre-Thane will stretch and flex but will return to its original shape, even after continuous use. Bulk lanyards have no hardware fittings or looped ends.

Item No.	O.D. (in.)	Retracted Length (in.)	Working Length (ft.)	Color	Pack Qty.
FLWC-25	.080	27	22	Clear	1
FLWC-30	.080	27	20	Black	1
FLWC-35	.090	27	18.5	Black	1
FLWC-40	.090	27	18.5	Clear	1
FLWC-45	.090	27	18.5	White	1
FLWC-50	.115	27	15.75	Black	1
FLWC-55	.115	27	15.75	Silver	1
FLWC-60	.115	27	15.75	Red	1
FLWC-65	.115	27	15.75	Green	1
FLWC-70	.115	27	15.75	Blue	1
FLWC-75	.115	27	15.75	Yellow	1
FLWC-80	.115	27	15.75	Orange	1
FLWC-85	.115	27	15.75	Clear	1
FLWC-90	.115	27	15.75	White	1
FLWC-95	.115	27	15.75	Purple	1
FLWC-105	.187	30	15.75	Black	1
FLWC-100	.156	30	28	Black	1

**Tool Lanyards
Polyurethane
Black**



These tool lanyards are made from Fre-Thane, a high-quality ether-based polyurethane. This abrasion resistant material is highly flexible and has excellent memory. The tethers will stretch and flex but will return to its original shape, even after continuous use. Available in black only.

- Style A comes with 4.5" perpendicular tails on each end and no hardware.
- Style B comes with a 3/4" split ring on each end.
- Style C comes with a 1" split ring on one end and a snap swivel on the other.

Item No.	Style	O.D. (in.)	Retracted Length (in.)	Working Length (ft.)	Pack Qty.
FLWC-15	A	.115	6	3.8	1
FLWC-20	B	.178	3.2	3.2	1
FLWC-10	C	.156	10	8.2	1



TOOL OR KEY RETRACTORS, LANYARDS & LANYARD KITS

24" Retractor Stainless Steel Chain



24" stainless steel chain. 1 1/8" I.D. split ring and 8-10 ounces of retraction force. Will hold up to 15 keys or other small tools. Pocket watch size and lightweight 2 1/2 oz. Textured chrome case.

Item No.	Description	Pack Qty.
KG-5	Tool or Key Retractor W/Standard Clip	1

24" Chuck Key Retractor Stainless Steel Chain



Chuck key retractor. 24" stainless steel chain. Holds a chuck key or other small tool 8-10 ounces to prevent loss or misplacement. Mounts to surface with two threaded 5/32" screws (not included). Textured chrome case.

Item No.	Description	Pack Qty.
KG-7	Tool or Key Retractor W/Mounting Bracket	1

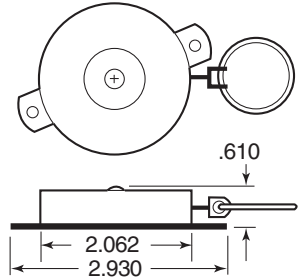
Lanyard Assembly Kits



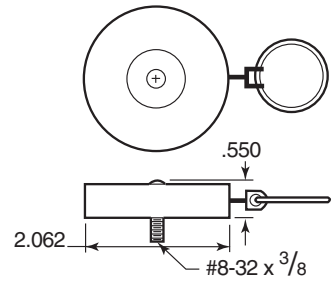
Using miniature stainless cable, you can make your own lanyards, cable assemblies, control cable etc. Each kit contains two sizes of nylon coated stainless steel cable, 15 loop sleeves, 15 ball plugs, 30 threaded plugs and a crimping tool. It is recommended that all assemblies be tested for strength before use.

Item No.	Wire Dia.	Coating O.D.	Strand	Length (Feet)	Pack Qty.
CBL-8020	.036 & .036	.044 & .046	7 x 7 & 7 x 19	25 & 25	1
CBL-8025	3/64 & 3/64	1/16 & 1/16	7 x 7 & 7 x 19	15 & 15	1

48 Inch Retractor Stainless Steel Cable or Kevlar® Cord



Retractor w/Mounting Bracket



Retractor w/Threaded Stud

48 inch nylon covered stainless steel cable. 8-10 ounces of retractor force. Includes 1 1/8 inch diameter split ring for holding keys or gauges. Available with mounting bracket, threaded stud or belt clip. Textured chrome case.

Item No.	Description	Pack Qty.
KG-1	Tool or key retractor w/mounting bracket	1
KG-2	Tool or key retractor w/Kevlar™ Cord and belt clip	1
KG-3	Tool or key retractor w/threaded stud	1

Nylon Lanyards



A one-piece, molded retainer designed for light duty retention. A customer assembled loop is used with a fastener. Made from 100% 3/8 nylon in ultraviolet stabilized black.

Item No.	Eyelet ID	Assembled Length (In.)	Pack Qty.
PPL-226	.260	10	1



Hitch Pins



Styles A and C are made from heat treated steel and zinc plated. Style A has a swivel handle. Style B is a grade 5 forged pin made from heat treated high tensile steel, powder coated. Red vinyl coated head and handle. Style C is bent 15 degree. All pins are drilled and come with a zinc plated hitch pin.

Item No.	Dia.	Grip Lgth.	Pack Qty.	Item No.	Dia.	Grip Lgth.	Pack Qty.
Style A				Style B			
CLP-550	3/8	4	1	WMG-10	1/2	3 3/8	1
CLP-551	1/2	4	1	WMG-15	5/8	4	1
CLP-552	3/8	4	1	WMG-20	3/4	6 1/2	1
CLP-554	3/8	6	1	WMG-30	1	7 1/2	1
CLP-555	3/4	4 1/4	1	Style C			
CLP-557	3/4	6 1/4	1	WMG-35	1/2	3	1
CLP-559	7/8	6 1/2	1	WMG-40	5/8	3	1
CLP-561	1	6 3/4	1	WMG-45	3/4	3 1/2	1
CLP-563	1 1/4	7	1				

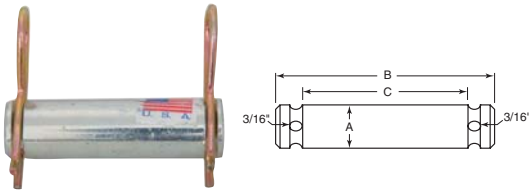
Click Pins



Self-locking ring snaps down to hold them securely in place. Easy grip ring for quick removal. Pin is carbon steel, heat-treated to Rockwell RA 50-60. Ring is hot drawn spring steel with hardness of RC 47-48. Zinc plated.

Item No.	Pin Dia.	Grip Lgth.	Pack Qty.
CLP-580	3/16	1 1/4	1
CLP-581	1/4	1 1/4	1
CLP-582	5/16	1 1/4	1
CLP-584	7/16	1 1/2	1

Hydraulic Cylinder Pins



Easy in and out hydraulic cylinder pin with groove and hole at each end. Hitch pins included. Made from C1144 steel.

Item No.	A	B	C	Pack Qty.	Item No.	A	B	C	Pack Qty.
WMG-405	1	2 7/8	2 1/4	1	WMG-415	1	3 3/4	3 1/4	1
WMG-410	1	3 1/2	2 7/8	1	WMG-420	1 1/4	3 3/8	3 1/4	1

Hitch Pin Assortment Bright Zinc



Item No.	Size	Pack Qty.
MK-MK-22	1 1/4 x 1/16	1
MK-MK-03	1 3/4 x 3/32	1
MK-MK-07	2 1/4 x 3/32	1
MK-MK-16	1 1/2 x 1/8	1
MK-MK-10	2 1/2 x 3/32	1
MK-MK-06	3 1/4 x 3/16	1

Item No.	Qty. in Set	Set Contains	Pack Qty.
MK-150-6	150	SKU Qty.	
		MK-MK-03	30
		MK-MK-06	5
		MK-MK-07	20
		MK-MK-10	15
		MK-MK-16	20
		MK-MK-22	60

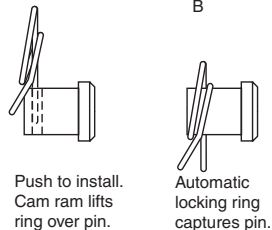
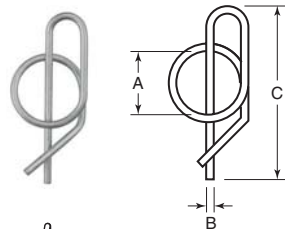
Wire Lock Lynch Pins



These wire lock pins have a pin and cotter in one assembly. The wire loop is pulled over the pin end to lock it in place or remove it. Eliminates cotter pin loss. Headed shank formed of carbon steel. Retainer wire formed of MB spring wire. Zinc plated.

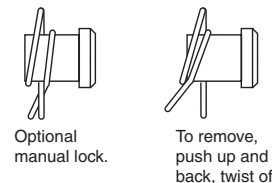
Item No.	Pin Dia.	Grip Lgth.	Pack Qty.	Item No.	Pin Dia.	Grip Lgth.	Pack Qty.
Style A				Style D			
CLP-571	1/4	2 1/2	1	WMG-55	1/4	1 3/4	1
CLP-573	5/16	2 1/2	1	WMG-65	1/4	2 1/2	1
CLP-575	3/8	2 1/2	1	WMG-75	5/16	1 3/4	1
Style B				Style E			
CLP-570	1/4	1 3/4	1	WMG-85	5/16	2 1/2	1
CLP-572	5/16	1 3/4	1	WMG-95	3/8	1 3/4	1
CLP-574	3/8	1 3/4	1	WMG-110	3/8	2 1/2	1
Style C				WMG-115	1/4	2	1
WMG-60	1/4	2 1/2	1	WMG-120	5/16	2 1/4	1
WMG-80	5/16	2 1/2	1	WMG-125	3/8	2 1/4	1
WMG-100	3/8	2 1/4	1				

Automatic Locking Ring Cotter Pins



Push to install. Cam ram lifts ring over pin.

Automatic locking ring captures pin.



Optional manual lock.

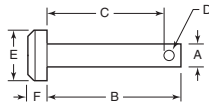
To remove, push up and back, twist off.

These cotter pins surround the shaft for safety. Best used in light to medium applications, these cotter pins install fast without tools. Additional manual secondary lock tensions the cotter pin tight and dampens vibration. Made of hard drawn MB spring wire, zinc plated or stainless Type 302. Easy to install, easy to remove.

Zinc	Stainless	Item No.	Item No.	Fits Shaft Size	A	B	C	Pack Qty.
		RU-8	RU-85	1/4	.267/.257	.041	0.844	1
		RU-14	RU-145	3/8	.392/.382	.054	1.214	1
		RU-24	RU-245	1/2	.520/.510	.072	1.456	1
		RU-30	RU-305	5/8	.645/.635	.072	1.69	1
		RU-36	RU-365	3/4	.770/.760	.091	2.166	1



Clevis Pins Standard



Manufactured to SAE standards (except hole size and point). For use with cotter pins or spring pins. Steel is low carbon 1010 or 1018 steel. Stainless steel is 300 series 18-8 equivalent.

See page 750 for cotter pins.

Steel		Stainless		Steel		Stainless		Steel		Stainless		Steel		Stainless				
Item No.	Item No.	Shank Dia. Tolerance	A	B	C	D	E	F	Item No.	Item No.	Shank Dia. Tolerance	A	B	C	D	E	F	Pack Qty.
CLP-2	CLP-2S	.186/.181	9/16	1/2	23/64	3/32	5/16	1/16	CLP-136	CLP-136S	.373/.368	3/8	2 1/2	2 1/4	5/32	1/2	1/8	1
CLP-4	—	.186/.181	3/16	19/32	29/64	3/32	5/16	1/16	CLP-138	CLP-138S	.373/.368	3/8	2 3/4	2 3/4	5/32	1/2	1/8	1
—	CLP-6S	.186/.181	3/16	5/8	31/64	3/32	5/16	1/16	CLP-140	CLP-140S	.373/.368	3/8	3	2 1/4	5/32	1/2	1/8	1
CLP-8	CLP-8S	.186/.181	3/16	3/4	39/64	3/32	5/16	1/16	CLP-142	—	.373/.368	3/8	3 1/2	3 1/4	5/32	1/2	1/8	1
CLP-10	—	.186/.181	3/16	7/8	47/64	3/32	5/16	1/16	CLP-144	CLP-144S	.373/.368	3/8	4	3 3/4	5/32	1/2	1/8	1
CLP-12	CLP-12S	.186/.181	3/16	1	55/64	3/32	5/16	1/16	CLP-150	—	.436/.431	7/16	1 1/4	1 1/4	5/32	9/16	5/32	1
CLP-14	CLP-14S	.186/.181	3/16	1 1/4	1 1/4	3/32	5/16	1/16	CLP-152	CLP-152S	.436/.431	7/16	1 1/2	1 1/2	5/32	9/16	5/32	1
—	CLP-16S	.186/.181	3/16	1 1/2	1 23/64	3/32	5/16	1/16	—	CLP-156S	.436/.431	7/16	2	1 49/64	5/32	9/16	5/32	1
—	CLP-20S	.186/.181	3/16	2	1 55/64	3/32	5/16	1/16	CLP-160	—	.436/.431	7/16	3	2 49/64	5/32	9/16	5/32	1
CLP-26	—	.248/.243	1/4	1/2	23/64	3/32	3/8	3/32	CLP-162	—	.496/.491	1/2	1	49/64	5/32	5/8	5/32	1
CLP-28	—	.248/.243	1/4	5/8	31/64	3/32	3/8	3/32	CLP-164	CLP-164S	.496/.491	1/2	1 1/4	1 1/4	5/32	5/8	5/32	1
CLP-30	CLP-30S	.248/.243	1/4	3/4	39/64	3/32	3/8	3/32	CLP-166	—	.496/.491	1/2	1 1/2	1 27/64	5/32	5/8	5/32	1
CLP-34	—	.248/.243	1/4	7/8	47/64	3/32	3/8	3/32	CLP-168	CLP-168S	.496/.491	1/2	1 1/2	1 1/2	5/32	5/8	5/32	1
CLP-36	CLP-36S	.248/.243	1/4	1	55/64	3/32	3/8	3/32	CLP-170	CLP-170S	.496/.491	1/2	1 3/4	1 3/4	5/32	5/8	5/32	1
CLP-38	CLP-38S	.248/.243	1/4	1 1/8	63/64	3/32	3/8	3/32	CLP-172	CLP-172S	.496/.491	1/2	2	1 49/64	5/32	5/8	5/32	1
CLP-40	CLP-40S	.248/.243	1/4	1 1/4	1 1/4	3/32	3/8	3/32	CLP-174	CLP-174S	.496/.491	1/2	2 1/4	2 1/4	5/32	5/8	5/32	1
—	CLP-42S	.248/.243	1/4	1 3/8	1 15/64	3/32	3/8	3/32	CLP-176	CLP-176S	.496/.491	1/2	2 1/2	2 1/2	5/32	5/8	5/32	1
CLP-44	CLP-44S	.248/.243	1/4	1 1/2	1 23/64	3/32	3/8	3/32	CLP-180	CLP-180S	.496/.491	1/2	2 3/4	2 3/4	5/32	5/8	5/32	1
—	CLP-46S	.248/.243	1/4	1 5/8	1 31/64	3/32	3/8	3/32	CLP-182	CLP-182S	.496/.491	1/2	3	2 49/64	5/32	5/8	5/32	1
—	CLP-48S	.248/.243	1/4	1 3/4	1 39/64	3/32	3/8	3/32	CLP-184	CLP-184S	.496/.491	1/2	3 1/2	3 1/4	5/32	5/8	5/32	1
CLP-52	CLP-52S	.248/.243	1/4	2	1 55/64	3/32	3/8	3/32	CLP-186	CLP-186S	.496/.491	1/2	4	3 49/64	5/32	5/8	5/32	1
CLP-54	—	.248/.243	1/4	2 1/8	1 63/64	3/32	3/8	3/32	CLP-188	—	.496/.491	1/2	4 1/2	4 1/2	5/32	5/8	5/32	1
—	CLP-56S	.248/.243	1/4	2 1/4	2 1/4	3/32	3/8	3/32	CLP-192	—	.558/.553	9/16	2	1 49/64	5/32	13/16	13/64	1
—	CLP-60S	.248/.243	1/4	2 1/2	2 23/64	3/32	3/8	3/32	CLP-194	—	.621/.616	5/8	1 1/2	1 1/2	5/32	13/16	13/64	1
CLP-62	—	.248/.243	1/4	2 3/4	2 39/64	3/32	3/8	3/32	CLP-196	—	.621/.616	5/8	1 3/4	1 3/4	5/32	13/16	13/64	1
CLP-68	—	.248/.243	1/4	4	3 59/64	3/32	3/8	3/32	CLP-198	—	.621/.616	5/8	2	1 49/64	5/32	13/16	13/64	1
CLP-72	—	.311/.306	5/16	3/4	1 7/32	9/64	7/16	3/32	CLP-200	—	.621/.616	5/8	2 1/4	2 1/4	5/32	13/16	13/64	1
CLP-78	CLP-78S	.311/.306	5/16	1	25/32	9/64	7/16	3/32	CLP-202	—	.621/.616	5/8	2 1/2	2 1/2	5/32	13/16	13/64	1
CLP-82	CLP-82S	.311/.306	5/16	1 1/4	1 1/32	9/64	7/16	3/32	CLP-204	—	.621/.616	5/8	3	2 49/64	5/32	13/16	13/64	1
—	CLP-84S	.311/.306	5/16	1 1/8	1 5/32	9/64	7/16	3/32	CLP-206	—	.621/.616	5/8	3 1/2	3 1/4	5/32	13/16	13/64	1
CLP-86	—	.311/.306	5/16	1 1/2	1 1/32	9/64	7/16	3/32	CLP-208	—	.746/.741	3/4	2	1 49/64	5/32	15/16	1/4	1
CLP-90	—	.311/.306	5/16	1 3/4	1 17/32	9/64	7/16	3/32	CLP-210	—	.746/.741	3/4	2 1/2	2 1/2	5/32	15/16	1/4	1
CLP-92	—	.311/.306	5/16	1 7/8	1 21/32	9/64	7/16	3/32	CLP-212	—	.746/.741	3/4	2 3/4	2 3/4	5/32	15/16	1/4	1
—	CLP-94S	.311/.306	5/16	2	1 29/32	9/64	7/16	3/32	CLP-214	—	.746/.741	3/4	3	2 49/64	5/32	15/16	1/4	1
CLP-96	—	.311/.306	5/16	2 1/8	1 31/32	9/64	7/16	3/32	CLP-216	—	.746/.741	3/4	3 1/2	3 1/4	5/32	15/16	1/4	1
—	CLP-98S	.311/.306	5/16	2 1/4	2 1/32	9/64	7/16	3/32	CLP-218	—	.746/.741	3/4	3 3/4	3 3/4	5/32	15/16	1/4	1
—	CLP-100S	.311/.306	5/16	2 1/2	2 9/32	9/64	7/16	3/32	CLP-220	—	.746/.741	3/4	4	3 49/64	5/32	15/16	1/4	1
CLP-102	—	.311/.306	5/16	2 5/8	2 13/32	9/64	7/16	3/32	CLP-222	—	.746/.741	3/4	4 1/2	4 1/2	5/32	15/16	1/4	1
CLP-104	CLP-104S	.373/.368	3/8	3/4	33/64	5/32	1/2	1/8	CLP-224	—	.746/.741	3/4	6	5 49/64	5/32	15/16	1/4	1
CLP-106	CLP-106S	.373/.368	3/8	1	49/64	5/32	1/2	1/8	CLP-226	—	.996/.991	1	2	1 49/64	13/64	1 3/16	1 1/32	1
CLP-110	CLP-110S	.373/.368	3/8	1 1/8	57/64	5/32	1/2	1/8	CLP-228	—	.996/.991	1	2 1/4	1 61/64	13/64	1 3/16	1 1/32	1
CLP-112	CLP-112S	.373/.368	3/8	1 1/4	1 1/64	5/32	1/2	1/8	CLP-230	—	.996/.991	1	2 1/2	2 13/64	13/64	1 3/16	1 1/32	1
CLP-116	CLP-116S	.373/.368	3/8	1 3/8	1 9/64	5/32	1/2	1/8	CLP-232	—	.996/.991	1	2 3/4	2 29/64	13/64	1 3/16	1 1/32	1
CLP-118	CLP-118S	.373/.368	3/8	1 1/2	1 17/64	5/32	1/2	1/8	CLP-234	—	.996/.991	1	3	2 49/64	13/64	1 3/16	1 1/32	1
CLP-120	CLP-120S	.373/.368	3/8	1 5/8	1 25/64	5/32	1/2	1/8	CLP-236	—	.996/.991	1	3 1/4	2 61/64	13/64	1 3/16	1 1/32	1
CLP-122	CLP-122S	.373/.368	3/8	1 3/4	1 33/64	5/32	1/2	1/8	CLP-238	—	.996/.991	1	3 1/2	3 13/64	13/64	1 3/16	1 1/32	1
CLP-124	—	.373/.368	3/8	1 7/8	1 41/64	5/32	1/2	1/8	CLP-240	—	1.125/1.105	1 1/8	4	3 3/8	1/4	1 3/8	23/64	1
CLP-126	CLP-126S	.373/.368	3/8	2	1 49/64	5/32	1/2	1/8	CLP-242	—	1.125/1.105	1 1/8	5	4 3/8	1/4	1 3/8	23/64	1
CLP-128	—	.373/.368	3/8	2 1/8	1 57/64	5/32	1/2	1/8	CLP-248	—	1.250/1.230	1 1/4	5	4 3/8	1/4	1 1/2	27/64	1
CLP-130	CLP-130S	.373/.368	3/8	2 1/4	2 1/64	5/32	1/2	1/8	CLP-250	—	1.250/1.230	1 1/4	6	5 3/8	1/4	1 1/2	27/64	1
CLP-134	CLP-134S	.373/.368	3/8	2 3/8	2 3/64	5/32	1/2	1/8										

Clevis Pins Adjustable



A multi-hole fastener for quick and easy length adjustments. Made of 1010, 1018 or 1022 steel.

See page 750 for other cotter pins.

Item No.	Dia.	Lgth.	Holes Per Pin	Hole Size	Pack Qty.
CLP-507	1/4	3	7	7/64	1
CLP-517	3/8	2	6	9/64	1

Clevis Pin Assortment



KI-141 — Standard Clevis Pins includes 15 sizes/83 pcs. total:

Qty.	Size	Qty.	Size
10	1/4 x 1	5	3/8 x 1 1/4
10	1/4 x 1 1/4	5	3/8 x 1 1/2
5	5/16 x 1	5	3/8 x 1 3/4
5	5/16 x 1 1/4	5	3/8 x 2
5	5/16 x 1 1/2	5	3/8 x 2 1/2
5	5/16 x 1 3/4	4	1/2 x 1 1/2
5	5/16 x 2	4	1/2 x 1 3/4
5	3/8 x 1		

Assortment comes in a gray metal box drawer.

Item No.	Description	Pack Qty.
KI-141	Standard Clevis Pin Asst.	1

Cotterless Clevis Pins



Self-locking and reusable. Spring loaded locking ball mechanism keeps pin from coming out. Plated steel with a stainless steel ball. Internal rubber ball provides the spring action. Grip length is the length under the head to edge of ball.



Retaining Rings E-Clips



Inch - Bright Zinc		
Item No.	Size	Pack Qty.
MK-E-12	1/8	1
MK-E-15	5/32	1
MK-E-18	3/16	1
MK-E-21	7/32	1
MK-E-25	1/4	1
MK-E-31	5/16	1
MK-E-37	3/8	1
MK-E-43	7/16	1
MK-E-50	1/2	1
MK-E-62	5/8	1
MK-E-75	3/4	1
MK-E-87	7/8	1

Item No.	Qty. in Set	Set Contains	Pack Qty.
MK-260-9	265 pieces	SKU Qty.	1
		MK-E-12 25	
		MK-E-15 20	
		MK-E-18 30	
		MK-E-21 20	
		MK-E-25 30	
		MK-E-31 30	
		MK-E-37 30	
		MK-E-43 30	
		MK-E-50 20	
		MK-E-62 15	
		MK-E-75 10	
MK-E-87 5			

Snap Rings External Type



Inch - Black Phosphate Coated		
Item No.	Size	Pack Qty.
MK-SR-25	1/4	1
MK-SR-31	5/16	1
MK-SR-37	3/8	1
MK-SR-43	7/16	1
MK-SR-50	1/2	1
MK-SR-56	9/16	1
MK-SR-62	5/8	1
MK-SR-75	3/4	1
MK-SR-81	13/16	1
MK-SR-87	7/8	1
MK-SR-100	1	1
MK-SR-125	1 1/4	1

Item No.	Qty. in Set	Set Contains	Pack Qty.
MK-300-12	300 pieces	SKU Qty.	1
		MK-SR-25 30	
		MK-SR-31 20	
		MK-SR-37 50	
		MK-SR-43 20	
		MK-SR-50 50	
		MK-SR-56 20	
		MK-SR-62 30	
		MK-SR-75 35	
		MK-SR-81 10	
		MK-SR-87 20	
		MK-SR-100 10	
MK-SR-125 5			

Inch - Stainless Steel		
Item No.	Size	Pack Qty.
MK-E-12SS	1/8	1
MK-E-15SS	5/32	1
MK-E-18SS	3/16	1
MK-E-21SS	7/32	1
MK-E-25SS	1/4	1
MK-E-31SS	5/16	1
MK-E-37SS	3/8	1
MK-E-43SS	7/16	1
MK-E-50SS	1/2	1
MK-E-62SS	5/8	1
MK-E-75SS	3/4	1
MK-E-87SS	7/8	1

Item No.	Qty. in Set	Set Contains	Pack Qty.
MK-206-12SS	205 pieces	SKU Qty.	1
		MK-E-12SS 25	
		MK-E-15SS 15	
		MK-E-18SS 25	
		MK-E-21SS 15	
		MK-E-25SS 25	
		MK-E-31SS 25	
		MK-E-37SS 25	
		MK-E-43SS 15	
		MK-E-50SS 15	
		MK-E-62SS 10	
		MK-E-75SS 5	
MK-E-87SS 5			

Inch - Stainless Steel		
Item No.	Size	Pack Qty.
MK-SR-25SS	1/4	1
MK-SR-31SS	5/16	1
MK-SR-37SS	3/8	1
MK-SR-43SS	7/16	1
MK-SR-50SS	1/2	1
MK-SR-56SS	9/16	1
MK-SR-62SS	5/8	1
MK-SR-75SS	3/4	1
MK-SR-81SS	13/16	1
MK-SR-87SS	7/8	1
MK-SR-100SS	1	1
MK-SR-125SS	1 1/4	1

Item No.	Qty. in Set	Set Contains	Pack Qty.
MK-195-12SS	195 pieces	SKU Qty.	1
		MK-SR-25SS 25	
		MK-SR-31SS 20	
		MK-SR-37SS 25	
		MK-SR-43SS 15	
		MK-SR-50SS 20	
		MK-SR-56SS 15	
		MK-SR-62SS 25	
		MK-SR-75SS 20	
		MK-SR-81SS 5	
		MK-SR-87SS 15	
		MK-SR-100SS 5	
MK-SR-125SS 5			

Metric - Black Phosphate Coated		
Item No.	Size mm	Pack Qty.
MK-D-1523	2.3	1
MK-D-1532	3.2	1
MK-D-1504	4	1
MK-D-1505	5	1
MK-D-1506	6	1
MK-D-1507	7	1
MK-D-1508	8	1
MK-D-1509	9	1
MK-D-1510	10	1
MK-D-1512	12	1
MK-D-1515	15	1
MK-D-1519	19	1

Item No.	Qty. in Set	Set Contains	Pack Qty.
MK-190-12	190 pieces	SKU Qty.	1
		MK-D-1504 25	
		MK-D-1505 20	
		MK-D-1506 15	
		MK-D-1507 10	
		MK-D-1508 15	
		MK-D-1509 10	
		MK-D-1510 20	
		MK-D-1512 15	
		MK-D-1515 15	
		MK-D-1519 5	
		MK-D-1523 20	
MK-D-1532 20			

Metric - Black Phosphate Coated		
Item No.	Size mm	Pack Qty.
MK-D-1406	6	1
MK-D-1407	7	1
MK-D-1408	8	1
MK-D-1409	9	1
MK-D-1410	10	1
MK-D-1411	11	1
MK-D-1412	12	1
MK-D-1413	13	1
MK-D-1414	14	1
MK-D-1415	15	1
MK-D-1416	16	1
MK-D-1417	17	1
MK-D-1418	18	1
MK-D-1419	19	1
MK-D-1420	20	1
MK-D-1421	21	1
MK-D-1422	22	1
MK-D-1425	25	1

Item No.	Qty. in Set	Set Contains	Pack Qty.
MK-310-18	310 pieces	SKU Qty.	1
		MK-D-1406 30	
		MK-D-1407 15	
		MK-D-1408 30	
		MK-D-1409 15	
		MK-D-1410 30	
		MK-D-1411 15	
		MK-D-1412 30	
		MK-D-1413 10	
		MK-D-1414 20	
		MK-D-1415 10	
		MK-D-1416 30	
MK-D-1417 10			
MK-D-1418 15			
MK-D-1419 15			
MK-D-1420 15			
MK-D-1421 10			
MK-D-1422 5			
MK-D-1425 5			



**Retainer Rings
Black Phosphate Coated**



Item No.	Size	Pack Qty.
MK-RR-50	1/2	1
MK-RR-56	9/16	1
MK-RR-59	19/32	1
MK-RR-62	5/8	1
MK-RR-68	11/16	1
MK-RR-75	3/4	1
MK-RR-87	7/8	1
MK-RR-100	1	1
MK-RR-125	1 1/4	1

Item No.	Qty. in Set	Set Contains	Pack Qty.	
MK-140-9	140 pieces	SKU Qty.	1	
		MK-RR-50		20
		MK-RR-56		20
		MK-RR-59		20
		MK-RR-62		20
		MK-RR-68		15
		MK-RR-75		15
		MK-RR-87		10
		MK-RR-100		10
		MK-RR-125		10

**C-Clips
Bright Zinc**



Item No.	Size	Pack Qty.
MK-C-21	7/32	1
MK-C-25	1/4	1
MK-C-28	9/32	1
MK-C-31	5/16	1
MK-C-37	3/8	1
MK-C-43	7/16	1
MK-C-50	1/2	1
MK-C-62	5/8	1
MK-C-75	3/4	1

Item No.	Qty. in Set	Set Contains	Pack Qty.	
MK-225-9	225 pieces	SKU Qty.	1	
		MK-C-21		25
		MK-C-25		25
		MK-C-28		25
		MK-C-31		25
		MK-C-37		25
		MK-C-43		25
		MK-C-50		25
		MK-C-62		25
		MK-C-75		25

Retaining Ring Plier Kit



MK-4440R includes one each standard internal pliers and external pliers; plus two pair each of the standard replaceable tips listed below.

Item No.	Plier Kit	Pack Qty.
MK-4440R	Plier Kit	1

**Retaining Ring Plier Kit
Replaceable Tips**

Item No.	Tip Diameter	Type	Pack Qty.
MK-4437R	.038	90°	1
MK-4445R	.047	Straight	1
MK-4446R	.047	45°	1
MK-4463R	.070	Straight	1

Housing Rings Internal Type



Inch - Black Phosphate Coated		
Item No.	Size	Pack Qty.
MK-HR-50	1/2	1
MK-HR-62	5/8	1
MK-HR-68	11/16	1
MK-HR-75	3/4	1
MK-HR-81	13/16	1
MK-HR-87	7/8	1
MK-HR-100	1	1
MK-HR-106	1 1/16	1
MK-HR-112	1 1/8	1
MK-HR-125	1 1/4	1
MK-HR-137	1 3/8	1
MK-HR-150	1 1/2	1
MK-HR-162	1 5/8	1
MK-HR-175	1 3/4	1

Item No.	Qty. in Set	Set Contains	Pack Qty.	
MK-150-14	150 pieces	SKU Qty.	1	
		MK-HR-50		15
		MK-HR-62		15
		MK-HR-68		15
		MK-HR-75		15
		MK-HR-81		15
		MK-HR-87		15
		MK-HR-100		10
		MK-HR-106		10
		MK-HR-112		10
		MK-HR-125		10
		MK-HR-137		5
		MK-HR-150		5
		MK-HR-162		5
		MK-HR-175		5

Metric - Black Phosphate Coated		
Item No.	Size mm	Pack Qty.
MK-D-1310	10	1
MK-D-1312	12	1
MK-D-1314	14	1
MK-D-1316	16	1
MK-D-1318	18	1
MK-D-1320	20	1
MK-D-1322	22	1
MK-D-1324	24	1
MK-D-1325	25	1
MK-D-1327	27	1
MK-D-1328	28	1
MK-D-1330	30	1
MK-D-1332	32	1
MK-D-1335	35	1
MK-D-1336	36	1
MK-D-1337	37	1
MK-D-1338	38	1
MK-D-1340	40	1

Item No.	Qty. in Set	Set Contains	Pack Qty.	
MK-174-18	174 pieces	SKU Qty.	1	
		MK-D-1310		15
		MK-D-1312		15
		MK-D-1314		20
		MK-D-1316		20
		MK-D-1318		15
		MK-D-1320		15
		MK-D-1322		10
		MK-D-1324		10
		MK-D-1325		10
		MK-D-1327		5
		MK-D-1328		10
		MK-D-1330		5
		MK-D-1332		5
		MK-D-1335		5
		MK-D-1336		3
		MK-D-1337		3
		MK-D-1338		4
		MK-D-1340		4

Light Duty Retaining Ring Set



Two replaceable tip retaining ring pliers. One external (for shaft diameters 3/8" to 1 1/4"), one internal (for bore diameters 3/8" to 1 1/4"). Includes eight pairs of color coded, interchangeable replacement tips. Comes in a plastic box.

Item No.	Description	Pack Qty.
ABT-68-065	Light Duty Retaining Ring Plier Set	1



FASTENERS
DOWEL PINS

Buy One or
Buy Bulk & SAVE

Dowel Pins



All diameters are +.0002. Rust resistant.

Holo-Krome		Import Line		Dia.	Length
Item No.	Pack Qty.	Item No.	Pack Qty.		
HK-01002B	100	BRB-241085P	100	1/8	3/8
HK-01004B	100	BRB-241088P	100	1/8	1/2
HK-01006B	100	BRB-241091P	100	1/8	5/8
HK-01008B	100	BRB-241094P	100	1/8	3/4
HK-01010B	100	BRB-241097P	100	1/8	7/8
HK-01012B	100	BRB-241100P	100	1/8	1
HK-01014B	100	BRB-241106P	100	1/8	1 1/4
HK-01016B	100	BRB-241112P	100	1/8	1 1/2
HK-01020B	100	BRB-241118P	100	1/8	2
HK-01022B	100	BRB-241121P	100	3/16	1/2
HK-01024B	100	BRB-241124P	100	3/16	5/8
HK-01026B	100	BRB-241127P	100	3/16	3/4
HK-01028B	100	BRB-241130P	100	3/16	7/8
HK-01030B	100	BRB-241133P	100	3/16	1
HK-01032B	100	BRB-241139P	100	3/16	1 1/4
HK-01034B	100	BRB-241145P	100	3/16	1 1/2
HK-01036B	100	BRB-241148P	100	3/16	1 3/4
HK-01038B	100	BRB-241151P	100	3/16	2
HK-01040B	100	BRB-241157P	100	1/4	1/2
HK-01042B	100	BRB-241160P	100	1/4	5/8
HK-01044B	100	BRB-241163P	100	1/4	3/4
HK-01046B	100	BRB-241166P	100	1/4	7/8
HK-01048B	100	BRB-241169P	100	1/4	1
HK-01050B	100	BRB-241175P	100	1/4	1 1/4
HK-01052B	100	BRB-241181P	100	1/4	1 1/2
HK-01054B	100	BRB-241184P	100	1/4	1 3/4
HK-01056B	100	BRB-241187P	100	1/4	2
HK-01058B	100	BRB-241190P	100	1/4	2 1/4
HK-01060B	100	BRB-241193P	100	1/4	2 1/2
HK-01062B	100	BRB-241202P	100	5/16	1/2
HK-01064B	100	BRB-241205P	100	5/16	5/8
HK-01066B	100	BRB-241208P	100	5/16	3/4
HK-01068B	100	BRB-241211P	100	5/16	7/8
HK-01070B	100	BRB-241214P	100	5/16	1
HK-01072B	100	BRB-241220P	100	5/16	1 1/4
HK-01074B	100	BRB-241226P	100	5/16	1 1/2
HK-01076B	100	BRB-241229P	100	5/16	1 3/4
HK-01078B	100	BRB-241232P	100	5/16	2
HK-01080B	100	BRB-241235P	100	5/16	2 1/4
HK-01082B	100	BRB-241238P	100	5/16	2 1/2
HK-01084B	100	BRB-241244P	100	5/16	3
HK-01086B	100	BRB-241247P	100	5/16	3 1/2
HK-01088B	100	BRB-241250P	100	3/8	5/8
HK-01090B	100	BRB-241253P	100	3/8	3/4
HK-01094B	100	BRB-241259P	100	3/8	1
HK-01096B	100	BRB-241262P	100	3/8	1 1/4
HK-01098B	100	BRB-241268P	100	3/8	1 1/2
HK-01100B	40	BRB-241271P	100	3/8	1 3/4
HK-01102B	40	BRB-241274P	100	3/8	2
HK-01104B	40	BRB-241277P	100	3/8	2 1/4
HK-01106B	40	BRB-241280P	100	3/8	2 1/2
HK-01108B	40	BRB-241286P	100	3/8	3
HK-01110B	40	BRB-241295P	100	7/16	1
HK-01112B	40	BRB-241298P	100	7/16	1 1/4
HK-01114B	40	BRB-241301P	100	7/16	1 1/2
HK-01118B	40	BRB-241307P	100	7/16	2
HK-01120B	40	BRB-241313P	50	7/16	2 1/2
HK-01122B	40	BRB-241319P	50	7/16	3
HK-01124B	40	BRB-241322P	100	1/2	3/4
HK-01126B	40	BRB-241325P	100	1/2	1
HK-01128B	40	BRB-241328P	100	1/2	1 1/4
HK-01130B	40	BRB-241331P	100	1/2	1 1/2
HK-01132B	40	BRB-241334P	50	1/2	1 3/4
HK-01134B	40	BRB-241337P	50	1/2	2
HK-01136B	20	BRB-241340P	50	1/2	2 1/4
HK-01138B	20	BRB-241343P	50	1/2	2 1/2
HK-01140B	20	BRB-241349P	50	1/2	3
HK-01142B	20	BRB-241355P	25	1/2	3 1/2
HK-01144B	20	BRB-241361P	25	1/2	4
HK-01146B	10	BRB-241364P	50	3/8	1
HK-01150B	10	BRB-241370P	50	3/8	1 1/2
HK-01152B	10	BRB-241373P	50	3/8	1 3/4
HK-01154B	10	BRB-241376P	50	3/8	2
HK-01158B	10	BRB-241382P	50	3/8	2 1/2
HK-01160B	10	BRB-241388P	25	3/8	3
HK-01162B	10	BRB-241394P	25	3/8	3 1/2
HK-01164B	10	BRB-241400P	25	3/8	4
HK-01170B	10	BRB-241412P	25	3/4	2
HK-01172B	10	BRB-241418P	25	3/4	2 1/2
HK-01174B	10	BRB-241424P	25	3/4	3
HK-01176B	10	BRB-241430P	10	3/4	3 1/2
HK-01178B	10	BRB-241436P	10	3/4	4
HK-01206B	10	BRB-241478P	10	1	3
HK-01210B	10	BRB-241484P	10	1	4

Note: Holo-Krome pins are steel with a black lustre finish. Import Line pins are steel with a bright finish.

Spring Pins
Steel and Stainless Steel
Inch and Metric



Steel are high carbon, Rockwell C46-53. Stainless are Type 420, Rockwell C46-52.

Steel					Stainless				
Item No.	Item No.	Dia	Lgth.	Pack Qty.	Item No.	Item No.	Dia	Lgth.	Pack Qty.
P-1	P-100	1/16	1/4	1	P-37	P-280	1/4	3/8	1
P-2	P-105	1/16	3/8	1	P-38	P-285	1/4	3/4	1
P-3	P-110	1/16	1/2	1	P-40	P-295	1/4	1	1
—	P-115	1/16	3/4	1	P-41	—	1/4	1 1/4	1
P-5	—	1/16	3/4	1	P-42	P-305	1/4	1 1/2	1
P-6	P-125	3/32	3/8	1	P-43	P-310	1/4	1 3/4	1
P-7	P-130	3/32	1/2	1	P-44	P-315	1/4	2	1
P-8	—	3/32	3/4	1	P-45	—	1/4	2 1/2	1
P-9	P-140	3/32	3/4	1	P-46	—	1/4	3	1
P-10	P-145	3/32	1	1	P-47	—	3/16	3/4	1
P-11	—	1/8	3/8	1	P-49	P-340	3/16	1	1
P-12	P-155	1/8	1/2	1	P-51	—	3/16	1 1/2	1
P-13	—	1/8	3/4	1	—	P-355	3/16	1 3/4	1
P-14	P-165	1/8	3/4	1	P-53	—	3/16	2	1
P-15	P-170	1/8	7/8	1	P-54	—	3/16	2 1/2	1
P-16	P-175	1/8	1	1	P-57	—	3/8	1	1
P-17	—	1/8	1 1/4	1	P-59	—	3/8	1 1/2	1
P-18	—	5/32	1/2	1	P-61	—	3/8	2	1
P-20	—	5/32	3/4	1	P-62	P-400	3/8	2 1/4	1
P-23	—	5/32	1 1/4	1	P-63	—	3/8	2 1/2	1
P-24	P-215	3/16	1/2	1	P-64	P-410	3/8	3	1
P-25	—	3/16	5/8	1	P-65	—	3/8	3 1/2	1
P-26	P-225	3/16	3/4	1	P-67	—	1/2	1 1/4	1
P-27	P-230	3/16	7/8	1	P-68	P-430	1/2	1 1/2	1
P-28	P-235	3/16	1	1	P-69	—	1/2	1 3/4	1
P-29	P-240	3/16	1 1/4	1	P-72	—	1/2	2 1/2	1
P-30	P-245	3/16	1 1/2	1	P-73	P-455	1/2	3	1
—	P-255	7/32	3/4	1	P-74	P-460	1/2	3 1/2	1
P-34	—	7/32	1	1					

Pilot Punches



Pilot point of punch fits into hollow center of roll pin, holding the driving shoulder of the punch in perfect contact position. Spring or roll pins are easily removed without scoring hole wall or damaging pins. Made of vanadium steel. Tolerance is +.000"/-.010". Assortments packaged in plastic pouch.

Item No.	Point Size	Pin Lgth.	Overall Lgth.	Pack Qty.	Item No.	Point Size	Pin Lgth.	Overall Lgth.	Pack Qty.
PP-1	1/16	1	2 3/4	1	PP-4	1/8	2	4	1
PP-3	3/32	1 1/2	3 1/2	1					

Pilot Punch Assortments



Item No.	Description	Pack Qty.
PPA-1	Assortment of 12 sizes from 1/16" thru 1/2"	1
PPA-2	Assortment of 9 sizes from 1/16" thru 3/16"	1
PPA-3	Assortment of 6 sizes from 1/8" thru 3/16"	1

Grooved Pins



Solid non-threaded press fit fastener. Grooved pins differ from other press fit fasteners such as dowel pins, in that the holes do not need to be reamed prior to insertion. Commonly used in place of taper pins, rivets, set screws and keys. When the expanded portion of the pin is compressed into a hole a few thousands wider than the nominal diameter of the pin, radial forces lock the pin securely into the drilled hole. Made of low carbon steel, zinc plated with full length tapered grooves for ease of assembly. Diameters below are nominal. Shear strengths are minimum single shear strength in pounds.

Item No.	Diameter	Shear	Length	Pack Qty.	Item No.	Diameter	Shear	Length	Pack Qty.
DL-115	3/32	442	7/8	1	DL-146	3/16	1,790	1 1/4	1
DL-121	1/8	800	3/4	1	DL-147	3/16	1,790	1 1/2	1
DL-123	1/8	800	3/4	1	DL-160	1/4	3,190	1	1
DL-126	1/8	800	1	1	DL-161	1/4	3,190	1 1/4	1
DL-130	5/32	1,240	3/4	1	DL-162	1/4	3,190	1 1/2	1
DL-135	5/32	1,240	1	1	DL-164	1/4	3,190	2	1
DL-141	3/16	1,790	1/2	1	DL-165	1/4	3,190	2 1/2	1
DL-142	3/16	1,790	3/4	1	DL-180	3/8	5,810	1	1
DL-143	3/16	1,790	3/4	1	DL-181	3/8	5,810	1 1/4	1
DL-144	3/16	1,790	7/8	1	DL-185	3/8	5,810	2 1/2	1
DL-145	3/16	1,790	1	1	DL-196	1/2	10,300	3	1



Pull Dowel Removers/Setters



Remover/Setter Tool



Extension Rod

Designed for removing and setting any pull dowel up to one inch diameter. Puller studs are threaded into the pull dowel and puller. An upward hammering motion with the slide handle is used to remove the dowel and a downward motion is used to set the dowels.

Item No.	Description	Pack Qty.	Item No.	Description	Pack Qty.
PD-1210	Remover/Setter Tool	1	PD-1245	M5 x .8 Stud	1
PD-1215	8-32 Stud	1	PD-1250	M6 x 1 Stud	1
PD-1220	10-32 Stud	1	PD-1255	M8 x 1.25 Stud	1
PD-1225	1/4-20 Stud	1	PD-1260	M10 x 1.5 Stud	1
PD-1230	5/16-18 Stud	1	PD-1285**	5 1/2" Extension Rod	1
PD-1235	3/8-16 Stud	1	PD-1205*	Set of All Above	1
PD-1240	M4 x .7 Stud	1			

*This set includes the universal puller studs
**Not included in the PD-1205 set

Universal Puller Studs



Used with the remover/setter tool PD-1210. The puller studs fit over cap screws. These puller studs are included in the PD-1205 assortment. PD-1270 works with cap screws M4, M5, M6, 8-32, 10-32 and 1/4". PD-1275 works with cap screws M8, M10, 5/16" and 3/8". PD-1280 works with M16 only.

Item No.	Description	Pack Qty.
PD-1270	Small Universal Puller Stud	1
PD-1275	Large Universal Puller Stud	1
PD-1280	M16 Puller Stud	1

Note: Remover/setter tool and universal puller studs must be purchased separately.

Pull Dowels



Heat treated alloy steel. 6 RMS micro inch finish with rust resistance. Fully polished. Surface hardness Rockwell C 60-64, core hardness C 50-58. Average shear strength 150,000 psi. Diameter +.0002. Roundness .00005 T.I.R.

Item No.	Dia.	Overall Lgth.	Internal Thread	Pack Qty.	Item No.	Dia.	Overall Lgth.	Internal Thread	Pack Qty.
HK-04012	1/4	1 1/2	8-32	1	HK-04060	1/2	1 1/4	1/4-20	1
HK-04026	5/16	1	10-32	1	HK-04062	1/2	1 1/2	1/4-20	1
HK-04028	5/16	1 1/4	10-32	1	HK-04064	1/2	1 3/4	1/4-20	1
HK-04030	5/16	1 1/2	10-32	1	HK-04066	1/2	2	1/4-20	1
HK-04034	5/16	2	10-32	1	HK-04078	5/8	1 1/2	1/4-20	1
HK-04042	3/8	1	10-32	1	HK-04082	5/8	2	1/4-20	1
HK-04044	3/8	1 1/4	10-32	1	HK-04094	3/4	2	5/16-18	1
HK-04046	3/8	1 1/2	10-32	1	HK-04096	3/4	2 1/2	5/16-18	1
HK-04050	3/8	2	10-32	1	HK-04098	3/4	3	5/16-18	1
HK-04058	1/2	1	1/4-20	1					

**Pull Dowels
Inch and Metric**



Smooth Style



With Flat Style

These pull dowels have a tapped hole which permits easy removal. The style with flat has a ground flat on one side of the pin for easy removal. O.D. on the inch sizes is ground to +.0001"/.0003". Heat treated to RC58-62 min. Metric pins are ground to M6 tolerance. Metric dimensions are shown in millimeters.

Item No.	Dia.	Overall Length	Tap Size	Pack Qty.	Item No.	Dia.	Overall Length	Tap Size	Pack Qty.
Smooth - Inch					Smooth - Metric				
PD-5	1/4	1/2	8-32	1	PD-370	10	30	M6 x 1	1
PD-10	1/4	3/4	8-32	1	PD-380	10	40	M6 x 1	1
PD-15	1/4	1	8-32	1	PD-395	10	60	M6 x 1	1
PD-20	1/4	1 1/4	8-32	1	PD-405	12	30	M6 x 1	1
PD-25	1/4	1 1/2	8-32	1	PD-415	12	35	M6 x 1	1
PD-30	1/4	2	8-32	1	PD-420	12	40	M6 x 1	1
PD-35	1/4	2 1/2	8-32	1	PD-430	12	50	M6 x 1	1
PD-40	3/16	1/2	10-32	1	PD-440	12	70	M6 x 1	1
PD-45	3/16	3/4	10-32	1	PD-455	16	40	M8 x 1.25	1
PD-50	3/16	1	10-32	1	PD-475	16	80	M8 x 1.25	1
PD-55	3/16	1 1/4	10-32	1	PD-480	20	40	M10 x 1.5	1
PD-60	3/16	1 1/2	10-32	1	PD-485	20	50	M10 x 1.5	1
PD-70	3/16	2	10-32	1	PD-490	20	60	M10 x 1.5	1
PD-75	3/16	2 1/2	10-32	1	With-Flat - Inch				
PD-80	3/8	3/4	10-32	1	PD-605	1/4	1/2	8-32	1
PD-85	3/8	1	10-32	1	PD-610	1/4	3/4	8-32	1
PD-90	3/8	1 1/4	10-32	1	PD-615	1/4	1	8-32	1
PD-95	3/8	1 1/2	10-32	1	PD-620	1/4	1 1/4	8-32	1
PD-100	3/8	1 3/4	10-32	1	PD-625	1/4	1 1/2	8-32	1
PD-105	3/8	2	10-32	1	PD-635	1/4	2	8-32	1
PD-110	3/8	2 1/2	10-32	1	PD-640	1/4	2 1/2	8-32	1
PD-115	3/8	3	10-32	1	PD-660	3/16	1 1/4	10-32	1
PD-120	7/16	1	1/4-20	1	PD-665	3/16	1 1/2	10-32	1
PD-125	7/16	1 1/2	1/4-20	1	PD-685	3/8	1	10-32	1
PD-130	7/16	2	1/4-20	1	PD-690	3/8	1 1/4	10-32	1
PD-135	1/2	1	1/4-20	1	PD-695	3/8	1 1/2	10-32	1
PD-140	1/2	1 1/4	1/4-20	1	PD-700	3/8	1 3/4	10-32	1
PD-145	1/2	1 1/2	1/4-20	1	PD-705	3/8	2	10-32	1
PD-150	1/2	1 3/4	1/4-20	1	PD-715	3/8	2 1/2	10-32	1
PD-155	1/2	2	1/4-20	1	PD-720	3/8	3	10-32	1
PD-160	1/2	2 1/2	1/4-20	1	PD-735	7/16	2	1/4-20	1
PD-165	1/2	3	1/4-20	1	PD-740	1/2	1	1/4-20	1
PD-170	5/8	1 1/2	5/16-18	1	PD-745	1/2	1 1/4	1/4-20	1
PD-175	5/8	2	5/16-18	1	PD-750	1/2	1 1/2	1/4-20	1
PD-185	5/8	2 1/2	5/16-18	1	PD-755	1/2	1 3/4	1/4-20	1
PD-190	5/8	3	5/16-18	1	PD-760	1/2	2	1/4-20	1
PD-195	3/4	1 1/2	5/16-18	1	PD-765	1/2	2 1/2	1/4-20	1
PD-200	3/4	2	5/16-18	1	PD-770	1/2	3	1/4-20	1
PD-205	3/4	2 1/2	5/16-18	1	PD-775	1/2	3 1/2	1/4-20	1
PD-210	3/4	3	5/16-18	1	PD-795	5/8	2 1/2	1/4-20	1
PD-215	3/4	3 1/2	5/16-18	1	PD-780	5/8	1 1/2	5/16-18	1
PD-220	3/4	4	5/16-18	1	PD-785	5/8	2	5/16-18	1
PD-225	1	2	5/16-18	1	PD-805	3/4	1 1/2	5/16-18	1
PD-230	1	2 1/2	5/16-18	1	PD-810	3/4	2	5/16-18	1
PD-235	1	3	5/16-18	1	PD-820	3/4	3	5/16-18	1
PD-240	1	4	5/16-18	1	PD-835	1	2	5/16-18	1
Smooth - Metric					With-Flat - Metric				
PD-250	6	10	M4 x .70	1	PD-870	6	20	M4 x .70	1
PD-255	6	16	M4 x .70	1	PD-880	6	25	M4 x .70	1
PD-260	6	20	M4 x .70	1	PD-905	6	50	M4 x .70	1
PD-270	6	25	M4 x .70	1	PD-925	8	25	M5 x .80	1
PD-275	6	30	M4 x .70	1	PD-930	8	30	M5 x .80	1
PD-290	6	40	M4 x .70	1	PD-980	10	30	M6 x 1	1
PD-300	8	16	M5 x .80	1	PD-990	10	40	M6 x 1	1
PD-305	8	20	M5 x .80	1	PD-1005	10	60	M6 x 1	1
PD-310	8	24	M5 x .80	1	PD-1015	12	30	M6 x 1	1
PD-315	8	25	M5 x .80	1	PD-1040	12	50	M6 x 1	1
PD-320	8	30	M5 x .80	1	PD-1045	12	60	M6 x 1	1
PD-325	8	32	M5 x .80	1	PD-1070	16	50	M8 x 1.25	1
PD-350	8	50	M5 x .80	1					
PD-365	10	25	M6 x 1	1					

Taper Pin Assortments

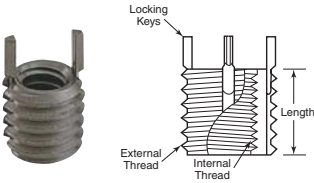


Precision manufactured from 12L14 bar stock. Taper is 1/4" per one foot.

Item No.	Description	Sizes	Pack Qty.
GLH-501	100 Pc. Asst.	#0 to #5, 3/4 to 2" Long	1
GLH-502	200 Pc. Asst.	#6/0 to #6, 1/2 to 2" Long	1
GLH-503	90 Pc. SS Asst.	#1 to #7, 1 to 4" Long	1



KEYLOCKING THREADED INSERTS



Installation Data	
Step 1: Drill out hole to allow full tap depth shown in the description. Note the tap drill is oversized.	
Step 2: Countersink to specifications in the chart.	
Step 3: Tap hole to specifications in the chart.	
Step 4: Screw in insert (by hand) to .010" to .030" below surface.	
Step 5: Drive down locking keys with installation tool.	

Stainless inserts are 303, passivated. Internal threads are class 2B, external threads are 2A. Inserts with internal thread size 5/16 or M7 and larger have four locking keys. Smaller sizes have two locking keys. Solid inserts allow you to relocate or fill in holes that are too large. All the inserts listed are in stock for same day shipment.

Keylocking Threaded Inserts
Inch

Insert External Thread Class 2A	Installation Data			Removal Data	
	Tap Drill Size	C'Sink Dia. +.010 -.000	Thread Tap Class 2B	Drill Size	Depth
5/16-18	I	.32	5/16-18	7/32	1/8
3/8-16	Q	.38	3/8-16	9/32	1/8
7/16-14	X	.44	7/16-14	11/32	3/16
1/2-13	29/64	.51	1/2-13	13/32	3/16
9/16-12	39/64	.57	9/16-12	15/32	3/16
5/8-11	39/64	.63	5/8-11	17/32	3/16
3/4-16	49/64	.76	3/4-16	21/32	3/16
7/8-14	59/64	.88	7/8-14	25/32	3/16
1-12	15/16	1.02	1-12	27/32	3/16
1 1/8-12	1 1/16	1.14	1 1/8-12	31/32	3/16
1 1/4-12	1 1/8	1.27	1 1/4-12	1 1/32	3/16
1 3/8-12	1 1/8	1.39	1 3/8-12	1 1/32	3/16
1 1/2-12	1 1/8	1.52	1 1/2-12	1 11/32	3/16
1 5/8-12	1 1/8	1.64	1 5/8-12	1 19/32	3/16
1 3/4-12	1 13/16	1.89	1 3/4-12	1 27/32	3/16

See page 757 for kits.

Steel		Stainless		Internal Thread	External Thread	Lgth.	Min. Tap Depth	Pack Qty.	Installation Tool Item No.
Item No.	Item No.	Item No.	Item No.						
Thinwall									
KLI-65921	KLI-66321	10-24	5/16-18	.31	.37	1	KLI-64721		
KLI-66121	KLI-66521	10-32	5/16-18	.31	.37	1	KLI-64721		
KLI-65922	KLI-66322	1/4-20	3/8-16	.37	.43	1	KLI-64722		
KLI-66122	KLI-66522	1/4-28	3/8-16	.37	.43	1	KLI-64722		
KLI-65923	KLI-66323	5/16-18	3/16-14	.43	.50	1	KLI-64723		
KLI-66123	KLI-66523	5/16-24	3/16-14	.43	.50	1	KLI-64723		
KLI-65924	KLI-66324	3/8-16	1/2-13	.50	.56	1	KLI-64724		
KLI-66124	KLI-66524	3/8-24	1/2-13	.50	.56	1	KLI-64724		
KLI-65925	—	7/16-14	5/8-12	.56	.62	1	KLI-64725		
KLI-66125	KLI-66525	7/16-20	5/8-12	.56	.62	1	KLI-64725		
KLI-65926	KLI-66326	1/2-13	5/8-11	.62	.68	1	KLI-64726		
KLI-66126	KLI-66526	1/2-20	5/8-11	.62	.68	1	KLI-64726		
Heavy Duty									
KLI-65900	KLI-66300	8-32	5/16-18	.31	.37	1	KLI-64700		
KLI-65901	KLI-66301	10-24	3/8-16	.31	.37	1	KLI-64701		
KLI-66101	KLI-66501	10-32	3/8-16	.31	.37	1	KLI-64701		
KLI-65902	KLI-66302	1/4-20	7/16-14	.37	.43	1	KLI-64702		
KLI-66102	KLI-66502	1/4-28	7/16-14	.37	.43	1	KLI-64702		
KLI-65903	KLI-66303	5/16-18	1/2-13	.43	.50	1	KLI-64703		
KLI-66103	KLI-66503	5/16-24	1/2-13	.43	.50	1	KLI-64703		
KLI-65904	KLI-66304	3/8-16	5/8-12	.50	.56	1	KLI-64704		
KLI-66104	KLI-66504	3/8-24	5/8-12	.50	.56	1	KLI-64704		
KLI-65905	KLI-66305	7/16-14	5/8-11	.62	.68	1	KLI-64705		
KLI-66105	KLI-66505	7/16-20	5/8-11	.62	.68	1	KLI-64705		
KLI-65906	KLI-66306	1/2-13	3/4-16	.62	.68	1	KLI-64706		
KLI-66106	KLI-66506	1/2-20	3/4-16	.62	.68	1	KLI-64706		
KLI-65907	KLI-66307	5/8-12	3/4-16	.81	.94	1	KLI-64707		
KLI-65908	KLI-66308	5/8-11	7/8-14	.87	1.00	1	KLI-64708		
KLI-66108	KLI-66508	5/8-18	7/8-14	.87	1.00	1	KLI-64708		
KLI-65909	KLI-66309	3/4-10	1 1/8-12	1.12	1.31	1	KLI-64709		
KLI-66109	KLI-66509	3/4-16	1 1/8-12	1.12	1.31	1	KLI-64709		
KLI-65910	KLI-66310	7/8-9	1 1/4-12	1.25	1.44	1	KLI-64710		
KLI-66110	—	7/8-14	1 1/4-12	1.25	1.44	1	KLI-64710		
KLI-65911	KLI-66311	1-8	1 3/8-12	1.37	1.56	1	KLI-64711		
KLI-66111	—	1-14	1 3/8-12	1.37	1.56	1	—		
KLI-65913	—	1 1/8-7	1 1/2-12	1.62	1.84	1	KLI-64713		
KLI-65914	—	1 1/4-7	1 3/8-12	1.81	2.06	1	KLI-64714		
KLI-66114	—	1 1/4-12	1 3/8-12	1.81	2.06	1	KLI-64714		
KLI-65916	—	1 1/2-6	1 7/8-12	2.00	2.28	1	KLI-64716		
KLI-66116	—	1 1/2-12	1 7/8-12	2.00	2.28	1	KLI-64716		
Extra Heavy Duty									
KLI-65931	—	6-32	5/16-18	.31	.37	1	KLI-64731		
KLI-65934	KLI-66334	1/4-20	1/2-13	.37	.43	1	KLI-64734		
KLI-65935	KLI-66335	5/16-18	5/8-12	.43	.50	1	KLI-64735		
KLI-65936	KLI-66336	3/8-16	5/8-11	.50	.56	1	KLI-64736		
KLI-66136	—	3/8-24	5/8-11	.50	.56	1	KLI-64736		
KLI-65938	KLI-66338	1/2-13	7/8-14	.68	.75	1	KLI-64738		
KLI-65940	—	5/8-11	1-12	.87	1.00	1	KLI-64740		
KLI-66140	—	5/8-18	1-12	.87	1.00	1	KLI-64740		
KLI-65941	—	3/4-10	1 1/4-12	1.12	1.31	1	KLI-64741		
KLI-66141	—	3/4-16	1 1/4-12	1.12	1.31	1	KLI-64741		
Solid									
KLI-66001	—	—	5/16-18	.31	.37	1	KLI-64801		
KLI-66002	—	—	3/8-16	.31	.37	1	KLI-64802		
KLI-66004	—	—	1/2-13	.43	.50	1	KLI-64804		
KLI-66006	—	—	5/8-11	.62	.68	1	KLI-64806		
KLI-66007	—	—	3/4-16	.68	.68	1	KLI-64807		
KLI-66008	—	—	7/8-14	.87	1.00	1	KLI-64808		
KLI-66009	—	—	1-12	.87	1.00	1	KLI-64809		
KLI-66010	—	—	1 1/8-12	1.12	1.31	1	KLI-64810		

Note: Keylocking inserts can be removed without damage to the parent material: drill insert to the size and depth shown in the removal chart, then bend off keys and extract with an E-Z out or similar tool.

Quickly repair stripped, damaged or worn out threads with a new stronger thread using keylocking inserts. Keylocking inserts are easily installed using standard drills and taps. Once the locking keys are driven down, the insert is tightly locked and will not turn. Steel inserts are C1215, parkerized.

Keylocking Threaded Inserts
Metric

Insert External Thread Class 6g Dia. Pitch	Installation Data		Removal Data		
	Tap Drill Size	C' Sink + .25 - .00	Thread Tap Class 6H	Drill Size	Depth
M8 x 1.25	6.9	8.25	M8 x 1.25	5.5	4.00
M10 x 1.25	8.8	10.25	M10 x 1.25	7.5	4.75
M12 x 1.25	10.8	12.25	M12 x 1.25	9.5	4.75
M14 x 1.5	12.8	14.25	M14 x 1.5	11.5	4.75
M16 x 1.5	14.75	16.25	M16 x 1.5	13.5	4.75
M18 x 1.5	16.75	18.25	M18 x 1.5	15.5	4.75
M20 x 1.5	18.75	20.25	M20 x 1.5	17.5	4.75
M22 x 1.5	20.5	22.25	M22 x 1.5	17.75	6.35
M24 x 1.5	22.5	24.25	M24 x 1.5	19.75	6.35
M30 x 2.0	28.0	30.25	M30 x 2.0	25.75	6.35
M32 x 2.0	30.0	32.25	M32 x 2.0	27.75	6.35
M33 x 2.0	31.0	33.25	M33 x 2.0	28.75	6.35

Steel		Stainless		Internal Thread	External Thread	Lgth.	Min. Tap Depth	Pack Qty.	Installation Tool Item No.
Item No.	Item No.	Item No.	Item No.						
Thinwall									
KLI-65951	KLI-66351	M5 x .8	M8 x 1.25	8	9.5	1	KLI-64751		
KLI-65952	KLI-66352	M6 x 1.0	M10 x 1.25	10	11.5	1	KLI-64752		
KLI-65953	KLI-66353	M8 x 1.25	M12 x 1.25	12	13.5	1	KLI-64753		
KLI-66153	KLI-66553	M8 x 1.0	M12 x 1.25	12	13.5	1	KLI-64753		
KLI-65955	KLI-66355	M10 x 1.5	M14 x 1.5	14	15.5	1	KLI-64755		
KLI-66155	—	M10 x 1.25	M14 x 1.5	14	15.5	1	KLI-64755		
KLI-65956	KLI-66356	M12 x 1.75	M16 x 1.5	16	17.5	1	KLI-64756		
Solid									
KLI-66023	—	—	M12 x 1.25	12	14.5	1	KLI-64823		
KLI-66026	—	—	M18 x 1.5	18	20.5	1	KLI-64826		
Heavy Duty									
KLI-65963	KLI-66363	M4 x .7	M8 x 1.25	8	9.5	1	KLI-64763		
KLI-65964	KLI-66364	M5 x .8	M10 x 1.25	10	12.5	1	KLI-64764		
KLI-65965	KLI-66365	M6 x 1.0	M12 x 1.25	12	14.5	1	KLI-64765		
KLI-65966	KLI-66366	M8 x 1.25	M14 x 1.5	14	16.5	1	KLI-64766		
KLI-66166	—	M8 x 1.0	M14 x 1.5	14	16.5	1	KLI-64766		
KLI-65967	KLI-66367	M10 x 1.5	M16 x 1.5	16	18.5	1	KLI-64767		
KLI-66167	—	M10 x 1.25	M16 x 1.5	16	18.5	1	KLI-64767		
KLI-65969	KLI-66369	M12 x 1.75	M18 x 1.5	18	20.5	1	KLI-64769		
KLI-66169	—	M12 x 1.25	M18 x 1.5	18	20.5	1	KLI-64769		
KLI-65970	—	M14 x 2.0	M20 x 1.5	20	22.5	1	KLI-64770		
KLI-66170	—	M14 x 1.5	M20 x 1.5	20	22.5	1	KLI-64770		
KLI-65971	KLI-66371	M16 x 2.0	M22 x 1.5	22	24.5	1	KLI-64771		
KLI-66171	—	M16 x 1.5	M22 x 1.5	22	24.5	1	KLI-64771		
KLI-66172	—	M18 x 1.5	M24 x 1.5	24	26.5	1	KLI-64772		
KLI-65973	—	M20 x 2.5	M30 x 2.0	30	34.5	1	KLI-64773		
KLI-66173	—	M20 x 1.5	M30 x 2.0	30	34.5	1	KLI-64773		
KLI-66174	—	M22 x 1.5	M32 x 2.0	32	36.5	1	KLI-64774		
KLI-65975	—	M24 x 3.0	M33 x 2.0	33	37.5	1	KLI-64775		

Thread Repair Tools



Quickly repairs damaged bolts. Twisting the handle opens and closes the floating blades around bolt. Rotating the tool around the bolt quickly repairs damaged threads. Adjusts to different diameters, inch or metric. Blades automatically adapt to any thread pitch, or groove. Can be used on right hand or left hand threads. Replacement blade kits available.

Item No.	Description	Pack Qty.
NES-2	Extra Small Rethreader 5/32 - 1/16" (4-18mm)	1
NES-3	Small Rethreader 1/4 - 3/8" (6-19mm)	1
NES-1R	Rethreader Replacement	2
NES-2R	Rethreader Replacement	2

TAPS & KEYLOCKING THREADED INSERTS



Taps Plug and Bottoming Styles



Plug Style



Bottoming Style

All inch taps are class 2B and all metric taps are 5H. Straight flute. Plug style is four thread chamfer and bottoming style is two thread chamfer.

Plug Style		Bottoming Style		Thread	Pack Qty.
Item No.	Helicoil	Item No.	Helicoil		
Coarse Threads					
TI-7002	02CPA	TI-7302	02CBA	2-56	1
TI-7010	04CPA	TI-7310	04CBA	4-40	1
TI-7020	05CPA	—	—	5-40	1
TI-7030	06CPA	TI-7330	06CBA	6-32	1
TI-7040	2CPA	TI-7340	2CBA	8-32	1
TI-7050	3CPA	TI-7350	3CBA	10-24	1
TI-7070	4CPA	—	—	1/4-20	1
TI-7080	5CPA	TI-7380	5CBA	3/16-18	1
TI-7090	6CPA	TI-7390	6CBA	3/8-16	1
TI-7100	7CPA	—	—	7/16-14	1
TI-7110	8CPA	TI-7410	8CBA	1/2-13	1
TI-7120	38187-9	—	—	5/16-12	1
TI-7130	18187-10	TI-7430	20187-10	3/8-11	1
TI-7140	18187-12	TI-7440	20187-12	3/4-10	1
TI-7150	18187-14	—	—	7/8-9	1
TI-7160	18187-16	TI-7460	20187-16	1-8	1
Fine Threads					
TI-7510	3FPA	TI-7600	3FBA	10-32	1
TI-7520	4FPA	TI-7610	4FBA	1/4-28	1
TI-7530	5FPA	TI-7620	5FBA	5/16-24	1
TI-7540	6FPA	TI-7630	6FBA	3/8-24	1
TI-7550	7FPA	TI-7640	7FBA	7/16-20	1
TI-7560	8FPA	—	—	1/2-20	1
TI-7580	18193-10	TI-7670	20193-10	5/8-18	1
TI-7590	18193-12	—	—	3/4-16	1
Metric Threads					
TI-7810	2087-5	TI-7870	2093-5	M5 x .8	1
TI-7820	2087-6	TI-7880	2093-6	M6 x 1	1
TI-7840	2087-8	TI-7900	2093-8	M8 x 1.25	1
TI-7850	2087-10	TI-7910	2093-10	M10 x 1.50	1
TI-7860	2087-12	TI-7920	2093-12	M12 x 1.75	1

Taps Spiral Pointed Plug Style



Class 2B threads.
Four thread chamfer.

Item No.	Helicoil	Thread	Pack Qty.	Item No.	Helicoil	Thread	Pack Qty.
Coarse Threads				Fine Threads			
TI-70500	04CSA	4-40	1	TI-70700	3FSA	10-32	1
TI-70520	06CSA	6-32	1	TI-70710	4FSA	1/4-28	1
TI-70530	2CSA	8-32	1	TI-70730	6FSA	3/8-24	1
TI-70540	3CSA	10-24	1				
TI-70560	4CSA	1/4-20	1				
TI-70570	5CSA	5/16-18	1				
TI-70580	6CSA	3/8-16	1				
TI-70600	8CSA	1/2-13	1				

Taps Assortment Insert Kits - Inch and Metric



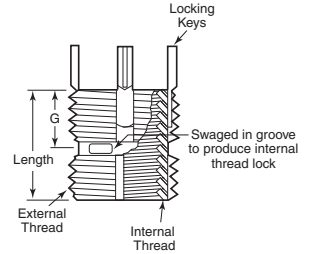
Contains the specified number of inserts and installation tools in a plastic case. Inch are heavy duty. Metric are thin wall type.

See page 756 for individual sizes and installation and removal instructions.

Inch				Metric			
Internal Thread Size	External Thread Size	Qty. of Inserts Per Kit		Internal Thread Size	External Thread Size	Qty. of Inserts Per Kit	
Coarse Series	Fine Series						
10-24	10-32	5		M5 x 0.8	M8 x 1.25	8	
1/4-20	1/4-28	10		M6 x 1.0	M10 x 1.25	8	
5/16-18	5/16-24	10		M8 x 1.25	M12 x 1.25	6	
3/8-16	3/8-24	10		M8 x 1.0	M12 x 1.25	6	
1/2-13	1/2-20	10		M10 x 1.5	M14 x 1.5	4	
5/8-11	5/8-18	10		M10 x 1.25	M14 x 1.5	4	
3/4-10	3/4-16	5		M12 x 1.75	M16 x 1.5	3	
				M12 x 1.25	M16 x 1.5	3	

Item No.	Description	Pack Qty.
Inch		
KLI-64951	Coarse Threads - Steel	1
KLI-64952	Fine Threads - Steel	1
Metric		
KLI-64983	Metric Thread Kit	1

Internal Locking Stainless Steel Inch and Metric



Similar to the keylocking inserts shown on the previous pages except the inserts have a swaged in groove to produce an internal thread lock. This internal thread lock eliminates the need for other thread locking devices. Made from 303 stainless, passivated. Metric dimensions are shown in millimeters.

See page 756 for installation and removal instructions.

Item No.	Internal Thread	External Thread	Lgth.	G	Min. Tap Depth	Pack Qty.	Installation Tools	Item No.
Thin Wall - Inch								
KLI-71321	10-24	5/16-18	.31	.15	.37	1		KLI-64721
KLI-71521	10-32	3/8-18	.31	.15	.37	1		KLI-64721
KLI-71322	1/4-20	3/8-16	.37	.18	.43	1		KLI-64722
KLI-71522	1/4-28	3/8-16	.37	.18	.43	1		KLI-64722
KLI-71323	5/16-18	7/16-14	.43	.21	.50	1		KLI-64723
KLI-71324	3/8-16	1/2-13	.50	.25	.56	1		KLI-64724
Thin Wall - Metric								
KLI-71353	M8x1.25	M12x1.25	12	6	13.5	1		KLI-64753
Heavy Duty - Inch								
KLI-71300	8-32	5/16-18	.31	.15	.37	1		KLI-64700
KLI-71301	10-24	3/8-16	.31	.15	.37	1		KLI-64701
KLI-71501	10-32	3/8-16	.31	.15	.37	1		KLI-64701
KLI-71302	1/4-20	7/16-14	.37	.18	.43	1		KLI-64702
KLI-71303	5/16-18	1/2-13	.43	.21	.50	1		KLI-64703
KLI-71304	3/8-16	1/2-12	.50	.25	.56	1		KLI-64704

Single Size Kits



Each kit contains inserts of one size per box and includes the quantity of inserts below. Also included, one installation tool and installation and removal instructions. All are heavy duty style.

See page 756 for individual sizes and installation and removal instructions.

Steel	Stainless	Item No.	Item No.	Internal Thread	External Thread	Lgth.	Inserts Per Kit	Pack Qty.
KLI-67900	—	—	—	8-32	5/16-18	.31	9	1
KLI-68101	—	—	—	10-32	3/8-16	.31	9	1
KLI-67902	KLI-68302	—	—	1/4-20	7/16-14	.37	8	1
KLI-67903	KLI-68303	—	—	5/16-18	1/2-13	.43	7	1
KLI-68103	—	—	—	3/8-24	1/2-13	.43	7	1
KLI-67904	KLI-68304	—	—	3/8-16	9/16-12	.50	6	1
KLI-68105	—	—	—	1/2-20	3/8-11	.62	6	1
KLI-67906	—	—	—	1/2-13	3/4-16	.62	4	1
KLI-67908	—	—	—	5/8-11	7/8-14	.87	3	1
KLI-67909	—	—	—	3/4-10	1 1/2-12	1.12	3	1



Thread Repair Kits New Style



Each kit provides everything you need to install Helicoil inserts; three different lengths of inserts (1 x diameter, 1 1/2 x diameter and 2 x diameter). Quantities in each kit are listed below. Also included is a tap, an installation tool, a drill and a tang removal tool. All items are packed in a plastic case.

Table with 10 columns: Item No., Helicoil, Thread Size, Inserts per Kit, Pack Qty., Item No., Helicoil, Thread Size, Inserts per Kit, Pack Qty. It lists various thread repair kits categorized into Coarse Threads, Metric Coarse Threads, and Fine Threads.

Thread Repair Kits Economy Kit



An easy and economical solution for repairing or reinforcing threaded holes in metal. Kit comes with a tap, 10 inserts and a combination installation and tang break tool. Replacement coil inserts sold separately.

Table with 10 columns: Item No., Thread Size, Inserts per Kit, Pack Qty., Item No., Thread Size, Inserts per Kit, Pack Qty. It lists economy thread repair kits categorized into Coarse Threads, Metric Coarse Threads, and Fine Threads.

There are two types of hand installation tools available for installing Helicoil inserts: threaded mandrel and prewinder types. The prewinder is used for fine threads because the inserts must be reduced in diameter before they will thread into the tapped hole. This is accomplished by winding them through a set of threads, called a prewinder at the front of the tool. Coarse threads can be installed with a threaded mandrel. The same tools are used for standard and screw lock inserts.

Hand Inserting Tools Economy Style



For UNF Threads



For Coarse and Metric Threads

These are the same insert tools sold in the installation kits. Good for occasional use and low quantities.

Table with 10 columns: Item No., Helicoil, Thread, Pack Qty., Item No., Helicoil, Thread, Pack Qty. It lists hand inserting tools categorized into Coarse Threads and Fine Threads.

Production Style



Type I - Threaded Mandrel 2-56



Type II - Prewinder #4 thru 1/2" UNC #10 thru 3/8" UNF M2.5 thru M12 M8 thru M12



Type III - Threaded Mandrel 3/16" thru 1 1/2" UNC M18 thru M39

These insert tools are for more frequent use and larger quantities.

Table with 10 columns: Item No., Helicoil, Type, Thread, Pack Qty., Item No., Helicoil, Type, Thread, Pack Qty. It lists production style insert tools categorized into Coarse Threads, Fine Threads, and Metric Threads.

COIL THREADED INSERTS



Coil Threaded Inserts



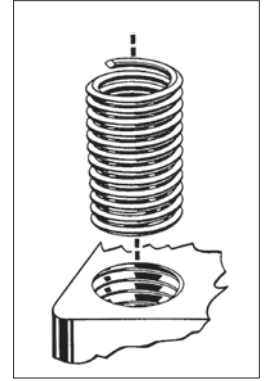
Free Running
Coarse Thread



Screw Locking
Fine Thread



Free Running
Fine Thread



Quickly and permanently restore stripped, worn and damaged threads in any material. Coil tension securely holds the insert in place without undue tension on the surrounding material. They are vibration and impact resistant and will not strip or seize. All inserts are made from 18-8 stainless with a hardness of RC 43-50 and tensile strength above 200,000 psi. Screw-locking inserts have a series of straight segments to provide self-locking torque on the bolt, eliminating the need for other thread locking devices.

Free		Screw				Free		Screw				Free	
Item No.	Helicoil	Item No.	Helicoil	Thread	Lgth.	Pack Qty.	Item No.	Helicoil	Item No.	Helicoil	Thread	Lgth.	Pack Qty.
Coarse													
TI-05	1185-02CN086	TI-605	3585-02CN-086	2-56	0.086	1	TI-2130	1191-3CN190	TI-2630	3591-3CN190	10-32	0.19	1
TI-10	1185-02CN129	---	---	2-56	0.129	1	TI-2140	1191-3CN285	TI-2640	3591-3CN285	10-32	0.285	1
TI-15	1185-02CN172	---	---	2-56	0.172	1	TI-2150	1191-3CN380	TI-2650	3591-3CN380	10-32	0.38	1
---	---	TI-670	3585-04CN112	4-40	0.112	1	TI-2160	1191-4CN250	TI-2660	3591-4CN-250	1/4-28	0.25	1
TI-80	1185-04CN168	TI-680	3585-04CN168	4-40	0.168	1	TI-2170	1191-4CN375	TI-2670	3591-4CN-375	1/4-28	0.375	1
TI-90	1185-04CN224	TI-690	3585-04CN224	4-40	0.224	1	TI-2180	1191-4CN500	---	---	1/4-28	0.5	1
TI-120	1185-05CN250	---	---	5-40	0.25	1	TI-2190	1191-5CN312	---	---	5/16-24	0.312	1
TI-130	1185-06CN138	---	---	6-32	0.138	1	TI-2200	1191-5CN469	---	---	5/16-24	0.469	1
TI-140	1185-06CN207	TI-740	3585-06CN207	6-32	0.207	1	TI-2210	1191-5CN625	---	---	5/16-24	0.625	1
TI-150	1185-06CN276	TI-750	3585-06CN276	6-32	0.276	1	TI-2230	1191-6CN562	---	---	3/8-24	0.562	1
TI-160	1185-2CN164	---	---	8-32	0.164	1	TI-2240	1191-6CN750	---	---	3/8-24	0.75	1
TI-170	1185-2CN246	TI-770	3585-2CN246	8-32	0.246	1	TI-2250	1191-7CN438	---	---	7/16-20	0.438	1
TI-180	1185-2CN328	TI-780	3585-2CN328	8-32	0.328	1	TI-2260	1191-7CN656	---	---	7/16-20	0.656	1
TI-190	1185-3CN190	---	---	10-24	0.19	1	TI-2270	1191-7CN875	---	---	7/16-20	0.875	1
TI-200	1185-3CN285	TI-800	3585-3CN285	10-24	0.285	1	TI-2300	1191-8CN1000	---	---	1/2-20	1	1
TI-210	1185-3CN380	TI-810	3585-3CN380	10-24	0.38	1	TI-2320	1191-9CN844	---	---	9/16-18	0.844	1
TI-250	1185-4CN250	TI-850	3585-4CN250	1/4-20	0.25	1	TI-2340	1191-10CN625	---	---	5/8-18	0.625	1
TI-260	1185-4CN375	TI-860	3585-4CN375	1/4-20	0.375	1	TI-2350	1191-10CN938	---	---	5/8-18	0.938	1
TI-270	1185-4CN500	TI-870	3585-4CN500	1/4-20	0.5	1	TI-2370	1191-12CN750	---	---	3/4-16	0.75	1
TI-280	1185-5CN312	---	---	5/16-18	0.312	1	TI-2380	1191-12CN1125	---	---	3/4-16	1.125	1
TI-290	1185-5CN469	TI-890	3585-5CN469	5/16-18	0.469	1	Metric						
TI-300	1185-5CN625	---	---	5/16-18	0.625	1	TI-3070	1084-5CN050	---	---	M5 x .8	5.0	1
TI-310	1185-6CN375	---	---	3/8-16	0.375	1	TI-3080	1084-5CN075	---	---	M5 x .8	7.5	1
TI-320	1185-6CN562	TI-920	3585-6CN562	3/8-16	0.562	1	TI-3090	1084-5CN100	---	---	M5 x .8	10.0	1
TI-330	1185-6CN750	TI-930	3585-6CN750	3/8-16	0.75	1	TI-3100	1084-6CN060	---	---	M6 x 1.0	6.0	1
TI-350	1185-7CN656	---	---	7/16-14	0.656	1	TI-3110	1084-6CN090	TI-3700	4184-6CN090	M6 x 1.0	9.0	1
TI-370	1185-8CN500	---	---	1/2-13	0.5	1	TI-3120	1084-6CN120	TI-3710	4184-6CN120	M6 x 1.0	12.0	1
TI-380	1185-8CN750	TI-980	3585-8CN750	1/2-13	0.75	1	TI-3160	1084-8CN080	---	---	M8 x 1.25	8.0	1
TI-390	1185-8CN1000	TI-990	3585-8CN1000	1/2-13	1	1	TI-3170	1084-8CN120	TI-3760	4184-8CN120	M8 x 1.25	12.0	1
TI-440	1185-10CN938	---	---	5/8-11	0.938	1	TI-3180	1084-8CN160	TI-3770	4184-8CN160	M8 x 1.25	16.0	1
TI-470	1185-12CN1125	---	---	3/4-10	1.125	1	TI-3190	1084-10CN100	---	---	M10 x 1.5	10.0	1
TI-480	1185-12CN1500	---	---	3/4-10	1.5	1	TI-3200	1084-10CN150	---	---	M10 x 1.5	15.0	1
TI-490	1185-14CN875	---	---	7/8-9	0.875	1	TI-3210	1084-10CN200	TI-3800	4184-10CN200	M10 x 1.5	20.0	1
TI-500	1185-14CN1312	---	---	7/8-9	1.312	1	TI-3220	1084-12CN120	---	---	M12 x 1.75	12.0	1
TI-530	1185-16CN1500	---	---	1-8	1.5	1	TI-3230	1084-12CN180	---	---	M12 x 1.75	18.0	1
---	---	---	---	---	---	---	TI-3240	1084-12CN240	---	---	M12 x 1.75	24.0	1

Tang Break Off Tools



The driving tangs of Helicoil inserts must be removed to prevent interference with the end of the assembled bolt. For inserts over 1/2" use long nose pliers.

Item No.	Helicoil	Thread	Pack Qty.	Item No.	Helicoil	Thread	Pack Qty.
Coarse Threads				Fine & Coarse Threads			
TI-8105	3695-02	2-56, 3-48	1	TI-8140*	3695-3	10-24, 10-32, 12-24	1
TI-8110	3695-04	4-40, 5-40	1	TI-8150*	3695-4	1/4-20	1
TI-8120	3695-06	6-32	1	Metric Threads			
TI-8130	3695-2	8-32	1	TI-8310	4238-5	M5	1
TI-8160	3695-5	5/16-18	1	TI-8320	4238-6	M6	1
---	---	---	---	TI-8340	4238-8	M8	1

*TI-8140 and TI-8150 can be used on both coarse and fine threads.

Extracting Tools



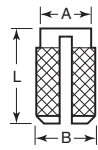
The extracting tools are used to remove Helicoil inserts. This is done by applying the tool to the insert, striking the head of tool and turning it counter clockwise.

Item No.	Helicoil	Thread	Pack Qty.
TI-8005	1227-02	#2	1
TI-8010	1227-06	#3 to #8	1
TI-8020	1227-6	#10 to #6, M5 to M10	1
TI-8030	1227-16	7/16 to 1; M11 to M24	1



Press Inserts for Plastics

Use for cored or drilled holes in plastics. Designed to replace molded-in inserts and threads in plastic castings. Provides clean threads and screw locking action not obtainable in molded-in inserts. Saves time and money. Available in brass or Type 303 stainless steel.

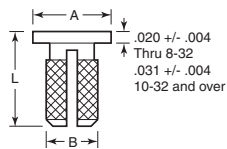
Press Inserts for Plastics
Headless

E-Z LOK

Brass		Stainless		Internal Thread	+/- .010 A	+/- .004 B	+/- .010 L	Starting Hole Size	Pack Qty.
Item No.	Item No.	Item No.	Item No.						
EZ-200	—	—	—	0-80	.094	.104	.125	.094 (3/32)	1
EZ-204	EZ-304	—	—	4-40	.156	.166	.188	.156 (5/32)	1
EZ-206	EZ-306	—	—	6-32	.187	.199	.250	.188 (3/16)	1
EZ-208	EZ-308	—	—	8-32	.218	.230	.313	.219 (7/32)	1
EZ-210	EZ-310	—	—	10-32	.250	.262	.375	.250 (1/2)	1
EZ-212	—	—	—	10-24	.250	.262	.375	.250 (1/2)	1
EZ-214	EZ-314	—	—	1/4-20	.312	.326	.500	.313 (5/16)	1
EZ-216	EZ-316	—	—	3/16-18	.375	.389	.563	.375 (3/8)	1
EZ-218	EZ-318	—	—	5/16-16	.437	.451	.625	.438 (7/16)	1
EZ-220	—	—	—	M3 x .5	.156	.166	.188	.156 (5/32)	1
EZ-224	—	—	—	M4 x .7	.218	.230	.313	.219 (7/32)	1
EZ-226	—	—	—	M5 x .8	.250	.262	.375	.250 (1/2)	1
EZ-228	—	—	—	M6 x 1.0	.312	.326	.500	.313 (5/16)	1
—	EZ-302	—	—	2-56	.125	.135	.156	.125 (1/2)	1

Note: Hole sizes are based on average materials and torque requirements.

Note 2: Hole sizes may vary with the material used and the screw dimensions may vary with different standards.

Press Inserts for Plastics
Headless

E-Z LOK

Recommended for use in terminal strips and like applications in electronic assemblies.

Brass		Stainless		Internal Thread	+/- .010 A	+/- .004 B	+/- .010 L	Starting Hole Size	Pack Qty.
Item No.	Item No.	Item No.	Item No.						
EZ-600	EZ-700	—	—	2-56	.187	.135	.156	.125 (1/2)	1
EZ-602	EZ-702	—	—	4-40	.218	.166	.188	.156 (5/32)	1
EZ-604	EZ-704	—	—	6-32	.249	.199	.250	.188 (3/16)	1
EZ-606	EZ-706	—	—	8-32	.280	.230	.313	.219 (7/32)	1
EZ-608	EZ-708	—	—	10-32	.312	.262	.375	.250 (1/2)	1
EZ-610	EZ-710	—	—	1/4-20	.375	.326	.500	.313 (5/16)	1
EZ-612	—	—	—	3/16-18	.437	.389	.563	.375 (3/8)	1
EZ-614	—	—	—	5/16-16	.500	.451	.625	.438 (7/16)	1

Note: Hole sizes are based on average materials and torque requirements.

Note 2: Hole sizes may vary with the material used and the screw dimensions may vary with different standards.

Knife Thread Inserts for Wood

Superior holding power in hard and soft woods, particle board and other wood products. Long pilot assures straight driving into a drilled hole. Install with screw driver, bolt and nut, tapping head or E-Z Lok power drive tool. Brass only.

E-Z LOK

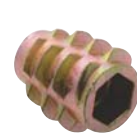


Item No.	Internal Thread Size	Overall Length	Major Dia. External Thd.	Hole Size	Drive Tool Used	Pack Qty.
Coarse Threads - Inch						
EZ-2	4-40	.375	.350	1/4	—	1
EZ-4	6-32	.375	.350	1/4	500-0	1
EZ-6	8-32	.375	.350	1/4	500-1	1
EZ-8	10-24	.5	.453	3/8	500-2	1
EZ-10	10-32	.5	.453	3/8	500-2	1
EZ-12	1/4-20	.5	.453	3/8	500-3	1
EZ-14	3/16-18	.625	.600	1/2	500-4	1
EZ-16	3/8-16	.625	.600	1/2	500-5	1
Fine Threads - Inch						
EZ-11	1/4-28	.5	.453	3/8	500-3	1
EZ-13	5/16-24	.625	.600	1/2	500-4	1
EZ-15	3/8-24	.625	.600	1/2	500-5	1
Metric						
EZ-17	M3 x .5	.375	.350	1/4	500-0	1
EZ-18	M4 x .7	.375	.350	1/4	500-1	1
EZ-19	M5 x .8	.500	.453	3/8	500-2	1
EZ-20	M6 x 1.0	.500	.453	3/8	500-3	1
EZ-21	M8 x 1.25	.625	.600	1/2	500-4	1

Hex Drive Inserts for Wood

E-Z LOK

Inexpensive inserts for use in ready-to-assemble furniture, drawer pulls, etc. Install with hex drive wrench or E-Z Lok power drive tool. Die cast zinc alloy.



Flushed



Flanged

Flushed		Flanged		Internal Thread	Lgth.	Hole Size	Hex Size	Drive Tool Used	Pack Qty.
Item No.	Item No.	Item No.	Item No.						
EZ-111	EZ-100	—	—	8-32	.394	.236	.157	500-10	1
—	EZ-101	—	—	10-24	.433	.276	.157	500-10	1
EZ-112	—	—	—	10-24	.512	.276	.197	500-12	1
—	EZ-115	—	—	10-24	.787	.276	.197	500-12	1
—	EZ-116	—	—	10-32	.433	.276	.197	500-12	1
EZ-113	EZ-117	—	—	10-32	.512	.276	.197	500-12	1
—	EZ-118	—	—	10-32	.787	.276	.197	500-12	1
EZ-106	EZ-102	—	—	1/4-20	.512	.354	.236	500-11	1
EZ-108	EZ-104	—	—	1/4-20	.787	.354	.236	500-11	1
—	EZ-119	—	—	1/4-20	.984	.354	.236	500-11	1
—	EZ-105	—	—	5/16-18	.512	.433	.315	500-13	1
EZ-109	—	—	—	5/16-18	.787	.433	.315	500-13	1
EZ-114	EZ-120	—	—	5/16-18	.984	.433	.315	500-13	1
—	EZ-121	—	—	3/8-16	.512	.472	.394	500-14	1
—	EZ-107	—	—	3/8-16	.984	.472	.394	500-14	1

Brass Finserts for Wood or Plastics

E-Z LOK



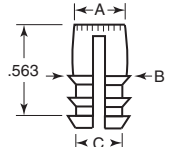
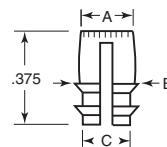
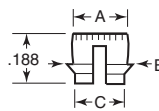
Type A



Type B



Type C



Provides strong metal threads for wood, composition board and thermoplastics such as nylon, polystyrene, cellulose, acetate and cicolac. Firm, permanent fastening is assured by distributing stress over a greater surface area. Fins give higher holding strength in softer materials and prevents splintering, splitting and thread pullout.

Item No.	Type	Thread Size	A	B	C	Starting Hole Size	Pack Qty.
EZ-170-2	A	6-32	.210	.237	.189	.205 (#5)	1
EZ-170-4	A	8-32	.236	.263	.215	.234 (15/64)	1
EZ-170-6	A	10-32	.263	.290	.242	.261 (G)	1
EZ-270-4	B	8-32	.236	.263	.215	.234 (15/64)	1
EZ-270-6	B	10-32	.263	.290	.242	.261 (G)	1
EZ-270-8	B	10-24	.263	.290	.242	.261 (G)	1
EZ-270-10	B	1/4-20	.330	.357	.309	.328 (21/64)	1
EZ-370-2	C	10-32	.347	.368	.318	.344 (11/32)	1
EZ-370-4	C	1/4-20	.409	.431	.381	.406 (13/32)	1
EZ-370-6	C	5/16-18	.471	.493	.443	.469 (15/32)	1

Thread Repair Kits
Installation Kits

E-Z LOK

This kit provides a complete thread repair solution with the right size drill and tap for the needed insert. Each kit includes 20 inserts, one tap, one drill and an installation tool.

Item No.	Internal Thread	Drill Size	Tap Size	Pack Qty.
EZ-250	10-24	I	5/16-18	1
EZ-251	1/4-20	Q	3/8-16	1
EZ-252	3/16-18	X	7/16-14	1
EZ-253	3/8-16	29/64	1/2-13	1
EZ-254	7/16-14	39/64	9/16-12	1
EZ-255	1/2-13	37/64	5/8-11	1
EZ-256	10-32	I	5/16-18	1
EZ-257	1/4-28	Q	3/8-16	1
EZ-258	5/16-24	X	7/16-14	1
EZ-259	3/8-24	29/64	1/2-13	1
EZ-260	7/16-20	39/64	9/16-12	1
EZ-261	1/2-20	37/64	5/8-11	1



THREAD INSERTS & REPAIR KITS

Self-Locking Individual Inserts

Automatic self-locking external thread with use-activated epoxy adhesive.



- Prevent/repair stripped threads.
- No special tools required.
- Install with bolt and wrench or screwdriver
- Power drive tools available for volume use

E-Z LOK

Item No.	Internal Thread Size	Tap Drill Size	Tap Size External Thread	Lgth.	Drive Tool Used	Pack Qty.	Item No.	Internal Thread Size	Tap Drill Size	Tap Size External Thread	Lgth.	Drive Tool Used	Pack Qty.
Steel - Thin Wall - Coarse Thread							303 Stainless Steel Passivated - Coarse Thread						
319-3	10-24	.272	5/16-18	.312	500-2	1	303-4	1/4-20	23/64	7/16-14	.437	500-3	1
319-4	1/4-20	.332	3/8-16	.375	500-3	1	303-5	5/16-18	27/64	1/2-13	.484	500-4	1
319-5	5/16-18	.397	7/16-14	.437	500-4	1	303-6	3/8-16	31/64	9/16-12	.515	500-5	1
319-6	3/8-16	.453	1/2-13	.500	500-5	1	303-7	7/16-14	17/32	5/8-11	.656	500-6	1
319-7	7/16-14	.516	9/16-12	.560	500-6	1	303-8	1/2-13	21/32	3/4-10	.656	500-7	1
319-8	1/2-13	.578	5/8-11	.620	500-7	1	303-10	5/8-11	49/64	7/8-9	.687	500-8	1
Steel - Thin Wall - Fine Thread							303 Stainless Steel Passivated - Fine Thread						
319-332	10-32	.272	5/16-18	.312	500-2	1	303-12	3/4-10	7/8	1-8	.781	500-9	1
319-428	1/4-28	.332	3/8-16	.375	500-3	1	303-332	10-32	5/16	3/8-16	.406	500-2	1
319-524	5/16-24	.397	7/16-14	.437	500-4	1	303-428	1/4-28	29/64	7/16-14	.437	500-3	1
319-624	3/8-24	.453	1/2-13	.500	500-5	1	303-624	3/8-24	31/64	9/16-12	.515	500-5	1
319-720	7/16-20	.516	9/16-12	.560	500-6	1	303-720	7/16-20	17/32	5/8-11	.656	500-6	1
319-820	1/2-20	.578	5/8-11	.620	500-7	1	303-820	1/2-20	21/32	3/4-10	.656	500-7	1
Steel - Coarse Thread							Steel						
329-004	4-40	5/32	10-32	.250	—	1	550-006	6-32	5.1	M6 x 1.0	6.5	—	1
329-006	6-32	#7	1/4-20	.280	—	1	550-008	8-32	6.9	M8 x 1.25	7.5	500-1	1
329-008	8-32	F	5/16-18	.290	500-1	1	550-3	10-24	8.6	M10 x 1.5	10.5	500-2	1
329-3	10-24	5/16	3/8-16	.406	500-2	1	550-332	10-32	8.6	M10 x 1.5	10.5	500-2	1
329-4	1/4-20	23/64	7/16-14	.437	500-3	1	550-4	1/4-20	10.4	M12 x 1.75	12.5	500-3	1
329-5	5/16-18	27/64	1/2-13	.484	500-4	1	550-5	5/16-18	10.4	M12 x 1.75	12.5	500-4	1
329-6	3/8-16	31/64	9/16-12	.515	500-5	1	550-6	3/8-16	14.0	M16 x 2.0	17.0	500-5	1
329-7	7/16-14	17/32	5/8-11	.656	500-6	1	550-8	7/16-14	14.0	M16 x 2.0	17.0	500-7	1
329-8	1/2-13	21/32	3/4-10	.656	500-7	1	650-6	M6 x 1.0	5.1	3/8-16	.406	500-3	1
329-9	9/16-12	21/32	3/4-10	.656	500-7	1	650-8	M8 x 1.25	27/64	1/2-13	.484	500-4	1
329-10	5/8-11	49/64	7/8-9	.687	500-8	1	650-10	M10 x 1.50	31/64	9/16-12	.515	500-5	1
329-1018	5/8-11	49/64	7/8-9	1.125	500-8	1	650-10F	M10 x 1.25	31/64	9/16-12	.515	500-5	1
329-12	3/4-10	7/8	1-8	.781	500-9	1	650-12	M12 x 1.75	21/32	3/4-10	.656	500-6	1
329-14	7/8-9	1 1/64	1 1/4-7	1.125	—	1	650-14	M14 x 2.0	49/64	7/8-9	.687	500-7	1
329-16	1-8	1 1/32	1 3/8-12	1.250	—	1	650-16	M16 x 2.0	7/8	1-8	.781	500-8	1
Steel - Fine Thread							303 Stainless Steel Passivated						
329-332	10-32	5/16	3/8-16	.406	500-2	1	450-3	M3 x .5	5.1	M6 x 1.0	6.5	—	1
329-428	1/4-28	23/64	7/16-14	.437	500-3	1	450-4	M4 x .7	6.9	M8 x 1.25	7.5	500-1	1
329-524	5/16-24	27/64	1/2-13	.484	500-4	1	450-5	M5 x .8	6.9	M8 x 1.25	7.5	500-1	1
329-624	3/8-24	31/64	9/16-12	.515	500-5	1	450-6	M6 x 1.0	8.6	M10 x 1.5	10.5	500-3	1
329-720	7/16-20	17/32	5/8-11	.656	500-6	1	450-8	M8 x 1.25	10.4	M12 x 1.74	12.5	500-4	1
329-820	1/2-20	21/32	3/4-10	.656	500-7	1	450-10	M10 x 1.5	14.0	M16 x 2.0	17.0	500-5	1
329-918	5/16-18	21/32	3/4-10	.656	500-7	1	450-12	M12 x 1.75	14.0	M16 x 2.0	17.0	500-6	1
329-10F	5/8-18	49/64	7/8-9	.687	500-8	1	450-16	M16 x 2.0	21.0	M24 x 3.0	20.0	500-8	1
329-1216	3/4-16	7/8	1-8	.781	500-9	1	450-20	M20 x 2.5	33.0	M36 x 4.0	30.0	—	1
329-1614	1-14	1 1/32	1 3/8-12	1.250	—	1	303 Stainless Steel Passivated						
335-4	1/4-20	27/64	1/2-13	.484	500-3	1	653-6	M6 x 1.0	5.1	3/8-16	.406	500-3	1
335-5	5/16-18	31/64	9/16-12	.515	500-4	1	653-8	M8 x 1.25	27/64	1/2-13	.484	500-4	1
335-6	3/8-16	17/32	5/8-11	.656	500-5	1	653-10	M10 x 1.50	31/64	9/16-12	.515	500-5	1
335-8	1/2-13	49/64	7/8-9	.687	—	1	653-10F	M10 x 1.25	31/64	9/16-12	.515	500-5	1
335-10	5/8-11	7/8	1-8	.781	—	1	653-12	M12 x 1.75	21/32	3/4-10	.656	500-6	1
303 Stainless Steel Passivated - Coarse Thread							303 Stainless Steel Passivated - Coarse Thread						
303-004	4-40	5/32	10-32	.250	—	1	453-3	M3 x .5	5.1	M6 x 1.0	6.5	—	1
303-006	6-32	#7	1/4-20	.280	—	1	453-4	M4 x .7	6.9	M8 x 1.25	7.5	500-1	1
303-008	8-32	F	5/16-18	.290	500-1	1	453-5	M5 x .8	6.9	M8 x 1.25	7.5	500-1	1
303-3	10-24	5/16	3/8-16	.406	500-2	1	453-6	M6 x 1.0	8.6	M10 x 1.5	10.5	500-3	1
453-3	10-24	5/16	3/8-16	.406	500-2	1	453-8	M8 x 1.25	10.4	M12 x 1.74	12.5	500-4	1
453-4	1/4-20	23/64	7/16-14	.437	500-3	1	453-10	M10 x 1.5	14.0	M16 x 2.0	17.0	500-5	1
453-5	5/16-18	27/64	1/2-13	.484	500-4	1	453-12	M12 x 1.75	14.0	M16 x 2.0	17.0	500-6	1
453-6	3/8-16	31/64	9/16-12	.515	500-5	1							
453-7	7/16-14	17/32	5/8-11	.656	500-6	1							
453-8	1/2-13	21/32	3/4-10	.656	500-7	1							
453-9	9/16-12	21/32	3/4-10	.656	500-7	1							
453-10	5/8-11	49/64	7/8-9	.687	500-8	1							
453-11	1-8	7/8	1-8	.781	500-9	1							
453-12	1 1/4-7	1 1/64	1 3/8-12	1.250	—	1							

Thread Inserts Repair Kits



Item No.	Internal Thread Sizes	Pack Qty.
Steel - Coarse Thread		
EZ-C108	10 each of 10-24, 1/4-20, 5/16-18, 3/8-16 6 each of 1/2-13 6 each of 1/2-13	1
EZ-C816	7 each of 5/8-11, 3/4-10 2 each of 1-8	1
Steel - Fine Thread		
EZ-F108	10 each of 10-32, 1/4-28, 5/16-24, 3/8-24 6 each of 1/2-20 6 each of 1/2-20	1
EZ-F816	7 each of 5/8-18, 3/4-16 2 each of 1-14	1

Power Drive Tools for Thread Inserts



Made of stress proof steel, the power drive tool is used for volume installation. Appropriate power tool item number is listed next to the individual E-Z LOK thread inserts for which it should be used. Cannot be used with extra heavy wall inserts.

Convenient thread repair kits containing a selection of popular sizes of E-Z LOK thread inserts.

Item No.	Internal Thread Sizes	Pack Qty.
303 Stainless Steel Passivated - Coarse Thread		
EZ-C303	10 each of 10-24, 1/4-20, 5/16-18, 3/8-16 6 each of 1/2-13	1
303 Stainless Steel Passivated - Fine Thread		
EZ-F303	10 each of 10-32, 1/4-28, 5/16-24, 3/8-24 6 each of 1/2-20	1
Steel - Metric Internal / Inch External		
EZ-M612	10 each of M6 x 1.0, M8 x 1.25, M10 x 1.5 6 each of M12 x 1.75	1
Steel - Metric Internal and External		
EZ-M100	10 each of M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.25	1
Steel - Inch Internal / Metric External		
EZ-M508	10 each of 10-24, 1/4-20, 5/16-18, 3/8-16 6 each of 1/2-13	1
303 Stainless Steel Passivated - Metric Internal and External		
EZ-M103	10 each of M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.25	1

E-Z LOK

Item No.	For Internal Thread Sizes	Pack Qty.	Item No.	For Internal Thread Sizes	Pack Qty.
500-0	6-32	1	500-7	1/2-13, 1/2-20, 5/16-12, M14	1
500-1	8-32, M4, M5	1	500-8	5/8-11, 3/4-18, M16	1
500-2	10-24, 10-32	1	500-9	3/4-10, 3/4-16	1
500-3	1/4-20, 1/4-28, M6	1	500-11	1/4-20 Hex	1
500-4	5/16-18, 5/16-24, M8	1	500-12	M5 Hex	1
500-5	3/8-16, 3/8-24, M10	1	500-13	M8 Hex	1
500-6	7/16-14, 7/16-20, M12	1	500-14	M10 Hex	1



Assorted Mandrels and Nosepieces For ALC-39200 Thread-Setter Tool



Item No.	Thread Size	Pack Qty.
Mandrels		
ALC-39254	6-32	1
ALC-39255	8-32	1
ALC-39256	10-24	1
ALC-39257	10-32	1
ALC-39258	1/4-20	1
ALC-39259	5/16-18	1
ALC-39260	3/8-16	1
ALC-39266	4mm	1
ALC-39267	5mm	1
ALC-39268	6mm	1
ALC-39269	8mm	1
Nosepieces		
ALC-39261	6-32	1
ALC-39262	8-32	1
ALC-39263	10-24, 10-32	1
ALC-39273	5mm	1
ALC-39274	4mm	1

Hand Tools & Kits Assorted Steel Klik Thread-Serts



Thread-setter tool with 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18 and 3/8-16 mandrels and nosepieces, wrench and instructions. Contains 10 each of ALC-47810, ALC-47820, ALC-47830, ALC-47840, ALC-47850; 6 each of ALC-47871, ALC-47981. Plastic case.

Item No.	Description	Pack Qty.
ALC-39214	Assorted Steel Klik Thread-Serts	1

Hand Tools & Kits Assorted Ribbed Style Rivet Nuts



Thread-setter tool with 8-32, 10-24, 10-32, and 1/4-20 mandrels and nosepieces, wrench and instructions. Contains 12 each of ALC-47320, ALC-47330, ALC-47340; 8 each of ALC-47350 and 6 each ALC-47354. Plastic case.

Item No.	Description	Pack Qty.
ALC-39215	Ribbed Rivet Nut & Tool Assortment	1

Hand Tools & Kits Assorted Ribbed Style Metric Rivet Nuts



Thread-setter tool with 4, 5 and 6mm mandrels and nosepieces, wrench and instructions. Contains 12 each of ALC-47360, ALC-47384, ALC-47385; 8 each ALC-47386 and 6 each ALC-47387. Plastic case.

Item No.	Description	Pack Qty.
ALC-39216	Ribbed Rivet Nut & Tool Assortment	1

These threaded inserts are screwed into preformed or predrilled holes and cut their own threads into the wall for permanent installation. Eliminates the time and expense of tapping. Provides a strong wear and vibration resistant thread. The steel inserts are hardened with a zinc and clear chromate finish. Stainless are type 303. Can be installed with hand installation tools sold below. Hole size listed below is for reference only. Optimum hole size to be determined through experimentation. A 60 degrees countersink is required for flush mounting.

Self Tapping Thread Inserts Steel and Stainless

For use in aluminum, aluminum alloy, magnesium and mild steel.

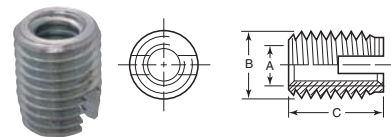


Steel Item No.	Stainless Item No.	Int. Thd. A	B	C	Hole Size	Hole Depth	Pack Qty.
STI-330	STI-430	10-24	.315	.276	.291	.354	1
STI-335	STI-435	10-24	.315	.394	.291	.512	1
STI-340	STI-440	1/4-20	.394	.315	.366	.394	1
STI-345	STI-445	1/4-20	.394	.472	.366	.591	1
STI-350	STI-450	5/16-18	.473	.354	.437	.433	1
STI-355	STI-455	5/16-18	.473	.551	.437	.669	1
STI-360	STI-460	3/8-16	.552	.394	.516	.512	1
STI-365	STI-465	3/8-16	.552	.709	.516	.866	1
—	STI-410	6-32	.236	.197	.216	.276	1
—	STI-420	8-32	.256	.236	.236	.315	1
—	STI-425	8-32	.256	.315	.236	.394	1

Note: Hole Size +.003/-.000 for reference only.

Self Tapping Thread Inserts Steel and Stainless

For use in plastics, light metal alloys and hard wood.

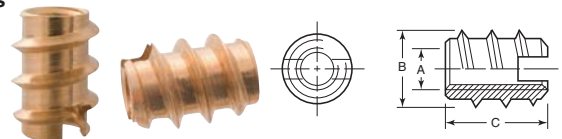


Steel Item No.	Stainless Item No.	Int. Thd. A	B	C	Hole Size Plastics/Hardwoods	Hole Size Soft Metals	Hole Depth	Pack Qty.
—	STI-110	6-32	.236	.315	.208	.216	.394	1
—	STI-115	8-32	.256	.315	.228	.236	.394	1
STI-20	STI-120	10-24	.315	.394	.279	.287	.512	1
STI-25	STI-125	1/4-20	.394	.551	.338	.350	.669	1
STI-30	STI-130	5/16-18	.473	.59	.417	.429	.709	1
STI-35	STI-135	3/8-16	.552	.709	.496	.508	.866	1

Note: Hole Size +.003/-.000 for reference only.

Self Tapping Thread Inserts Brass

For use in hard and soft wood, particle board and soft plastics.



Item No.	Int. Thd. A	B	C	Hole Size Softwood	Hole Size Hardwood/Plastics	Hole Depth	Pack Qty.
STI-210	6-32	.256	0.315	.181	.185	0.394	1
STI-215	8-32	.276	0.394	.201	.205	0.512	1
STI-225	1/4-20	.394	0.551	.300	.303	0.669	1
STI-230	5/16-18	.512	0.787	.390	.398	0.906	1
STI-235	3/8-16	.630	0.905	.488	.496	1.024	1

Note: Hole Size +.003/-.000 for reference only.

Self Tapping Thread Inserts Hand Installation Tools

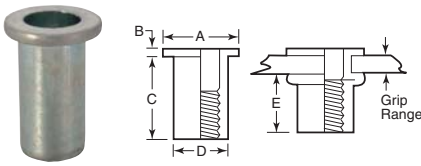


These installation tools are good for low volume use. For very low volume, a bolt with a nut can be used.

Item No.	Thread	A	Square End	Pack Qty.	Item No.	Thread	A	Square End	Pack Qty.
STI-910	6-32	2.36	.197	1	STI-915	8-32	2.36	.197	1
STI-930	5/16-18	2.95	.315	1	STI-925	1/4-20	2.95	.315	1
STI-935	3/8-16	3.74	.492	1					



Klik Rivet Nuts - Standard

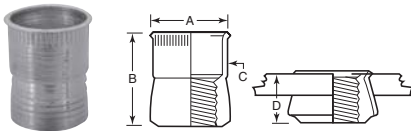


Can be used in blind or through hole applications.

These inserts feature a heavy duty head profile and increased thickness in the collapse area. Steel with cadmium plating.

Item No.	Thread	Grip Range	+ .003/ -.000 Hole Size	A	B	C	D	E	Pack Qty.
ALC-47121	6-32	.075-.120	#2	.357	.032	.500	.221	.315	1
ALC-47140	10-32	.010-.080	1/4	.406	.038	.531	.250	.380	1
ALC-47142	10-32	.080-.130	1/4	.406	.038	.594	.250	.390	1
ALC-47150	1/4-20	.020-.080	Q	.475	.058	.625	.332	.450	1
ALC-47152	1/4-20	.080-.140	Q	.475	.058	.687	.332	.450	1
ALC-47154	1/4-20	.140-.200	Q	.475	.058	.750	.332	.450	1
ALC-47171	5/16-18	.030-.125	Z	.665	.062	.750	.413	.505	1

Klik Thread-Serts Individual Inserts

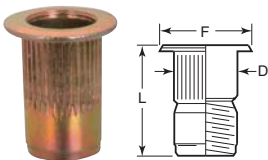


Can be used in blind or through hole applications. Unique because

these inserts fit into most any material above 1/32" in thickness. As the insert is installed, the threaded portion is completely swaged 360 degree into the sleeve portion of the hole. This permits these inserts to be used with Grade 8 mating screws. The installation hole size is determined by the thickness and density of the parent material. Cadmium finish.

Item No.	Thread	Head Width A	Length B	Body Width C	D	Min. Hole Depth	Pack Qty.
ALC-47810	6-32	.250	.375	.215	.205	.40	1
ALC-47820	8-32	.282	.375	.246	.205	.40	1
ALC-47830	10-24	.314	.375	.277	.205	.40	1
ALC-47840	10-32	.314	.375	.277	.205	.40	1
ALC-47871	5/16-18	.537	.615	.496	.325	.64	1
ALC-47881	3/8-16	.660	.740	.559	.390	.77	1

Klik Rivet Nuts - Ribbed Individual Inserts Inch and Metric



These blind thread inserts offer strong torque and pull out characteristics.

Especially effective in sheet metal and other thin material operations. The insert is placed in the parent material hole and crimped up with the installation tool. Installs from one side and no tapping is required. Installs nearly flush eliminating counter sinking. Made from plated steel. Metric dimensions are show in millimeters.

Item No.	Thread	Grip Range	+ .006/- .000 Hole Size	D	F	L	M	Pack Qty.
Inch								
ALC-47310	6-32	.020-.080	1/64	.265	.375	.433	.275	1
ALC-47312	6-32	.080-.130	1/64	.265	.375	.484	.275	1
ALC-47320	8-32	.020-.080	1/64	.265	.375	.433	.275	1
ALC-47321	8-32	.080-.130	1/64	.265	.375	.484	.275	1
ALC-47330	10-24	.020-.130	1/64	.296	.400	.488	.300	1
ALC-47332	10-24	.130-.225	1/64	.296	.400	.594	.300	1
ALC-47340	10-32	.020-.130	1/64	.296	.400	.488	.300	1
ALC-47342	10-32	.130-.225	1/64	.296	.400	.594	.300	1
ALC-47350	1/4-20	.027-.165	2/64	.390	.500	.590	.355	1
ALC-47354	1/4-20	.165-.260	2/64	.390	.500	.692	.355	1
ALC-47371	5/16-18	.027-.150	1/32	.530	.670	.690	.430	1
ALC-47381	3/8-16	.027-.150	1/32	.530	.670	.690	.430	1
Metric								
ALC-47360	M4 x .7	.50-2.0	6.8	6.75	9.50	10.9	7.00	1
ALC-47384	M5 x .8	3.30-5.70	7.6	7.55	10.10	15.0	7.60	1
ALC-47385	M5 x .8	.50-3.30	7.6	7.55	10.10	12.3	7.60	1
ALC-47386	M6 x 1.0	.70-4.20	10.0	9.90	12.70	14.9	9.00	1
ALC-47388	M8 x 1.25	.70-3.80	13.5	13.45	17.00	17.5	11.00	1
ALC-47389	M8 x 1.25	3.80-7.90	13.5	13.45	17.00	20.4	11.00	1
ALC-47390	M10 x 1.5	.70-3.80	13.5	13.45	17.00	17.5	11.00	1
ALC-47391	M10 x 1.5	3.80-7.90	13.5	13.45	17.00	20.4	11.00	1

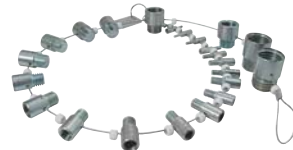
Thread Verifiers



SAE and Metric Wall Mount



SAE and Metric



SAE



Metric

SAE and Metric

- 26 female and 26 male thread verifiers on a steel cable for hanging
- SAE (bright finish) #6-32, #8-32, 5/16-32, 3/16-24, 1/4-28, 1/4-20, 5/16-24, 5/16-18, 3/8-24, 3/8-16, 7/16-20, 7/16-14, 1/2-20, 1/2-13 inch
- Metric (black finish) M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.50, M12x1.25, M12x1.5, M12x1.75 mm

SAE

- 23 female and 23 male thread verifiers on a steel cable for hanging
- SAE (bright finish) #6-32, #6-40, #8-32, #10-24, #10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 5/16-12, 5/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 1-8, 1-12 inch

Metric

- 21 female and 21 male thread verifiers on a steel cable for hanging
- Metric (black finish) M3x0.5, M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.5, M12x1.25, M12x1.5, M12x1.75, M14x1.5, M14x2.0, M16x1.5, M16x2.0, M20x1.5, M20x2.5, M24x2.0, M24x3.0 mm

SAE and Metric (Wall Mount)

- 28 female and 28 male thread verifiers on a wall mount
- SAE (bright finish) #6-32, #8-32, #10-24, #10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 5/16-12, 5/16-18 inch
- Metric (black finish) M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.5, M12x1.25, M12x1.5, M12x1.75 mm

Item No.	Description	Pack Qty.
TV-26	SAE and Metric Thread Verifier	1
TV-27	Inch Thread Verifier	1
TV-28	Metric Thread Verifier	1
TV-29	Wall Mount Thread Verifier	1



Cup Point



Steel screws are made from heat treated alloy. Stainless screws are not heat treated. Unified 3A thread fit.

See pages 556-558 for hex keys.

Holo-Krome		Import Line		Thread	Length	Key Size
Item No.	Pack Qty.	Item No.	Pack Qty.			
UNC Steel						
HK-32006	1	BRB-101043P	100	2-56	1/8	0.035
HK-32020	1	BRB-101070P	100	4-40	1/8	0.05
HK-32022	1	BRB-101073P	100	4-40	3/16	0.05
HK-32024	1	BRB-101075P	100	4-40	1/4	0.05
HK-32038	1	BRB-101113P	100	5-40	1/4	1/16
HK-32050	1	BRB-101145P	100	6-32	1/8	1/16
HK-32052	1	BRB-101147P	100	6-32	3/16	1/16
HK-32054	1	BRB-101149P	100	6-32	1/4	1/16
HK-32058	1	BRB-101153P	100	6-32	3/8	1/16
HK-32070	1	BRB-101193P	100	8-32	1/8	5/64
HK-32072	1	BRB-101195P	100	8-32	3/16	5/64
HK-32074	1	BRB-101197P	100	8-32	1/4	5/64
HK-32090	1	BRB-101213P	100	8-32	1	5/64
HK-32092	1	BRB-101244P	100	10-24	3/16	3/32
HK-32098	1	BRB-101255P	100	10-24	3/8	3/32
HK-32100	1	BRB-101259P	100	10-24	1/2	3/32
HK-32114	1	BRB-101309P	100	1/4-20	1/4	1/8
HK-32116	1	BRB-101311P	100	1/4-20	5/16	1/8
HK-32118	1	BRB-101313P	100	1/4-20	3/8	1/8
HK-32120	1	BRB-101317P	100	1/4-20	1/2	1/8
HK-32124	1	BRB-101321P	100	1/4-20	3/4	1/8
HK-32126	1	BRB-101323P	100	1/4-20	7/8	1/8
HK-32128	1	BRB-101325P	100	1/4-20	1	1/8
HK-32130	1	BRB-101327P	100	1/4-20	1 1/4	1/8
HK-32132	1	BRB-101329P	100	1/4-20	1 1/2	1/8
HK-32134	1	BRB-101331P	100	1/4-20	1 3/4	1/8
HK-32136	1	BRB-101333P	100	1/4-20	2	1/8
HK-32138	1	BRB-101379P	100	5/16-18	1/4	3/32
HK-32140	1	BRB-101381P	100	5/16-18	5/16	3/32
HK-32146	1	BRB-101387P	100	5/16-18	1/2	3/32
HK-32150	1	BRB-101391P	100	5/16-18	3/4	3/32
HK-32154	1	BRB-101395P	100	5/16-18	1	3/32
HK-32158	1	BRB-101399P	100	5/16-18	1 1/2	3/32
HK-32162	1	BRB-101403P	100	5/16-18	2	3/32
HK-32168	1	BRB-101449P	100	3/8-16	3/8	3/16
HK-32176	1	BRB-101457P	100	3/8-16	3/4	3/16
HK-32182	1	BRB-101463P	100	3/8-16	1 1/4	3/16
HK-32184	1	BRB-101465P	100	3/8-16	1 1/2	3/16
HK-32188	1	BRB-101469P	100	3/8-16	2	3/16
HK-32190	1	BRB-101471P	100	3/8-16	2 1/2	3/16
HK-32214	1	BRB-101567P	100	1/2-13	1/2	1/4
HK-32218	1	BRB-101571P	100	1/2-13	3/4	1/4
HK-32224	1	BRB-101577P	100	1/2-13	1 1/4	1/4
HK-32226	1	BRB-101579P	100	1/2-13	1 1/2	1/4
HK-32230	1	BRB-101583P	50	1/2-13	2	1/4
HK-32232	1	BRB-101585P	50	1/2-13	2 1/2	1/4
HK-32234	1	BRB-101587P	50	1/2-13	3	1/4
HK-32236	1	BRB-101613P	50	3/8-11	1/2	3/16
HK-32238	1	BRB-101615P	50	3/8-11	5/8	3/16
HK-32242	1	BRB-101621P	50	3/8-11	1	3/16
HK-32246	1	BRB-101625P	50	3/8-11	1 1/2	3/16
HK-32256	1	BRB-101652P	50	3/4-10	3/8	3/8
HK-32258	1	BRB-101655P	50	3/4-10	3/4	3/8
HK-32272	1	BRB-101679P	25	3/4-10	3	3/8
HK-32274	1	BRB-101682P	25	7/8-9	7/8	3/2
HK-32286	1	BRB-101706P	25	1-8	1	3/16
UNF Steel						
HK-33054	1	BRB-101271P	100	10-32	3/16	3/32
HK-33056	1	BRB-101273P	100	10-32	1/4	3/32
HK-33060	1	BRB-101277P	100	10-32	3/8	3/32
HK-33062	1	BRB-101281P	100	10-32	1/2	3/32
HK-33066	1	BRB-101285P	100	10-32	3/4	3/32
HK-33070	1	BRB-101289P	100	10-32	1 1/4	3/32
HK-33074	1	BRB-101337P	100	1/4-28	1/4	1/8
HK-33078	1	BRB-101341P	100	1/4-28	3/4	1/8
HK-33084	1	BRB-101349P	100	1/4-28	1	1/8
HK-33086	1	BRB-101351P	100	1/4-28	3/4	1/8
HK-33090	1	BRB-101405P	100	5/16-24	1/4	3/32
HK-33114	1	BRB-101487P	100	3/8-24	1	3/16
HK-33118	1	BRB-101491P	100	3/8-24	1 1/2	3/16
HK-33126	1	BRB-101589P	100	1/2-20	1/2	1/4
HK-33130	1	BRB-101595P	100	1/2-20	1	1/4
HK-33132	1	BRB-101635P	50	3/8-18	3/8	3/16
HK-33134	1	BRB-101637P	50	3/8-18	1	3/16
UNC Stainless Steel						
HK-52018	1	BRB-102070P	100	4-40	1/8	0.05
HK-52044	1	BRB-102109P	100	8-32	1/8	5/64
—	—	BRB-102079P	100	6-32	1/8	1/16
—	—	BRB-102097P	100	8-32	3/16	5/64
—	—	BRB-102100P	100	8-32	1/4	5/64
—	—	BRB-102114P	100	10-24	1/4	3/32
—	—	BRB-102154P	100	1/4-20	3/16	1/8
—	—	BRB-102157P	100	1/4-20	3/4	1/8
—	—	BRB-102163P	100	1/4-20	3/8	1/8
—	—	BRB-102172P	100	1/4-20	3/4	1/8
—	—	BRB-102202P	100	3/8-16	3/8	3/16
—	—	BRB-102214P	100	3/8-16	1	3/16
UNF Stainless Steel						
D-53024	1	BRB-102128P	100	10-32	1/4	3/32
—	—	BRB-102126P	100	10-32	3/16	3/32
—	—	BRB-102132P	100	10-32	3/8	3/32
—	—	BRB-102136P	100	10-32	5/8	3/32

Note: Holo-Krome sold per each and Import Line sold in box quantity only.

Made from heat treated alloy. All set screws are unified 3A thread.

Knurl Point



Internal knurl point allows ratchet locking action for superior holding power.

Item No.	Thd. x Lgth.	Key Size	Pack Qty.
UNC			
BRB-111001P	#4-40 x 1/8	.05	100
BRB-111082P	#6-32 x 3/16	1/16	100
BRB-111124P	#8-32 x 1/8	5/64	100
BRB-111177P	#10-24 x 1/4	3/32	100
BRB-111244P	1/4-20 x 1/4	1/8	100
BRB-111316P	3/16-18 x 3/16	5/32	100
BRB-111329P	3/16-18 x 3/4	5/32	100
BRB-111388P	3/8-16 x 3/8	3/16	100
BRB-111393P	3/8-16 x 1/2	3/16	100
BRB-111569P	1/2-13 x 3/8	1/4	100

Half Dog



Item No.	Thd. x Lgth.	Key Size	Pack Qty.
UNC			
BRB-141076P	1/4-20 x 1/4	1/8	100
BRB-141088P	1/4-20 x 3/8	1/8	100
BRB-141097P	1/4-20 x 1/2	1/8	100
BRB-141103P	1/4-20 x 3/4	1/8	100
BRB-141109P	1/4-20 x 1 1/8	1/8	100
BRB-141133P	5/16-18 x 1 1/2	5/32	100
BRB-141148P	5/16-18 x 1 5/8	5/32	100
BRB-141157P	3/8-16 x 1/2	3/16	100
BRB-141166P	3/8-16 x 3/4	3/16	100
BRB-141169P	3/8-16 x 1 1/8	3/16	100
BRB-141171P	3/8-16 x 1 1/4	3/16	100
BRB-141178P	1/2-13 x 1/2	1/4	100
BRB-141184P	1/2-13 x 3/4	1/4	100
BRB-141190P	1/2-13 x 1 1/4	1/4	100
BRB-141199P	5/8-11 x 1 1/8	5/16	50
UNF			
BRB-141073P	#10-32 x 1/4	3/32	100

Flat Point



Item No.	Thd. x Lgth.	Key Size	Pack Qty.
UNC			
BRB-151241P	1/4-20 x 3/4	1/8	100
BRB-151304P	3/8-16 x 1/4	3/16	100
BRB-151337P	1/2-13 x 1/2	1/4	100
BRB-151346P	1/2-13 x 3/4	1/4	100
UNF			
BRB-151203P	#10-32 x 1/4	3/32	100

Cone Point



Item No.	Thd. x Lgth.	Key Size	Pack Qty.
UNC			
BRB-121019P	#6-32 x 3/16	1/16	100
BRB-121034P	#8-32 x 1/4	5/64	100
BRB-121067P	#10-24 x 3/8	3/32	100
BRB-121091P	1/4-20 x 1/4	1/8	100
BRB-121103P	1/4-20 x 3/8	1/8	100
BRB-121112P	1/4-20 x 1/2	1/8	100
BRB-121124P	1/4-20 x 1 1/8	1/8	100
BRB-121133P	3/16-18 x 3/8	5/32	100
BRB-121169P	3/8-16 x 1/2	3/16	100
UNF			
BRB-121085P	#10-32 x 1/4	3/32	100
BRB-121125P	1/4-28 x 1/4	1/8	100

Oval Point



Item No.	Thd. x Lgth.	Key Size	Pack Qty.
UNC			
BRB-131031P	#8-32 x 1/4	5/64	100
BRB-131100P	1/4-20 x 3/8	1/8	100
BRB-131199P	1/2-13 x 1	1/4	100
BRB-131175P	3/8-16 x 3/8	3/16	100

HEX SOCKET SET SCREWS



Steel and Stainless
Inch and Metric



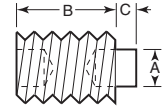
Steel Brass Tip



Stainless Brass Tip



Stainless Nylon Tip



Used to lock collars, gears, shafts, bearings, etc. to shafts. Protects finished surfaces. Steel screws are black finished. Stainless are type 18-8. All sizes conform to ANSI standards. Metric dimensions shown in millimeters.

Brass Tip		Nylon Tip		Brass Tip		Nylon Tip							
Item No.	Item No.	Thread Size	A	B	C	Pack Qty.	Item No.	Item No.	Thread Size	A	B	C	Pack Qty.
Steel - Inch						Steel - Metric							
BTS-10	BTS-310	4-40	1/16	1/8	1/32	1	BTS-1215	BTS-1315	M4 x .7	2.4	6	1.2	1
BTS-15	BTS-315	4-40	1/16	3/16	1/32	1	—	BTS-1320	M4 x .7	2.4	8	1.2	1
—	BTS-320	4-40	1/16	1/4	1/32	1	BTS-1230	—	M6 x 1.0	3.2	6	1.6	1
BTS-25	BTS-325	6-32	1/16	1/8	1/32	1	BTS-1235	BTS-1335	M6 x 1.0	3.2	8	1.6	1
BTS-30	BTS-330	6-32	1/16	3/16	1/32	1	BTS-1240	—	M6 x 1.0	3.2	10	1.6	1
BTS-35	BTS-335	6-32	1/16	1/4	1/32	1	BTS-1245	—	M6 x 1.0	3.2	12	1.6	1
BTS-40	BTS-340	6-32	1/16	5/16	1/32	1	BTS-1250	BTS-1350	M8 x 1.25	4.8	8	2.4	1
BTS-45	BTS-345	8-32	3/32	1/8	3/64	1	BTS-1260	—	M8 x 1.25	4.8	12	2.4	1
BTS-50	BTS-350	8-32	3/32	3/16	3/64	1	BTS-1265	—	M8 x 1.25	4.8	16	2.4	1
BTS-55	BTS-355	8-32	3/32	1/4	3/64	1	BTS-1270	—	M10 x 1.5	4.8	10	2.4	1
BTS-60	BTS-360	8-32	3/32	5/16	3/64	1	BTS-1275	—	M10 x 1.5	4.8	12	2.4	1
BTS-65	BTS-365	8-32	3/32	1/2	3/64	1	BTS-1285	—	M10 x 1.5	4.8	25	2.4	1
BTS-70	—	10-24	3/32	3/16	3/64	1	Stainless Steel - Inch						
—	BTS-375	10-24	3/32	1/4	3/64	1	BTS-610	BTS-910	2-56	1/32	1/8	1/32	1
BTS-90	—	10-24	3/32	1/2	3/64	1	BTS-615	BTS-915	2-56	1/32	1/4	1/32	1
BTS-95	BTS-395	10-32	3/32	3/16	3/64	1	—	BTS-920	4-40	1/16	1/8	1/32	1
BTS-100	BTS-400	10-32	3/32	1/4	3/64	1	BTS-630	BTS-930	4-40	1/16	1/4	1/32	1
BTS-105	BTS-405	10-32	3/32	5/8	3/64	1	—	BTS-935	6-32	1/16	1/8	1/32	1
BTS-110	BTS-410	10-32	3/32	1/2	3/64	1	—	BTS-945	6-32	1/16	1/4	1/32	1
BTS-115	BTS-415	10-32	3/32	3/4	3/64	1	—	BTS-950	8-32	3/32	1/8	3/64	1
BTS-120	BTS-420	1/4-20	1/8	3/16	1/16	1	—	BTS-955	8-32	3/32	3/16	3/64	1
BTS-125	BTS-425	1/4-20	1/8	1/4	1/16	1	—	BTS-960	8-32	3/32	1/4	3/64	1
BTS-130	BTS-430	1/4-20	1/8	5/16	1/16	1	—	BTS-965	8-32	3/32	3/8	3/64	1
BTS-135	BTS-435	1/4-20	1/8	3/8	1/16	1	—	BTS-970	10-24	3/32	3/16	3/64	1
BTS-140	BTS-440	1/4-20	1/8	1/2	1/16	1	BTS-695	BTS-995	10-32	3/32	3/16	3/64	1
BTS-145	BTS-445	1/4-20	1/8	5/8	1/16	1	BTS-700	BTS-1000	10-32	3/32	1/4	3/64	1
BTS-150	BTS-450	1/4-20	1/8	3/4	1/16	1	—	BTS-1005	10-32	3/32	3/8	3/64	1
BTS-155	BTS-455	1/4-20	1/8	1	1/16	1	BTS-710	BTS-1010	10-32	3/32	1/2	3/64	1
BTS-160	BTS-460	1/4-28	1/8	1/4	1/16	1	—	BTS-1015	10-32	3/32	3/4	3/64	1
BTS-165	BTS-465	1/4-28	1/8	3/8	1/16	1	—	BTS-1020	1/4-20	1/8	1/4	1/16	1
BTS-170	BTS-470	1/4-28	1/8	1/2	1/16	1	BTS-725	—	1/4-20	1/8	3/16	1/16	1
BTS-175	—	3/16-18	3/16	1/4	3/32	1	BTS-730	BTS-1030	1/4-20	1/8	3/8	1/16	1
BTS-180	—	3/16-18	3/16	5/16	3/32	1	BTS-735	BTS-1035	1/4-20	1/8	1/2	1/16	1
BTS-185	BTS-485	3/16-18	3/16	3/8	3/32	1	—	BTS-1045	1/4-28	1/8	3/8	1/16	1
BTS-190	BTS-490	3/16-18	3/16	1/2	3/32	1	—	BTS-1065	3/16-18	3/16	3/8	3/32	1
BTS-195	—	3/16-18	3/16	5/8	3/32	1	BTS-780	—	3/16-18	3/16	1	3/32	1
BTS-200	BTS-500	3/16-18	3/16	3/4	3/32	1	BTS-785	—	3/16-24	3/16	3/8	3/32	1
BTS-205	BTS-505	3/16-18	3/16	1	3/32	1	BTS-810	—	3/16-16	3/16	3/4	3/32	1
BTS-210	—	3/16-24	3/16	1/4	3/32	1	—	BTS-1115	3/16-16	3/16	1	3/32	1
BTS-235	BTS-535	3/16-16	3/16	3/8	3/32	1	Stainless Steel - Metric						
BTS-240	BTS-540	3/16-16	3/16	1/2	3/32	1	—	BTS-1410	M3 x 5	1.6	3	.8	1
BTS-250	—	3/16-16	3/16	3/4	3/32	1	—	BTS-1415	M3 x 5	1.6	4	.8	1
BTS-255	BTS-555	3/16-16	3/16	1	3/32	1	—	BTS-1420	M3 x 5	1.6	5	.8	1
BTS-260	—	3/16-24	3/16	3/8	3/32	1	—	BTS-1425	M4 x 7	2.4	4	1.2	1
BTS-265	—	3/16-24	3/16	1/2	3/32	1	—	BTS-1430	M4 x 7	2.4	6	1.2	1
BTS-275	—	1/2-13	1/4	1/2	1/8	1	—	BTS-1435	M4 x 7	2.4	10	1.2	1
BTS-285	BTS-585	1/2-13	1/4	3/4	1/8	1	—	BTS-1440	M5 x 8	2.4	6	1.2	1
BTS-290	BTS-590	1/2-13	1/4	1	1/8	1	—	BTS-1445	M5 x 8	2.4	10	1.2	1
—	—	—	—	—	—	—	—	BTS-1450	M6 x 1.0	3.2	6	1.6	1

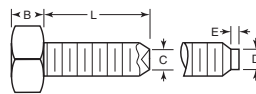
Square Head Set Screws



Cup Point



Half Dog Point



Grade 8, heat treated alloy steel. All screws are threaded to head.

Cup Point		Half Dog Point									
Item No.	C	Item No.	D	E	Thread	L	A	B	Pack Qty.		
MAC-5	1/8	—	—	—	1/4-20	1/2	1/4	3/16	1		
MAC-35	3/32	MAC-315	5/32	1/16	1/4-20	2	1/4	3/16	1		
MAC-75	3/32	—	—	—	3/16-18	2 1/2	3/16	15/64	1		
MAC-80	3/16	—	—	—	3/8-16	1/2	3/8	3/32	1		
MAC-90	3/16	—	—	—	3/8-16	3/4	3/8	3/32	1		
—	—	MAC-345	1/4	3/32	3/8-16	1 1/4	3/8	3/32	1		
MAC-115	3/16	MAC-360	1/4	3/32	3/8-16	2 1/2	3/8	3/32	1		
MAC-120	3/16	MAC-365	1/4	3/32	3/8-16	3	3/8	3/32	1		
—	—	MAC-380	11/32	1/8	1/2-13	1 1/2	1/2	3/8	1		
MAC-145	1/4	MAC-385	11/32	1/8	1/2-13	2	1/2	3/8	1		
MAC-150	1/4	MAC-390	11/32	1/8	1/2-13	2 1/2	1/2	3/8	1		
MAC-160	1/4	MAC-400	11/32	1/8	1/2-13	4	1/2	3/8	1		
—	—	MAC-405	15/32	3/32	3/8-11	2	3/8	15/32	1		
MAC-180	3/16	—	—	—	3/8-11	2 1/2	3/8	15/32	1		
MAC-185	3/16	MAC-410	15/32	3/32	3/8-11	3	3/8	15/32	1		
—	—	MAC-415	15/32	3/32	3/8-11	4	3/8	15/32	1		
—	—	MAC-420	15/32	3/32	3/8-11	5	3/8	15/32	1		
—	—	MAC-430	9/16	3/16	3/4-10	2 1/2	3/4	9/16	1		
MAC-215	3/8	MAC-435	9/16	3/16	3/4-10	3	3/4	9/16	1		
—	—	MAC-440	9/16	3/16	3/4-10	4	3/4	9/16	1		
MAC-230	3/8	MAC-445	9/16	3/16	3/4-10	5	3/4	9/16	1		
—	—	MAC-325	13/64	3/64	3/16-18	1 1/4	3/16	15/64	1		
—	—	MAC-355	1/4	3/32	3/8-16	2	3/8	9/32	1		
—	—	MAC-395	11/32	1/8	1/2-13	3	1/2	3/8	1		



FASTENERS

SOCKET HEAD CAP SCREWS

Buy One or Buy Bulk & SAVE



Steel
Inch
Coarse Thread



Made from heat treated alloy steel. Unified 3A thread fit.
See pages 556-558 for hex keys.

Holo-Krome		Import Line		Length Under Head	Key Size	Holo-Krome		Import Line		Length Under Head	Key Size	Holo-Krome		Import Line		Length Under Head	Key Size			
Item No.	Pack Qty.	Item No.	Pack Qty.			Item No.	Pack Qty.	Item No.	Pack Qty.			Item No.	Pack Qty.	Item No.	Pack Qty.			Item No.	Pack Qty.	
HK-72002B	100	BRB-011017P	100	#2-56	3/16	5/64	HK-86576B	100	—	1/4-20	3/4	3/16	HK-72247B	25	—	1/2-13	3/4	3/8		
HK-72004B	100	BRB-011019P	100	#2-56	1/4	5/64	HK-72117B	100	BRB-011611P	100	1/4-20	3 1/2	3/16	HK-72248B	25	BRB-011337P	25	1/2-13	4	3/8
HK-72006B	100	BRB-011021P	100	#2-56	3/8	5/64	HK-86580B	100	—	1/4-20	3 3/4	3/16	HK-72250B	25	BRB-011379P	25	1/2-13	4 1/2	3/8	
HK-72008B	100	BRB-011023P	100	#2-56	1/2	5/64	HK-72115B	100	BRB-011613P	100	1/4-20	4	3/16	HK-72252B	25	BRB-011381P	25	1/2-13	5	3/8
HK-72012B	100	BRB-011027P	100	#3-48	1/2	5/64	HK-72118B	100	BRB-011193P	100	3/16-18	3/8	1/4	HK-72254B	25	BRB-011383P	25	1/2-13	5 1/2	3/8
HK-72016B	100	BRB-011031P	100	#3-48	3/4	5/64	HK-72120B	100	BRB-011195P	100	3/16-18	1/2	1/4	HK-72256B	25	BRB-011385P	25	1/2-13	6	3/8
HK-72018B	100	BRB-011033P	100	#4-40	1/4	3/32	HK-72122B	100	BRB-011197P	100	3/16-18	5/8	1/4	HK-72258B	10	BRB-011387P	10	1/2-13	6 1/2	3/8
HK-72020B	100	BRB-011035P	100	#4-40	3/8	3/32	HK-72124B	100	BRB-011199P	100	3/16-18	3/4	1/4	HK-72260B	10	BRB-011389P	10	1/2-13	7	3/8
HK-72022B	100	BRB-011037P	100	#4-40	1/2	3/32	HK-72126B	100	BRB-011201P	100	3/16-18	7/8	1/4	HK-72262B	10	BRB-011391P	10	1/2-13	8	3/8
HK-72024B	100	BRB-011039P	100	#4-40	5/8	3/32	HK-72128B	100	BRB-011203P	100	3/16-18	1	1/4	HK-72264B	25	BRB-011409P	50	3/16-11	1	1/2
HK-72026B	100	BRB-011041P	100	#4-40	3/4	3/32	HK-72130B	100	BRB-011205P	100	3/16-18	1 1/4	1/4	HK-72266B	25	BRB-011411P	50	3/16-11	1 1/4	1/2
HK-72028B	100	BRB-011043P	100	#5-40	1/4	3/32	HK-72132B	100	BRB-011207P	100	3/16-18	1 1/2	1/4	HK-72268B	25	BRB-011413P	50	3/16-11	1 1/2	1/2
HK-72030B	100	BRB-011045P	100	#5-40	3/8	3/32	HK-72134B	100	BRB-011209P	100	3/16-18	1 3/4	1/4	HK-72270B	25	BRB-011415P	50	3/16-11	1 3/4	1/2
HK-72032B	100	BRB-011047P	100	#5-40	1/2	3/32	HK-72136B	100	BRB-011211P	100	3/16-18	2	1/4	HK-72272B	25	BRB-011417P	50	3/16-11	2	1/2
HK-72036B	100	BRB-011051P	100	#5-40	3/4	3/32	HK-72138B	100	BRB-011213P	100	3/16-18	2 1/4	1/4	HK-72274B	25	BRB-011419P	25	3/16-11	2 1/4	1/2
HK-86150B	100	BRB-581115P	100	#4-40	3/16	3/32	HK-72140B	100	BRB-011215P	100	3/16-18	2 1/2	1/4	HK-72276B	25	BRB-011421P	25	3/16-11	2 1/2	1/2
HK-86154B	100	BRB-581117P	100	#4-40	1/4	3/32	HK-72142B	100	BRB-011217P	100	3/16-18	2 3/4	1/4	HK-72278B	25	BRB-011423P	25	3/16-11	2 3/4	1/2
HK-86172B	100	—	—	#4-40	3/8	3/32	HK-72144B	100	BRB-011219P	100	3/16-18	3	1/4	HK-72280B	25	BRB-011425P	25	3/16-11	3	1/2
HK-86176B	100	—	—	#4-40	1	3/32	HK-72146B	50	BRB-011221P	100	3/16-18	3 1/4	1/4	HK-72282B	25	BRB-011427P	25	3/16-11	3 1/4	1/2
HK-72038B	100	BRB-011053P	100	#6-32	1/4	7/64	HK-72148B	50	BRB-011223P	100	3/16-18	3 1/2	1/4	HK-72284B	25	BRB-011429P	25	3/16-11	3 1/2	1/2
HK-72040B	100	BRB-011055P	100	#6-32	3/8	7/64	HK-86646B	50	BRB-011224P	100	3/16-18	4	1/4	HK-72286B	25	BRB-011431P	25	3/16-11	4	1/2
HK-72042B	100	BRB-011057P	100	#6-32	1/2	7/64	HK-72150B	100	BRB-011247P	100	3/16-16	1/2	5/16	HK-72288B	20	BRB-011433P	25	3/16-11	4 1/2	1/2
HK-72044B	100	BRB-011059P	100	#6-32	3/4	7/64	HK-72152B	100	BRB-011249P	100	3/16-16	3/4	5/16	HK-72290B	20	BRB-011435P	25	3/16-11	5	1/2
HK-72046B	100	BRB-011061P	100	#6-32	1	7/64	HK-72154B	100	BRB-011251P	100	3/16-16	3/4	5/16	HK-72292B	10	BRB-011437P	10	3/16-11	5 1/2	1/2
HK-72048B	100	BRB-011063P	100	#6-32	3/8	7/64	HK-72156B	100	BRB-011253P	100	3/16-16	7/8	5/16	HK-72294B	10	BRB-011439P	10	3/16-11	6	1/2
HK-72050B	100	BRB-011065P	100	#6-32	1	7/64	HK-72158B	100	BRB-011255P	100	3/16-16	1	5/16	HK-72296B	10	BRB-011441P	10	3/16-11	6 1/2	1/2
HK-86288B	100	—	—	#6-32	1 1/4	7/64	HK-72160B	100	BRB-011257P	100	3/16-16	1 1/4	5/16	HK-72298B	10	BRB-011443P	10	3/16-11	7	1/2
HK-86292B	100	—	—	#6-32	1 1/2	7/64	HK-72162B	100	BRB-011259P	100	3/16-16	1 1/2	5/16	HK-72300B	10	BRB-011445P	10	3/16-11	8	1/2
HK-86296B	100	—	—	#6-32	1 3/4	7/64	HK-72164B	50	BRB-011261P	100	3/16-16	1 3/4	5/16	HK-72302B	25	BRB-011459P	25	3/16-10	1 1/4	5/8
HK-86300B	100	—	—	#6-32	2	7/64	HK-72166B	50	BRB-011263P	100	3/16-16	2	5/16	HK-72304B	25	BRB-011461P	25	3/16-10	1 1/2	5/8
HK-72052B	100	BRB-011077P	100	#8-32	1/4	9/64	HK-72168B	50	BRB-011265P	100	3/16-16	2 1/4	5/16	HK-72306B	25	BRB-011463P	25	3/16-10	1 3/4	5/8
HK-72054B	100	BRB-011079P	100	#8-32	3/8	9/64	HK-72170B	50	BRB-011267P	50	3/16-16	2 1/2	5/16	HK-72308B	25	BRB-011465P	25	3/16-10	2	5/8
HK-72056B	100	—	—	#8-32	1/2	9/64	HK-72172B	50	BRB-011269P	50	3/16-16	2 3/4	5/16	HK-72310B	25	BRB-011467P	25	3/16-10	2 1/4	5/8
HK-72058B	100	BRB-011083P	100	#8-32	3/4	9/64	HK-72174B	50	BRB-011271P	50	3/16-16	3	5/16	HK-72312B	25	BRB-011469P	25	3/16-10	2 1/2	5/8
HK-72060B	100	BRB-011085P	100	#8-32	1	9/64	HK-72176B	50	BRB-011273P	50	3/16-16	3 1/4	5/16	HK-72314B	25	BRB-011471P	25	3/16-10	2 3/4	5/8
HK-72062B	100	BRB-011087P	100	#8-32	3/8	9/64	HK-72178B	50	BRB-011275P	50	3/16-16	3 1/2	5/16	HK-72316B	25	BRB-011473P	25	3/16-10	3	5/8
HK-72064B	100	BRB-011089P	100	#8-32	1	9/64	HK-72180B	50	BRB-011277P	50	3/16-16	4	5/16	HK-72318B	25	BRB-011475P	25	3/16-10	3 1/4	5/8
HK-72066B	100	BRB-011091P	100	#8-32	1 1/4	9/64	HK-72182B	50	BRB-011279P	50	3/16-16	4 1/2	5/16	HK-72320B	25	BRB-011477P	25	3/16-10	3 1/2	5/8
HK-72068B	100	BRB-011093P	100	#8-32	1 1/2	9/64	HK-72184B	50	BRB-011281P	50	3/16-16	5	5/16	HK-72322B	25	BRB-011479P	25	3/16-10	4	5/8
HK-86362B	100	—	—	#8-32	1 3/4	9/64	HK-72185B	50	BRB-011282P	50	3/16-16	6	5/16	HK-72324B	20	BRB-011481P	20	3/16-10	4 1/2	5/8
HK-86364B	100	—	—	#8-32	2	9/64	HK-86688B	50	BRB-581477P	25	3/16-16	5 1/2	5/16	HK-72326B	20	BRB-011483P	25	3/16-10	5	5/8
HK-86368B	100	—	—	#8-32	2 1/2	9/64	HK-72190B	100	BRB-011311P	100	7/16-14	3/4	3/8	HK-72328B	10	BRB-011485P	10	3/16-10	5 1/2	5/8
—	—	BRB-011081P	100	8-32	1/2	6/16	HK-72192B	100	BRB-011313P	100	7/16-14	7/8	3/8	HK-72330B	10	BRB-011487P	10	3/16-10	6	5/8
HK-72070B	100	BRB-011101P	100	#10-24	3/8	5/32	HK-72194B	100	BRB-011315P	100	7/16-14	1	3/8	HK-72334B	10	BRB-011491P	10	3/16-10	7	5/8
HK-72072B	100	BRB-011103P	100	#10-24	1/2	5/32	HK-72196B	50	BRB-011317P	100	7/16-14	1 1/4	3/8	HK-72336B	10	BRB-011493P	10	3/16-10	8	5/8
HK-72074B	100	BRB-011105P	100	#10-24	3/4	5/32	HK-72198B	50	BRB-011319P	100	7/16-14	1 1/2	3/8	HK-72338B	10	BRB-011495P	10	7/8-9	2	3/4
HK-72076B	100	BRB-011107P	100	#10-24	1	5/32	HK-72200B	50	BRB-011321P	100	7/16-14	1 3/4	3/8	HK-72340B	10	BRB-011497P	10	7/8-9	2 1/4	3/4
HK-72078B	100	BRB-011109P	100	#10-24	3/8	5/32	HK-72202B	50	BRB-011323P	50	7/16-14	2	3/8	HK-72342B	10	BRB-011503P	10	7/8-9	3	3/4
HK-72080B	100	BRB-011111P	100	#10-24	1	5/32	HK-72204B	50	BRB-011325P	50	7/16-14	2 1/4	3/8	HK-72344B	10	BRB-011501P	10	7/8-9	2 3/4	3/4
HK-72082B	100	BRB-011113P	100	#10-24	1 1/4	5/32	HK-72206B	50	BRB-011327P	50	7/16-14	2 1/2	3/8	HK-72348B	10	BRB-011505P	10	7/8-9	3 1/4	3/4
HK-72084B	100	BRB-011115P	100	#10-24	1 1/2	5/32	HK-72208B	25	BRB-011329P	50	7/16-14	2 3/4	3/8	HK-72350B	10	BRB-001507P	10	7/8-9	3 1/2	3/4
HK-72086B	100	BRB-011117P	100	#10-24	1 3/4	5/32	HK-72210B	25	BRB-011331P	50	7/16-14	3	3/8	HK-72354A	10	BRB-001511P	10	7/8-9	4 1/2	3/4
HK-72088B	100	BRB-011119P	100	#10-24	2	5/32	HK-72214B	25	BRB-011335P	50	7/16-14	3 1/2	3/8	HK-72356B	10	BRB-001513P	10	7/8-9	5	3/4
HK-86424B	100	BRB-581283P	100	#10-24	1/4	5/32	HK-72216B	25	BRB-011337P	50	7/16-14	4	3/8	HK-72358B	10	BRB-011515P	10	7/8-9	5 1/2	3/4
HK-86440B	100	—	—	#10-24	2/4	5/32	HK-86724B	25	—	7/16-14	5	3/8	HK-72360B	10	BRB-011517P	10	7/8-9	6	3/4	

SOCKET HEAD CAP SCREWS



Made from heat treated alloy steel. Unified 3A thread fit.
See pages 556-558 for hex keys.

Steel Inch Fine Thread

Holo-Krome		Import Line		Thread	Length Under Head	Key Size
Item No.	Pack Qty.	Item No.	Pack Qty.			
HK-77388B	100	BRB-581306P	100	10-32	1/4	5/32
HK-73034B	100	BRB-011121P	100	10-32	3/8	5/32
HK-73036B	100	BRB-011123P	100	10-32	1/2	5/32
HK-73038B	100	BRB-011125P	100	10-32	5/8	5/32
HK-73040B	100	BRB-011127P	100	10-32	3/4	5/32
HK-73042B	100	BRB-011129P	100	10-32	7/8	5/32
HK-73044B	100	BRB-011131P	100	10-32	1	5/32
HK-73046B	100	BRB-011133P	100	10-32	1 1/4	5/32
HK-73048B	100	BRB-011135P	100	10-32	1 1/2	5/32
HK-73050B	100	BRB-011137P	100	10-32	1 3/4	5/32
HK-73052B	100	BRB-011139P	100	10-32	2	5/32
HK-77440B	100	—	—	10-32	2 1/4	5/32
HK-77442B	100	—	—	10-32	2 1/2	5/32
HK-77446B	100	—	—	10-32	3	5/32
HK-73054B	100	BRB-011171P	100	1/4-28	3/8	3/16
HK-73056B	100	BRB-011173P	100	1/4-28	1/2	3/16
HK-73058B	100	BRB-011175P	100	1/4-28	5/8	3/16
HK-73060B	100	BRB-011177P	100	1/4-28	3/4	3/16
HK-73062B	100	BRB-011179P	100	1/4-28	7/8	3/16
HK-73064B	100	BRB-011181P	100	1/4-28	1	3/16
HK-73066B	100	BRB-011183P	100	1/4-28	1 1/4	3/16
HK-73068B	100	BRB-011185P	100	1/4-28	1 1/2	3/16
HK-73070B	100	BRB-011187P	100	1/4-28	1 3/4	3/16
HK-73072B	100	BRB-011189P	100	1/4-28	2	3/16
HK-77478B	100	—	—	1/4-28	3	3/16
HK-73076B	100	BRB-011225P	100	5/16-24	1/2	1/4
HK-73080B	100	BRB-011229P	100	5/16-24	3/4	1/4
HK-73082B	100	BRB-011231P	100	5/16-24	7/8	1/4
HK-73084B	100	BRB-011233P	100	5/16-24	1	1/4
HK-73086B	100	BRB-011235P	100	5/16-24	1 1/4	1/4
HK-73088B	100	BRB-011237P	100	5/16-24	1 1/2	1/4
HK-73090B	100	BRB-011239P	100	5/16-24	1 3/4	1/4
HK-73092B	100	BRB-011241P	100	5/16-24	2	1/4
HK-73096B	100	BRB-011245P	100	5/16-24	2 1/2	1/4
HK-73098B	100	—	—	3/8-24	1/2	5/16
HK-73102B	100	BRB-011287P	100	3/8-24	3/4	5/16
HK-73104B	100	BRB-011289P	100	3/8-24	7/8	5/16
HK-73106B	100	BRB-011291P	100	3/8-24	1	5/16
HK-73108B	100	BRB-011293P	100	3/8-24	1 1/4	5/16
HK-73110B	100	BRB-011295P	100	3/8-24	1 1/2	5/16
HK-73114B	50	BRB-011299P	100	3/8-24	2	5/16
HK-73118B	50	BRB-011303P	50	3/8-24	2 1/2	5/16
HK-73119B	50	—	—	3/8-24	2 3/4	5/16
HK-73120B	50	BRB-011305P	50	3/8-24	3	5/16
HK-73122B	100	BRB-011339P	100	7/16-20	1	3/8
HK-73124B	50	BRB-011340P	100	7/16-20	1 1/4	3/8
HK-73128B	50	BRB-011343P	50	7/16-20	2	3/8
HK-73130B	50	BRB-011393P	50	1/2-20	1	3/8
HK-73132B	50	BRB-011395P	50	1/2-20	1 1/4	3/8
HK-73134B	50	BRB-011397P	50	1/2-20	1 1/2	3/8
HK-73136B	50	BRB-011399P	50	1/2-20	1 3/4	3/8
HK-73138B	50	BRB-011401P	50	1/2-20	2	3/8
HK-73140B	25	BRB-011403P	50	1/2-20	2 1/4	3/8
HK-73142B	25	BRB-011405P	50	1/2-20	2 1/2	3/8
HK-73144B	25	BRB-011407P	50	1/2-20	3	3/8
HK-73146B	25	BRB-011447P	50	3/8-18	1	1/2
HK-73150B	25	BRB-011451P	50	3/8-18	1 1/2	1/2
HK-73154B	25	BRB-011455P	50	3/8-18	2	1/2
HK-73156B	25	BRB-011457P	25	3/8-18	2 1/2	1/2
HK-73158B	25	—	—	3/8-18	2 3/4	1/2
HK-73164B	25	—	—	3/8-18	3 1/2	1/2
HK-73168B	25	—	—	3/8-18	4	1/2
HK-73172B	20	—	—	3/8-18	4 1/2	1/2

Steel Metric Coarse Thread

Holo-Krome		Import Line		Thread	Length Under Head	Key Size
Item No.	Pack Qty.	Item No.	Pack Qty.			
HK-76008B	100	BRB-532004P	100	M3 x .50	6	2.5
HK-76012B	100	BRB-532006P	100	M3 x .50	8	2.5
HK-76016B	100	BRB-532008P	100	M3 x .50	10	2.5
HK-76020B	100	BRB-532010P	100	M3 x .50	12	2.5
HK-76028B	100	BRB-532012P	100	M3 x .50	16	2.5
HK-76060B	100	BRB-532024P	100	M4 x .70	10	3
HK-76072B	100	BRB-532028P	100	M4 x .70	16	3
HK-76076B	100	BRB-532030P	100	M4 x .70	20	3
HK-76080B	100	BRB-532032P	100	M4 x .70	25	3
HK-76084B	100	BRB-532034P	100	M4 x .70	30	3
HK-76088B	100	BRB-532036P	100	M4 x .70	35	3
HK-76092B	100	BRB-532038P	100	M4 x .70	40	3
HK-76100B	100	BRB-532042P	100	M4 x .70	50	3
HK-76108B	100	BRB-532050P	100	M5 x .80	10	4
HK-76112B	100	BRB-532052P	100	M5 x .80	12	4
HK-76114B	100	BRB-532053P	100	M5 x .80	14	4
HK-76120B	100	BRB-532054P	100	M5 x .80	16	4
HK-76124B	100	BRB-532056P	100	M5 x .80	20	4
HK-76128B	100	BRB-532058P	100	M5 x .80	25	4
HK-76132B	100	BRB-532060P	100	M5 x .80	30	4
HK-76136B	100	BRB-532062P	100	M5 x .80	35	4
HK-76140B	100	BRB-532064P	100	M5 x .80	40	4
HK-76156B	100	BRB-532074P	100	M6 x 1.00	10	5
HK-76160B	100	BRB-532076P	100	M6 x 1.00	12	5
HK-76168B	100	BRB-532078P	100	M6 x 1.00	16	5
HK-76170B	100	BRB-532079P	100	M6 x 1.00	18	5
HK-76172B	100	BRB-532080P	100	M6 x 1.00	20	5
HK-76176B	100	BRB-532082P	100	M6 x 1.00	25	5
HK-76180B	100	BRB-532084P	100	M6 x 1.00	30	5
HK-76184B	100	BRB-532086P	100	M6 x 1.00	35	5
HK-76188B	100	BRB-532088P	100	M6 x 1.00	40	5
HK-76192B	100	BRB-532090P	100	M6 x 1.00	45	5
HK-76196B	100	BRB-532092P	100	M6 x 1.00	50	5
HK-76204B	100	BRB-532096P	100	M6 x 1.00	60	5
HK-76200B	100	BRB-532094P	100	M6 x 1.00	55	5
HK-76224B	100	BRB-532108P	100	M8 x 1.25	12	6
HK-76264B	100	BRB-532126P	100	M8 x 1.25	55	6
HK-76232B	100	BRB-532110P	100	M8 x 1.25	16	6
HK-76236B	100	BRB-532112P	100	M8 x 1.25	20	6
HK-76240B	100	BRB-532114P	100	M8 x 1.25	25	6
HK-76244B	100	BRB-532116P	100	M8 x 1.25	30	6
HK-76248B	100	BRB-532118P	100	M8 x 1.25	35	6
HK-76252B	100	BRB-532120P	100	M8 x 1.25	40	6
HK-76256B	100	BRB-532122P	100	M8 x 1.25	45	6
HK-76260B	100	BRB-532124P	100	M8 x 1.25	50	6
HK-76268B	100	BRB-532128P	100	M8 x 1.25	60	6
HK-76292B	100	BRB-532146P	100	M10 x 1.50	16	8
HK-76296B	100	BRB-532148P	100	M10 x 1.50	20	8
HK-76300B	100	BRB-532150P	100	M10 x 1.50	25	8
HK-76304B	100	BRB-532152P	100	M10 x 1.50	30	8
HK-76308B	100	BRB-532154P	100	M10 x 1.50	35	8
HK-76312B	100	BRB-532156P	100	M10 x 1.50	40	8
HK-76320B	100	BRB-532160P	50	M10 x 1.50	50	8
HK-76328B	50	BRB-532164P	50	M10 x 1.50	60	8
HK-76332B	50	BRB-532166P	50	M10 x 1.50	65	8
HK-76340B	50	BRB-532170P	50	M10 x 1.50	75	8
HK-76344B	50	BRB-532172P	50	M10 x 1.50	80	8
HK-76360B	100	BRB-532194P	50	M12 x 1.75	25	10
HK-76364B	100	BRB-532196P	50	M12 x 1.75	30	10
HK-76368B	100	BRB-532198P	50	M12 x 1.75	35	10
HK-76372B	50	BRB-532200P	50	M12 x 1.75	40	10
HK-76376B	50	BRB-532202P	50	M12 x 1.75	45	10
HK-76380B	50	BRB-532204P	50	M12 x 1.75	50	10
HK-76384B	50	BRB-532206P	50	M12 x 1.75	55	10
HK-76388B	50	BRB-532208P	50	M12 x 1.75	60	10
HK-76400B	50	BRB-532214P	25	M12 x 1.75	75	10
HK-76404B	25	BRB-532216P	25	M12 x 1.75	80	10
HK-76408B	25	BRB-532218P	25	M12 x 1.75	90	10
HK-76412B	25	BRB-532220P	25	M12 x 1.75	100	10
HK-76420B	25	BRB-532224P	25	M12 x 1.75	120	10
HK-76422B	10	BRB-532230P	25	M12 x 1.75	150	10
HK-76432B	25	BRB-532250P	25	M16 x 2.00	40	14
HK-76440B	25	BRB-532254P	25	M16 x 2.00	50	14
HK-76448B	25	BRB-532258P	25	M16 x 2.00	60	14
HK-76456B	25	BRB-532262P	25	M16 x 2.00	70	14
HK-76464B	25	BRB-532266P	25	M16 x 2.00	80	14
HK-76468B	25	BRB-532270P	25	M16 x 2.00	90	14
HK-76472B	10	BRB-532272P	25	M16 x 2.00	100	14
HK-76428B	25	BRB-532248P	25	M16 x 2.00	35	14
HK-76492B	10	BRB-532290P	25	M20 x 2.50	50	17
HK-76500B	10	BRB-532294P	25	M20 x 2.50	60	17
HK-76548B	10	BRB-532332P	10	M25 x 3.00	60	19



SOCKET HEAD CAP SCREWS

Stainless Steel
Inch
Coarse or Fine Thread



Made from 302 HQ stainless steel. Unified 3A thread fit.

See pages 556-558 for hex keys.

Holo-Krome		Import Line		Length Under Head	Key Size	Pack Qty.
Item No.	Item No.	Thread				
HK-78004B	BRB-012028P	#2-56		1/4	5/64	100
HK-78006B	BRB-012031P	#2-56		3/8	3/64	100
HK-78010B	BRB-012049P	#4-40		1/4	3/32	100
HK-78012B	BRB-012052P	#4-40		3/8	3/32	100
HK-78014B	BRB-012055P	#4-40		1/2	3/32	100
HK-78016B	BRB-012058P	#6-32		1/4	7/64	100
HK-78018B	BRB-012061P	#6-32		3/8	7/64	100
HK-78020B	BRB-012064P	#6-32		1/2	7/64	100
HK-78022B	BRB-012067P	#6-32		3/4	7/64	100
HK-78024B	BRB-012070P	#6-32		3/8	7/64	100
HK-78026B	BRB-012073P	#8-32		3/8	9/64	100
HK-78028B	BRB-012076P	#8-32		1/2	9/64	100
HK-78030B	BRB-012079P	#8-32		3/4	9/64	100
HK-78032B	BRB-012082P	#8-32		3/4	9/64	100
HK-78034B	BRB-012088P	#8-32		1	9/64	100
HK-78038B	BRB-012093P	#10-24		1/2	5/32	100
HK-78042B	BRB-012097P	#10-24		3/4	5/32	100
HK-78044B	BRB-012099P	#10-24		3/8	5/32	100
HK-78052B	BRB-012139P	1/4-20		3/8	3/16	100
HK-78054B	BRB-012141P	1/4-20		1/2	3/16	100
HK-78056B	BRB-012143P	1/4-20		3/4	3/16	100
HK-78058B	BRB-012145P	1/4-20		3/4	3/16	100
HK-78060B	BRB-012147P	1/4-20		7/8	3/16	100
HK-78062B	BRB-012149P	1/4-20		1	3/16	100
HK-78064B	BRB-012151P	1/4-20		1 1/4	3/16	100
HK-78066B	BRB-012153P	1/4-20		1 1/2	3/16	100
HK-78068B	BRB-012157P	1/4-20		1 3/4	3/16	100
HK-78070B	BRB-012159P	1/4-20		2	3/16	100
HK-78072B	BRB-012189P	3/16-18		1/2	1/4	100
HK-78076B	BRB-012193P	3/16-18		3/4	1/4	100
HK-78080B	BRB-012197P	3/16-18		1	1/4	100
HK-78082B	BRB-012199P	3/16-18		1 1/4	1/4	100
HK-78084B	BRB-012201P	3/16-18		1 1/2	1/4	100
HK-78088B	BRB-012205P	3/16-18		2	1/4	100
HK-78098B	BRB-012243P	3/16-16		1	5/16	100
HK-78100B	BRB-012245P	3/16-16		1 1/4	5/16	100
HK-78102B	BRB-012247P	3/16-16		1 1/2	5/16	100
HK-78104B	—	3/16-16		1 3/4	5/16	50
HK-78106B	—	3/16-16		2	5/16	50
HK-78108B	BRB-012255P	3/16-16		2 1/2	5/16	50
—	BRB-012249P	3/16-16		1 3/4	5/16	100
—	BRB-012251P	3/16-16		2	5/16	100
HK-78112B	BRB-012286P	1/2-13		1	3/8	50
HK-78114B	BRB-012289P	1/2-13		1 1/4	3/8	50
HK-78116B	BRB-012292P	1/2-13		1 1/2	3/8	50
HK-78118B	BRB-012295P	1/2-13		1 3/4	3/8	50
HK-78120B	BRB-012298P	1/2-13		2	3/8	50
HK-79020B	—	10-32		1/2	5/32	100
HK-79022B	—	10-32		3/4	5/32	100
HK-79024B	—	10-32		5/8	5/32	100
HK-79028B	BRB-012117P	#10-32		1	5/32	100
HK-79030B	BRB-012119P	#10-32		1 1/4	5/32	100
HK-79032B	BRB-012121P	#10-32		1 1/2	5/32	100
—	BRB-012109P	#10-32		1/2	5/32	100
—	BRB-012111P	#10-32		3/4	5/32	100
—	BRB-012113P	#10-32		5/8	5/32	100

Brass & Nylon Tipped Socket Head Cap Screws
Alloy Steel with Brass or Nylon Tips



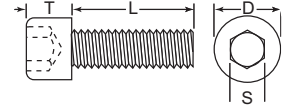
Brass		Nylon		Thread x Lgth.	Tip Dia.	Tip Lgth.	Pack Qty.
Item No.	Item No.						
TNT-115	TNT-215	1/4-20	x 1/2	1/8	1/16	1	
TNT-120	—	1/4-20	x 3/4	1/8	1/16	1	
TNT-125	TNT-225	1/4-20	x 1	1/8	1/16	1	
TNT-130	TNT-230	1/4-20	x 1 1/2	1/8	1/16	1	
—	TNT-255	3/16-16	x 1	3/16	3/32	1	
TNT-145	TNT-245	5/16-18	x 1 1/2	3/16	3/32	1	
TNT-160	TNT-260	3/16-16	x 1 1/2	3/16	3/32	1	
—	TNT-200	10-32	x 1/2	3/32	3/64	1	
—	TNT-205	10-32	x 3/4	3/32	3/64	1	
TNT-110	TNT-210	10-32	x 1	3/32	3/64	1	

Socket Head Cap Screws
With Nylon Locking Pellet



Item No.	Thread x Lgth.	Pellet Dia.	Pack Qty.
TNT-320	10-32 x 1	3/32	1
TNT-330	1/4-20 x 3/4	7/64	1
TNT-350	3/16-18 x 1	1/8	1

SHS Series
Socket Head Bolts



Thread	D (In)	T (In)	S (In)
4-40	0.166/0.180	0.108/0.112	3/32
6-32	0.209/0.233	0.126/0.140	7/64
8-32	0.253/0.267	0.159/0.164	9/64
10-32	0.303/0.312	0.185/0.190	5/32
1/4-20	0.372/0.386	0.250/0.258	3/16
5/16-18	0.459/0.467	0.308/0.322	1/4
3/8-16	0.552/0.560	0.372/0.386	5/16

Specifications:

- Material: Nylon 6/6
- Color: Natural

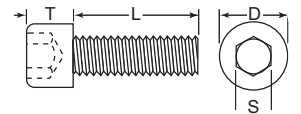
Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	L In	Pack Qty.
SHS1010A	4-40	3/16	1,000
SHS1060A	4-40	1/2	1,000
SHS1110A	4-40	1	1,000
SHS1140A	6-32	1/4	1,000
SHS1180A	6-32	1/2	1,000
SHS1230A	6-32	1	1,000
SHS1320A	8-32	1/2	1,000
SHS1370A	8-32	1	1,000
SHS1420A	8-32	2	1,000
SHS1480A	10-32	1/2	1,000
SHS1530A	10-32	1	1,000

Item No.	Thread	L In	Pack Qty.
SHS1580A	10-32	2	1,000
SHS1600A	1/4-20	1/2	1,000
SHS1610A	1/4-20	3/4	1,000
SHS1620A	1/4-20	1	1,000
SHS1660A	1/4-20	2	1,000
SHS1690A	5/16-18	3/4	1,000
SHS1700A	5/16-18	1	1,000
SHS1740A	5/16-18	2	1,000
SHS1760A	3/8-16	1/2	500
SHS1790A	3/8-16	1 1/4	500

SHSM Series
Metric Socket Head Bolts



Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Thread	D (mm)	T (mm)	S (mm)
M6 X 1.00	10	6	5
M8 X 1.25	13	8	6
M10 X 1.50	16	10	8

Item No.	Thread	L mm	Pack Qty.
SHSM6L10A	M6 x 1.00	6	1,000
SHSM6L16A	M6 x 1.00	10	1,000
SHSM6L25A	M6 x 1.00	16	1,000
SHSM8L10A	M8 x 1.25	25	1,000
SHSM8L16A	M8 x 1.25	6	1,000
SHSM8L25A	M8 x 1.25	10	1,000
SHSM10L16A	M10 x 1.50	16	1,000
SHSM10L30A	M10 x 1.50	25	1,000
SHSM10L60A	M10 x 1.50	6	1,000

SOCKET HEAD CAP SCREWS



Button Head



Heat treated alloy steel. Unified 3A thread fit. Meets ASME/ANSI B18.3.

See pages 556-558 for hex keys.

Holo-Krome		Import Line		Thread	Length Under Head	Key Size
Item No.	Pack Qty.	Item No.	Pack Qty.			
Coarse Thread						
HK-64002B	100	BRB-201017P	100	#4-40	1/4	1/16
HK-64004B	100	BRB-201018P	100	#4-40	3/8	1/16
HK-64006B	100	BRB-201019P	100	#4-40	1/2	1/16
HK-64008B	100	BRB-201020P	100	#6-32	1/4	5/64
HK-64010B	100	BRB-201021P	100	#6-32	3/8	5/64
HK-64012B	100	BRB-201022P	100	#6-32	1/2	5/64
HK-64016B	100	BRB-201024P	100	#8-32	1/4	5/32
HK-64018B	100	BRB-201028P	100	#8-32	3/8	5/32
HK-64020B	100	BRB-201034P	100	#8-32	1/2	5/32
HK-64022B	100	BRB-201040P	100	#8-32	5/8	5/32
HK-64024B	100	BRB-201046P	100	#8-32	3/4	5/32
HK-64026B	100	BRB-201052P	100	#10-24	1/4	1/8
HK-64028B	100	BRB-201055P	100	#10-24	3/8	1/8
HK-64030B	100	BRB-201057P	100	#10-24	1/2	1/8
HK-64032B	100	BRB-201059P	100	#10-24	5/8	1/8
HK-64034B	100	BRB-201061P	100	#10-24	3/4	1/8
HK-64036B	50	BRB-201063P	100	#10-24	7/8	1/8
HK-64038B	50	BRB-201065P	100	#10-24	1	1/8
HK-64040B	100	BRB-201094P	100	1/4-20	3/8	5/32
HK-64042B	100	BRB-201095P	100	1/4-20	1/2	5/32
HK-64044B	100	BRB-201097P	100	1/4-20	5/8	5/32
HK-64046B	100	BRB-201099P	100	1/4-20	3/4	5/32
HK-64048B	50	BRB-201101P	100	1/4-20	7/8	5/32
HK-64050B	50	BRB-201103P	100	1/4-20	1	5/32
HK-64052B	100	BRB-201130P	100	5/16-18	3/8	3/16
HK-64054B	100	BRB-201133P	100	5/16-18	1/2	3/16
HK-64056B	100	BRB-201135P	100	5/16-18	5/8	3/16
HK-64058B	100	BRB-201137P	100	5/16-18	3/4	3/16
HK-64060B	50	BRB-201139P	100	5/16-18	7/8	3/16
HK-64062B	50	BRB-201141P	100	5/16-18	1	3/16
HK-64068B	50	BRB-201171P	100	3/8-16	3/4	7/32
HK-64070B	50	BRB-201173P	100	3/8-16	7/8	7/32
HK-64072B	50	BRB-201175P	100	3/8-16	1	7/32
HK-64074B	50	BRB-201177P	100	3/8-16	1 1/4	7/32
HK-64076B	25	BRB-201202P	100	1/2-13	1	5/16
HK-64080B	25	BRB-201208P	100	1/2-13	1 1/2	5/16
HK-64082B	25	BRB-201211P	50	1/2-13	2	5/16
Fine Thread						
HK-65002B	100	BRB-201067P	100	#10-32	1/4	1/8
HK-65004B	100	BRB-201069P	100	#10-32	3/8	1/8
HK-65006B	100	BRB-201071P	100	#10-32	1/2	1/8
HK-65008B	100	BRB-201073P	100	#10-32	5/8	1/8
HK-65010B	100	BRB-201075P	100	#10-32	3/4	1/8

Low Head



Heat treated alloy steel. Unified 3A thread fit.

Holo-Krome		Import Line		Thread	Length Under Head	Key Size	Max. H.
Item No.	Pack Qty.	Item No.	Pack Qty.				
Coarse Thread							
HK-68002B	100	BRB-019079P	100	8-32	3/8	5/64	.082
HK-68004B	100	BRB-019081P	100	8-32	1/2	5/64	.082
HK-68008B	100	BRB-019085P	100	8-32	3/4	5/64	.082
HK-68010B	100	BRB-019089P	100	8-32	1	5/64	.082
HK-68012B	100	BRB-019101P	100	10-24	3/8	3/32	.095
HK-68014B	100	BRB-019103P	100	10-24	1/2	3/32	.095
HK-68018B	100	BRB-019107P	100	10-24	3/4	3/32	.095
HK-68022B	100	BRB-019143P	100	1/4-20	3/8	1/8	1/8
HK-68024B	100	BRB-019145P	100	1/4-20	1/2	1/8	1/8
HK-68026B	100	BRB-019147P	100	1/4-20	5/8	1/8	1/8
HK-68028B	100	BRB-019149P	100	1/4-20	3/4	1/8	1/8
HK-68030B	100	BRB-019153P	100	1/4-20	1	1/8	1/8
HK-68032B	100	BRB-019195P	100	5/16-18	1/2	5/32	5/32
HK-68034B	100	BRB-019199P	100	5/16-18	3/4	5/32	5/32
HK-68036B	100	BRB-019203P	100	5/16-18	1	5/32	5/32
HK-68038B	100	BRB-019205P	100	5/16-18	1 1/4	5/32	5/32
HK-68040B	100	BRB-019207P	100	5/16-18	1 1/2	5/32	5/32
HK-68042B	100	BRB-019247P	100	3/8-16	1/2	3/16	3/16
HK-68044B	100	BRB-019251P	100	3/8-16	3/4	3/16	3/16
HK-68046B	100	BRB-019255P	100	3/8-16	1	3/16	3/16
HK-68048B	100	BRB-019257P	100	3/8-16	1 1/4	3/16	3/16
HK-68050B	100	BRB-019259P	100	3/8-16	1 1/2	3/16	3/16
HK-68052B	50	BRB-019355P	100	1/2-13	1	1/4	1/4
HK-68054B	50	BRB-019357P	100	1/2-13	1 1/4	1/4	1/4
HK-68056B	50	BRB-019359P	50	1/2-13	1 1/2	1/4	1/4
Fine Thread							
HK-69002B	100	BRB-019121P	100	10-32	3/8	3/32	.095
HK-69004B	100	BRB-019123P	100	10-32	1/2	3/32	.095
HK-69006B	100	BRB-019125P	100	10-32	3/4	3/32	.095
HK-69008B	100	BRB-019127P	100	10-32	1	3/32	.095

Flat Head



Heat treated alloy steel. Unified 3A thread fit. Meets ASME/ANSI B18.3.

See pages 556-558 for hex keys.

Holo-Krome		Import Line		Thread	Length Under Head	Key Size
Item No.	Pack Qty.	Item No.	Pack Qty.			
Coarse Thread						
HK-60002B	100	BRB-211017P	100	4-40	1/4	1/16
HK-60004B	100	BRB-211018P	100	4-40	3/8	1/16
HK-60006B	100	BRB-211019P	100	4-40	1/2	1/16
HK-60008B	100	BRB-211020P	100	4-40	5/8	1/16
HK-60010B	100	BRB-211021P	100	4-40	3/4	1/16
HK-60012B	100	BRB-211022P	100	5-40	1/4	5/64
HK-60014B	100	BRB-211023P	100	5-40	3/8	5/64
HK-60018B	100	BRB-211025P	100	5-40	5/8	5/64
HK-60020B	100	BRB-211028P	100	5-40	3/4	5/64
HK-60022B	100	BRB-211031P	100	6-32	1/4	5/64
HK-60024B	100	BRB-211034P	100	6-32	3/8	5/64
HK-60026B	100	BRB-211037P	100	6-32	1/2	5/64
HK-60028B	100	BRB-211040P	100	6-32	5/8	5/64
HK-60030B	100	BRB-211043P	100	6-32	3/4	5/64
HK-60032B	100	BRB-211046P	100	8-32	3/8	5/32
HK-60034B	100	BRB-211049P	100	8-32	1/2	5/32
HK-60036B	100	BRB-211052P	100	8-32	5/8	5/32
HK-60038B	100	BRB-211055P	100	8-32	3/4	5/32
HK-60040B	100	BRB-211058P	100	8-32	1	5/32
HK-60042B	100	BRB-211061P	100	10-24	3/8	1/8
HK-60044B	100	BRB-211063P	100	10-24	1/2	1/8
HK-60046B	100	BRB-211065P	100	10-24	5/8	1/8
HK-60048B	100	BRB-211067P	100	10-24	3/4	1/8
HK-60050B	100	BRB-211069P	100	10-24	1	1/8
HK-60052B	100	BRB-211071P	100	10-24	1 1/4	1/8
HK-60054B	100	BRB-211073P	100	10-24	1 1/2	1/8
HK-60056B	100	BRB-211103P	100	1/4-20	3/8	5/32
HK-60058B	100	BRB-211105P	100	1/4-20	1/2	5/32
HK-60060B	100	BRB-211107P	100	1/4-20	5/8	5/32
HK-60062B	100	BRB-211109P	100	1/4-20	3/4	5/32
HK-60064B	100	BRB-211111P	100	1/4-20	1	5/32
HK-60066B	100	BRB-211113P	100	1/4-20	1 1/4	5/32
HK-60068B	100	BRB-211115P	100	1/4-20	1 1/2	5/32
HK-60070B	100	BRB-211117P	100	1/4-20	1 3/4	5/32
HK-60072B	100	BRB-211119P	100	1/4-20	2	5/32
HK-60074B	100	BRB-211157P	100	5/16-18	1/2	3/16
HK-60076B	100	BRB-211159P	100	5/16-18	5/8	3/16
HK-60078B	100	BRB-211161P	100	5/16-18	3/4	3/16
HK-60080B	100	BRB-211163P	100	5/16-18	1	3/16
HK-60082B	100	BRB-211165P	100	5/16-18	1 1/4	3/16
HK-60084B	100	BRB-211167P	100	5/16-18	1 1/2	3/16
HK-60086B	100	BRB-211169P	100	5/16-18	1 3/4	3/16
HK-60088B	100	BRB-211171P	100	5/16-18	2	3/16
HK-60090B	100	BRB-211173P	100	5/16-18	2 1/4	3/16
HK-60092B	100	BRB-211175P	100	5/16-18	2 1/2	3/16
HK-60094B	100	BRB-211205P	100	3/8-16	1/2	7/32
HK-60098B	100	BRB-211209P	100	3/8-16	3/4	7/32
HK-60100B	100	BRB-211211P	100	3/8-16	1	7/32
HK-60102B	100	BRB-211213P	100	3/8-16	1 1/4	7/32
HK-60104B	100	BRB-211215P	100	3/8-16	1 1/2	7/32
HK-60106B	50	BRB-211217P	100	3/8-16	1 3/4	7/32
HK-60108B	50	BRB-211219P	100	3/8-16	2	7/32
HK-60110B	50	BRB-211221P	100	3/8-16	2 1/4	7/32
HK-60112B	50	BRB-211223P	50	3/8-16	2 1/2	7/32
HK-60114B	50	BRB-211225P	50	3/8-16	3	7/32
HK-60118B	100	BRB-21126				



Specification	Material	Nominal Size (In.)	Proof Load (psi)	Tensile Strength (psi)		Core Hardness		Surface Hardness
				Min.	Max.	Min.	Max.	
SAE-Grade 5	Med. Carbon Steel Quenched and Tempered Zinc Chromate Finish	¼ Through 1	85,000	120,000	C25	C34	30N54	
		Over 1 Through 1½	74,000	105,000	C19	C30	30N50	
SAE-Grade 8	Med. Carbon Alloy Steel Quenched and Tempered Zinc Gold Chromate Finish	¼ Through 1	120,000	150,000	C33	C39	30N88.6	
18-8 Stainless Steel	300 Series Stainless Steel	¼ Through ¾	—	90,000	B85	B95	—	

Cap Screw Dia.	Width Across Flats	Thread Height	Thread Length (Min.)
¼	7/16	5/32	0.750
5/16	½	13/64	0.875
3/8	9/16	15/64	1.000
7/16	¾	9/32	1.125
½	¾	5/16	1.250
9/16	1 1/16	23/64	1.375
5/8	1 1/16	25/64	1.500
¾	1 ½	15/32	1.750
7/8	1 ¾	35/64	2.000
1	1 ½	35/64	2.250



Grade 5



Grade 8



18-8 Stainless Steel

Grade 5		Grade 8		18-8		Length
Item No.	Pack Qty.	Item No.	Pack Qty.	Item No.	Pack Qty.	
¼-20 Coarse Thread						
ROC-301-537	100	ROC-501-537	100	ROC-901-537	100	½
ROC-301-539	100	—	—	ROC-901-539	100	¾
ROC-301-540	100	ROC-501-540	100	ROC-901-540	100	¾
ROC-301-542	100	ROC-501-542	100	ROC-901-542	100	1
ROC-301-544	100	ROC-501-544	100	ROC-901-544	100	1¼
ROC-301-546	100	ROC-501-546	100	ROC-901-546	100	1½
ROC-301-548	100	ROC-501-548	100	ROC-901-548	100	1¾
ROC-301-550	100	ROC-501-550	100	ROC-901-550	100	2
ROC-301-551	100	ROC-501-551	100	—	—	2¼
ROC-301-552	100	ROC-501-552	100	ROC-901-552	50	2½
ROC-301-553	100	ROC-501-553	100	ROC-901-553	50	2¾
ROC-301-554	100	—	—	ROC-901-554	50	3
ROC-301-556	100	ROC-501-556	100	ROC-901-556	50	3½
ROC-301-558	100	ROC-501-558	100	ROC-901-558	50	4
¼-28 Fine Thread						
ROC-401-537	100	ROC-601-537	100	—	—	½
ROC-401-540	100	ROC-601-540	100	—	—	¾
ROC-401-542	100	ROC-601-542	100	—	—	1
ROC-401-544	100	ROC-601-544	100	—	—	1¼
ROC-401-546	100	ROC-601-546	100	—	—	1½
ROC-401-548	100	ROC-601-548	100	—	—	1¾
ROC-401-550	100	ROC-601-550	100	—	—	2
ROC-401-552	100	ROC-601-552	100	—	—	2½
ROC-401-554	100	ROC-601-554	100	—	—	3
ROC-401-556	100	ROC-601-556	100	—	—	3½
ROC-401-558	100	ROC-601-558	100	—	—	4
5/16-18 Coarse Thread						
ROC-301-578	100	ROC-501-578	100	ROC-901-578	100	½
ROC-301-581	100	ROC-501-581	100	ROC-901-581	100	¾
ROC-301-583	100	ROC-501-583	100	ROC-901-583	100	1
ROC-301-585	100	ROC-501-585	100	ROC-901-585	100	1¼
ROC-301-587	100	ROC-501-587	100	ROC-901-587	100	1½
ROC-301-591	100	ROC-501-591	100	ROC-901-591	100	2
ROC-301-592	100	ROC-501-592	100	ROC-901-592	50	2¼
ROC-301-593	100	ROC-501-593	100	ROC-901-593	50	2½
ROC-301-595	100	—	—	ROC-901-595	50	3
ROC-301-597	50	ROC-501-597	50	ROC-901-597	50	3½
ROC-301-599	50	ROC-501-599	50	ROC-901-599	50	4
5/16-24 Fine Thread						
ROC-401-578	100	ROC-601-578	100	—	—	½
ROC-401-581	100	ROC-601-581	100	—	—	¾
ROC-401-583	100	ROC-601-583	100	—	—	1
ROC-401-585	100	ROC-601-585	100	—	—	1¼
ROC-401-587	100	ROC-601-587	100	—	—	1½
ROC-401-591	100	ROC-601-591	100	—	—	2
3/8-16 Coarse Thread						
ROC-301-619	100	ROC-501-619	100	—	—	½
ROC-301-622	100	ROC-501-622	100	ROC-901-622	100	¾
ROC-301-624	100	ROC-501-624	100	—	—	1
ROC-301-626	100	ROC-501-626	100	ROC-901-626	100	1¼
ROC-301-628	100	ROC-501-628	100	ROC-901-628	100	1½
ROC-301-630	100	ROC-501-630	100	ROC-901-630	100	1¾
ROC-301-632	100	ROC-501-632	100	ROC-901-632	100	2
ROC-301-633	50	ROC-501-633	50	ROC-901-633	50	2¼
ROC-301-634	50	ROC-501-634	50	ROC-901-634	50	2½
ROC-301-635	50	—	—	ROC-901-635	50	2¾
ROC-301-636	50	ROC-501-636	50	ROC-901-636	50	3
ROC-301-640	50	ROC-501-640	50	ROC-901-640	50	4
ROC-301-644	50	ROC-501-644	50	ROC-901-644	50	5
ROC-301-648	50	ROC-501-648	50	ROC-901-648	50	6
3/8-24 Fine Thread						
ROC-401-624	100	ROC-601-624	100	—	—	1
ROC-401-626	100	ROC-601-626	100	—	—	1¼
ROC-401-628	100	ROC-601-628	100	—	—	1½
ROC-401-632	100	ROC-601-632	100	—	—	2
ROC-401-634	50	ROC-601-634	50	—	—	2½
ROC-401-636	50	ROC-601-636	50	—	—	3
7/16-14 Coarse Thread						
ROC-301-669	100	ROC-501-669	100	ROC-901-669	100	1
ROC-301-673	50	ROC-501-673	50	ROC-901-673	50	1½
ROC-301-677	50	ROC-501-677	50	ROC-901-677	50	2
ROC-301-679	50	ROC-501-679	50	ROC-901-679	50	2½

HEX HEAD CAP SCREWS



Specification	Material	Nominal Size (In.)	Proof Load (psi)	Tensile Strength (psi)	Core Hardness Min.	Core Hardness Max.	Surface Hardness Max.
SAE-Grade 5	Med. Carbon Steel	¼ Through 1	85,000	120,000	C25	C34	30N54
	Quenched and Tempered Zinc Chromate Finish	Over 1 Through 1½	74,000	105,000	C19	C30	30N50
SAE-Grade 8	Med. Carbon Alloy Steel	¼ Through 1	120,000	150,000	C33	C39	30N88.6
18-8 Stainless Steel	Quenched and Tempered Zinc Gold Chromate Finish	¼ Through ¾	—	90,000	B85	B95	—
	300 Series Stainless Steel						

Cap Screw Dia.	Width Across Flats	Thread Height	Thread Length (Min.)
¼	7/16	5/32	0.750
5/16	½	13/64	0.875
3/8	9/16	15/64	1.000
7/16	5/8	9/32	1.125
½	¾	5/16	1.250
9/16	13/16	23/64	1.375
5/8	15/16	25/64	1.500
¾	1 1/8	15/32	1.750
7/8	1 5/16	35/64	2.000
1	1 ½	39/64	2.250



Grade 5



Grade 8



18-8 Stainless Steel

Grade 5		Grade 8		18-8		Length
Item No.	Pack Qty.	Item No.	Pack Qty.	Item No.	Pack Qty.	
½-13 Coarse Thread						
ROC-301-710	50	ROC-501-710	50	ROC-901-710	50	¾
ROC-301-712	50	ROC-501-712	50	ROC-901-712	50	1
ROC-301-714	50	ROC-501-714	50	ROC-901-714	50	1¼
ROC-301-716	50	ROC-501-716	50	ROC-901-716	50	1½
ROC-301-718	50	ROC-501-718	50	ROC-901-718	50	1¾
ROC-301-720	50	ROC-501-720	50	—	—	2
ROC-301-721	50	ROC-501-721	50	ROC-901-721	50	2¼
ROC-301-722	50	ROC-501-722	50	ROC-901-722	50	2½
ROC-301-723	50	ROC-501-723	50	ROC-901-723	50	2¾
ROC-301-724	50	ROC-501-724	50	ROC-901-724	50	3
ROC-301-726	25	ROC-501-726	25	ROC-901-726	25	3½
ROC-301-728	25	ROC-501-728	25	ROC-901-728	25	4
ROC-301-730	25	ROC-501-730	25	ROC-901-730	25	4½
—	—	ROC-501-732	25	ROC-901-732	25	5
ROC-301-734	25	ROC-501-734	25	ROC-901-734	25	5½
ROC-301-736	25	ROC-501-736	25	ROC-901-736	25	6
ROC-301-738	25	ROC-501-738	25	—	—	7
½-20 Fine Thread						
ROC-401-712	50	ROC-601-712	50	—	—	1
ROC-401-716	50	ROC-601-716	50	—	—	1½
ROC-401-720	50	ROC-601-720	50	—	—	2
ROC-401-724	50	ROC-601-724	50	—	—	3
ROC-401-728	25	ROC-601-728	25	—	—	4
¾-11 Coarse Thread						
ROC-301-798	25	ROC-501-798	25	ROC-901-798	25	1½
ROC-301-800	25	ROC-501-800	25	ROC-901-800	25	1¾
ROC-301-802	25	ROC-501-802	25	ROC-901-802	25	2
ROC-301-803	25	ROC-501-803	25	ROC-901-803	25	2¼
ROC-301-804	25	ROC-501-804	25	ROC-901-804	25	2½
ROC-301-805	25	ROC-501-805	25	ROC-901-805	25	2¾
ROC-301-806	25	ROC-501-806	25	ROC-901-806	25	3
ROC-301-808	25	ROC-501-808	25	ROC-901-808	25	3½
ROC-301-810	25	ROC-501-810	25	ROC-901-810	25	4
ROC-301-812	25	ROC-501-812	25	ROC-901-812	25	4½
ROC-301-814	25	ROC-501-814	25	ROC-901-814	25	5
ROC-301-818	25	ROC-501-818	25	ROC-901-818	25	6
¾-18 Fine Thread						
ROC-401-794	25	ROC-601-794	25	—	—	1
ROC-401-802	25	ROC-601-802	25	—	—	2
ROC-401-804	25	ROC-601-804	25	—	—	2½
ROC-401-806	25	ROC-601-806	25	—	—	3
ROC-401-810	25	—	—	—	—	4
—	—	ROC-601-814	25	—	—	5
¾-10 Coarse Thread						
ROC-301-839	20	—	—	ROC-901-839	20	1½
ROC-301-843	20	ROC-501-843	20	ROC-901-843	20	2
ROC-301-845	20	ROC-501-845	20	ROC-901-845	20	2½
ROC-301-847	20	ROC-501-847	20	ROC-901-847	20	3
ROC-301-849	20	ROC-501-849	20	ROC-901-849	20	3½
ROC-301-851	20	ROC-501-851	20	ROC-901-851	20	4
ROC-301-855	20	ROC-501-855	20	ROC-901-855	20	5
ROC-301-859	20	ROC-501-859	20	ROC-901-859	20	6
ROC-301-861	20	ROC-501-861	20	—	—	7
¾-16 Fine Thread						
ROC-401-843	20	ROC-601-843	20	—	—	2
ROC-401-845	20	ROC-601-845	20	—	—	2½
ROC-401-847	20	ROC-601-847	20	—	—	3
ROC-401-849	20	ROC-601-849	20	—	—	3½
ROC-401-851	20	ROC-601-851	20	—	—	4
ROC-401-855	20	ROC-601-855	20	—	—	5
¾-9 Coarse Thread						
ROC-301-880	15	ROC-501-880	15	—	—	2
ROC-301-882	15	ROC-501-882	15	—	—	2½
ROC-301-884	15	ROC-501-884	15	—	—	3
ROC-301-888	15	ROC-501-888	15	—	—	4
ROC-301-892	15	ROC-501-892	15	—	—	5
ROC-301-896	15	ROC-501-896	15	—	—	6
1-8 Coarse Thread						
ROC-301-912	10	ROC-501-912	10	—	—	2
ROC-301-914	10	ROC-501-914	10	—	—	2½
ROC-301-916	10	ROC-501-916	10	—	—	3
ROC-301-920	10	ROC-501-920	10	—	—	4
ROC-301-924	10	ROC-501-924	10	—	—	5
—	—	ROC-501-928	10	—	—	6



Metric Class 8.8 Hex Head Cap Screws



Meets or exceeds J1061, SAE J119 and ASME/ANSI B18.2.3.1M standards. Zinc chromate finish. Proof load: 87,000 psi. Tensile strength: 120,350 psi. Comparable to SAE Grade 5.

Cap Screw Diameter	Thread Length mm (In.)	Width Across Flats (Wrench Size) mm (In.)	Head Height mm (In.)
M4 (0.157)	14.0 (0.551)	7.0 (0.275)	3.0 (0.118)
M5 (0.197)	16.0 (0.636)	8.0 (0.315)	3.65 (0.144)
M6 (0.236)	18.0 (0.708)	10.0 (0.394)	4.15 (0.163)
M8 (0.315)	22.0 (0.886)	13.0 (0.512)	5.50 (0.216)
M10 (0.394)	26.0 (1.023)	16.0 (0.630)	6.63 (0.261)
M12 (0.472)	30.0 (1.181)	18.0 (0.776)	7.76 (0.305)
M14 (0.551)	34.0 (1.338)	21.0 (0.827)	9.09 (0.358)
M16 (0.630)	38.0 (1.496)	24.0 (0.945)	10.32 (0.406)
M18 (0.708)	42.0 (1.654)	27.0 (1.063)	11.50 (0.458)
M20 (0.788)	46.0 (1.811)	30.0 (1.181)	12.88 (0.507)
M24 (0.944)	54.0 (2.126)	36.0 (1.417)	15.44 (0.608)

Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.
M4 x .70 - Standard Thread			M8 x 1.00 - Fine Thread			M10 x 1.50 - Standard Thread			M12 x 1.75 - Standard Thread			M16 x 2.00 - Standard Thread		
ROC-2801-037	10	50	ROC-2802-720	60	25	ROC-2801-129	16	50	ROC-2801-190	30	25	ROC-2801-231	40	15
ROC-2801-039	16	50	ROC-2802-721	70	25	ROC-2801-126	20	50	ROC-2801-201	35	25	ROC-2801-233	45	15
ROC-2801-041	20	50	ROC-2802-722	80	15	ROC-2801-128	25	50	ROC-2801-192	40	25	ROC-2801-235	50	15
ROC-2801-042	25	50	M8 x 1.25 - Standard Thread			ROC-2801-130	30	25	ROC-2801-202	45	25	ROC-2801-215	55	15
ROC-2801-044	35	50	ROC-2801-102	10	50	ROC-2801-131	35	25	ROC-2801-194	50	25	ROC-2801-216	60	15
M5 x .80 - Standard Thread			ROC-2801-103	12	50	ROC-2801-132	40	25	ROC-2801-195	55	25	ROC-2801-217	65	15
ROC-2801-050	10	50	ROC-2801-104	16	50	ROC-2801-133	45	25	ROC-2801-196	60	25	ROC-2801-218	70	15
ROC-2801-051	12	50	ROC-2801-107	18	50	ROC-2801-134	50	25	ROC-2801-203	65	25	ROC-2801-239	75	15
ROC-2801-053	16	50	ROC-2801-106	20	50	ROC-2801-135	55	25	ROC-2801-204	70	25	ROC-2801-241	80	15
ROC-2801-055	20	50	ROC-2801-109	22	50	ROC-2801-136	60	25	ROC-2801-205	75	25	ROC-2801-221	90	15
ROC-2801-056	25	50	ROC-2801-108	25	50	ROC-2801-137	65	25	ROC-2801-206	80	15	ROC-2801-223	100	15
ROC-2801-058	30	50	ROC-2801-110	30	50	ROC-2801-138	70	25	ROC-2801-208	90	15	ROC-2801-245	110	15
ROC-2801-059	35	50	ROC-2801-111	35	50	ROC-2801-139	75	15	ROC-2801-209	100	15	ROC-2801-225	120	15
ROC-2801-060	40	50	ROC-2801-112	40	50	ROC-2801-140	80	15	ROC-2801-210	110	15	ROC-2801-247	130	15
ROC-2801-062	50	25	ROC-2801-113	45	50	ROC-2801-142	90	15	ROC-2801-211	120	15	ROC-2801-248	140	15
M6 x 1.00 - Standard Thread			ROC-2801-114	50	50	ROC-2801-144	100	15	ROC-2801-213	130	15	ROC-2801-249	150	15
ROC-2801-065	10	50	ROC-2801-116	55	25	ROC-2801-146	110	15	M14 x 1.50 - Fine Thread			M18 x 2.50 - Standard Thread		
ROC-2801-066	12	50	ROC-2801-115	60	25	ROC-2801-148	120	15	ROC-2802-790	30	25	ROC-2801-280	40	15
ROC-2801-067	16	50	ROC-2801-120	65	25	M12 x 1.25 - Extra Fine Thread			ROC-2802-792	35	25	ROC-2801-284	60	15
ROC-2801-068	18	50	ROC-2801-117	70	25	ROC-2802-752	20	25	ROC-2802-794	40	25	ROC-2801-286	80	15
ROC-2801-069	20	50	ROC-2801-118	75	25	ROC-2802-753	25	25	ROC-2802-796	50	25	ROC-2801-288	100	15
ROC-2801-071	25	50	ROC-2801-119	80	15	ROC-2802-755	30	25	ROC-2802-798	60	15	M20 x 2.50 - Standard Thread		
ROC-2801-073	30	50	ROC-2801-121	90	15	ROC-2802-756	35	25	ROC-2802-800	75	15	ROC-2801-310	40	10
ROC-2801-074	35	50	ROC-2801-123	100	15	ROC-2802-757	40	25	ROC-2802-802	100	15	ROC-2801-311	45	10
ROC-2801-075	40	50	ROC-2801-124	110	15	ROC-2802-759	45	25	M14 x 2.00 - Standard Thread			ROC-2801-312	50	10
ROC-2801-076	45	50	ROC-2801-125	120	15	ROC-2802-758	50	25	ROC-2801-250	20	25	ROC-2801-314	55	10
ROC-2801-077	50	50	M10 x 1.00 - Extra Fine Thread			ROC-2802-760	60	25	ROC-2801-251	25	25	ROC-2801-316	60	10
ROC-2801-078	60	50	ROC-2802-725	20	50	ROC-2802-781	100	15	ROC-2801-253	30	25	ROC-2801-318	65	10
ROC-2801-079	65	25	ROC-2802-727	25	50	ROC-2802-782	110	15	ROC-2801-255	35	25	ROC-2801-320	70	10
ROC-2801-080	70	25	ROC-2802-728	30	25	ROC-2802-784	120	15	ROC-2801-257	40	25	ROC-2801-324	80	10
ROC-2801-082	80	25	ROC-2802-731	40	25	M12 x 1.50 - Fine Thread			ROC-2801-258	45	25	ROC-2801-326	90	10
M7 x 1.00 - Standard Thread			ROC-2802-732	50	25	ROC-2802-764	20	25	ROC-2801-259	50	25	ROC-2801-328	100	10
ROC-2801-088	16	50	M10 x 1.25 - Fine Thread			ROC-2802-767	30	25	ROC-2801-260	55	15	ROC-2801-330	110	10
ROC-2801-091	25	50	ROC-2802-738	20	25	ROC-2802-768	35	25	ROC-2801-261	60	15	ROC-2801-332	120	10
ROC-2801-092	30	50	ROC-2802-740	25	25	ROC-2802-770	40	25	ROC-2801-262	65	15	ROC-2801-334	130	10
ROC-2801-094	40	50	ROC-2802-741	30	25	ROC-2802-771	50	25	ROC-2801-263	70	15	ROC-2801-336	140	10
ROC-2801-096	50	50	ROC-2802-743	35	25	ROC-2802-772	55	25	ROC-2801-264	75	15	ROC-2801-338	150	10
M8 x 1.00 - Fine Thread			ROC-2802-744	40	25	ROC-2802-773	60	25	ROC-2801-265	80	15	M24 x 3.00 - Standard Thread		
ROC-2802-711	10	50	ROC-2802-745	50	25	ROC-2802-776	70	25	ROC-2801-267	90	15	ROC-2801-350	40	10
ROC-2802-712	20	50	ROC-2802-746	55	25	ROC-2802-775	75	25	ROC-2801-269	100	15	ROC-2801-351	50	10
ROC-2802-714	25	50	ROC-2802-747	60	25	ROC-2802-778	90	15	ROC-2801-271	110	15	ROC-2801-352	60	10
ROC-2802-715	30	50	ROC-2802-748	70	25	ROC-2802-780	100	15	ROC-2801-273	120	15	ROC-2801-353	70	10
ROC-2802-716	45	25	ROC-2802-749	80	15	M12 x 1.75 - Standard Thread			ROC-2801-275	130	15	ROC-2801-354	80	10
ROC-2802-717	35	50	ROC-2802-750	90	15	ROC-2801-184	16	25	M16 x 2.00 - Standard Thread			ROC-2801-358	100	10
ROC-2802-718	40	50	ROC-2802-751	100	15	ROC-2801-188	20	25	ROC-2801-227	25	15			
ROC-2802-719	50	50				ROC-2801-200	25	25	ROC-2801-229	30	15			

Metric Class 10.9 Hex Head Cap Screws



Comparable to SAE Grade 8. Zinc and gold chromate plated. Meets or exceeds ASME/ANSI B18.2.3.1M standards. Proof load: 120,350 psi. Tensile strength: 150,800 psi.

Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.	Item No.	Length	Pack Qty.
M6 x 1.00 - Standard Thread			M8 x 1.25 - Standard Thread			M10 x 1.50 - Standard Thread			M12 x 1.75 - Standard Thread			M16 x 2.00 - Standard Thread		
ROC-2818-066	12	50	ROC-2818-111	35	50	ROC-2818-136	60	25	ROC-2818-206	80	15	ROC-2818-229	30	15
ROC-2818-067	16	50	ROC-2818-112	40	50	ROC-2818-137	65	25	ROC-2818-208	90	15	ROC-2818-230	35	15
ROC-2818-068	18	50	ROC-2818-113	45	50	ROC-2818-138	70	25	ROC-2818-209	100	15	ROC-2818-231	40	15
ROC-2818-069	20	50	ROC-2818-114	50	50	ROC-2818-142	90	15	ROC-2818-210	110	15	ROC-2818-233	45	15
ROC-2818-071	25	50	ROC-2818-115	60	25	ROC-2818-144	100	15	M14 x 2.00 - Standard Thread			ROC-2818-235	50	15
ROC-2818-073	30	50	ROC-2818-116	55	25	M12 x 1.75 - Standard Thread			ROC-2818-251	25	25	ROC-2818-215	55	15
ROC-2818-074	35	50	ROC-2818-117	70	25	ROC-2818-188	20	25	ROC-2818-253	30	25	ROC-2818-216	60	15
ROC-2818-075	40	50	M10 x 1.50 - Standard Thread			ROC-2818-200	25	25	ROC-2818-255	35	25	ROC-2818-217	65	15
ROC-2818-076	45	50	ROC-2818-126	20	50	ROC-2818-190	30	25	ROC-2818-257	40	25	ROC-2818-218	70	15
ROC-2818-077	50	50	ROC-2818-128	25	50	ROC-2818-201	35	25	ROC-2818-259	50	25	ROC-2818-241	80	10
ROC-2818-078	60	50	ROC-2818-130	30	50	ROC-2818-192	40	25	ROC-2818-261	60	15	ROC-2818-221	90	10
M8 x 1.25 - Standard Thread			ROC-2818-131	35	25	ROC-2818-202	45	25	ROC-2818-263	70	15	ROC-2818-223	100	5
ROC-2818-104	16	50	ROC-2818-132	40	25	ROC-2818-194	50	25	ROC-2818-265	80	15	ROC-2818-245	110	5
ROC-2818-106	20	50	ROC-2818-133	45	25	ROC-2818-195	55	25	ROC-2818-267	90	15	ROC-2818-225	120	5
ROC-2818-108	25	50	ROC-2818-134	50	25	ROC-2818-196	60	25	ROC-2818-269	100	10			
ROC-2818-110	30	50	ROC-2818-135	55	25	ROC-2818-204	70	25	ROC-2818-271	110	10			



Tap Bolts Grade 5 Hex Head Fully Threaded



Zinc chromate plated. Proof load 85,000 PSI, tensile strength 120,000. Meets or exceeds SAE J489, J1061,

ASTM A449 and ASME/ANSI B18.2.1 specifications. Coarse thread.

Item No.	Size	Length	Pack Qty.
ROC-302-542	1/4-20	1	100
ROC-302-544	1/4-20	1 1/4	100
ROC-302-546	1/4-20	1 1/2	100
ROC-302-548	1/4-20	1 3/4	100
ROC-302-550	1/4-20	2	100
ROC-302-551	1/4-20	2 1/4	100
ROC-302-552	1/4-20	2 1/2	100
ROC-302-585	5/16-18	1 1/4	100
ROC-302-587	5/16-18	1 1/2	100
ROC-302-589	5/16-18	1 3/4	100
ROC-302-591	5/16-18	2	100
ROC-302-592	5/16-18	2 1/4	100
ROC-302-593	5/16-18	2 1/2	100
ROC-302-595	5/16-18	3	100
ROC-302-626	3/8-16	1 1/4	100
ROC-302-628	3/8-16	1 1/2	100
ROC-302-630	3/8-16	1 3/4	100
ROC-302-632	3/8-16	2	100
ROC-302-634	3/8-16	2 1/2	50
ROC-302-636	3/8-16	3	50
ROC-302-638	3/8-16	3 1/4	50
ROC-302-716	1/2-13	1 1/2	50
ROC-302-718	1/2-13	1 3/4	50
ROC-302-720	1/2-13	2	50
ROC-302-722	1/2-13	2 1/2	50
ROC-302-724	1/2-13	3	50
ROC-302-726	1/2-13	3 1/2	25
ROC-302-800	5/8-11	1 3/4	25
ROC-302-802	5/8-11	2	25
ROC-302-804	5/8-11	2 1/2	25
ROC-302-806	5/8-11	3	25
ROC-302-808	5/8-11	3 1/2	25
ROC-302-845	3/4-10	2 1/2	25
ROC-302-847	3/4-10	3	25
ROC-302-849	3/4-10	3 1/2	25
ROC-302-851	3/4-10	4	25
ROC-302-855	3/4-10	5	25

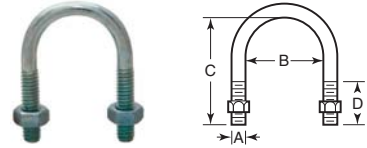
Carriage Bolts



Square shoulder on shank requires a square punched hole, prevents turning when hex nut is tightened. UNC-USS coarse thread, zinc chromate finish.

Item No.	Size	Length	Pack Qty.
ROC-2131-537	1/4-20	1/2	100
ROC-2131-540	1/4-20	3/4	100
ROC-2131-542	1/4-20	1	100
ROC-2131-544	1/4-20	1 1/4	100
ROC-2131-546	1/4-20	1 1/2	100
ROC-2131-550	1/4-20	2	100
ROC-2131-552	1/4-20	2 1/2	100
ROC-2131-581	5/16-18	3/4	100
ROC-2131-583	5/16-18	1	100
ROC-2131-585	5/16-18	1 1/4	100
ROC-2131-587	5/16-18	1 1/2	100
ROC-2131-591	5/16-18	2	100
ROC-2131-593	5/16-18	2 1/2	100
ROC-2131-595	5/16-18	3	100
ROC-2131-622	3/8-16	3/4	100
ROC-2131-624	3/8-16	1	100
ROC-2131-626	3/8-16	1 1/4	50
ROC-2131-628	3/8-16	1 1/2	100
ROC-2131-630	3/8-16	1 3/4	100
ROC-2131-632	3/8-16	2	100
ROC-2131-633	3/8-16	2 1/4	50
ROC-2131-634	3/8-16	2 1/2	50
ROC-2131-636	3/8-16	3	50
ROC-2131-638	3/8-16	3 1/2	50
ROC-2131-640	3/8-16	4	50
ROC-2131-671	7/16-14	1 1/4	50
ROC-2131-673	7/16-14	1 1/2	50
ROC-2131-675	7/16-14	1 3/4	50
ROC-2131-677	7/16-14	2	50
ROC-2131-679	7/16-14	2 1/2	50
ROC-2131-681	7/16-14	3	50
ROC-2131-683	7/16-14	3 1/2	25
ROC-2131-685	7/16-14	4	100
ROC-2131-712	1/2-13	1	50
ROC-2131-714	1/2-13	1 1/4	50
ROC-2131-716	1/2-13	1 1/2	50
ROC-2131-718	1/2-13	1 3/4	50
ROC-2131-720	1/2-13	2	50
ROC-2131-722	1/2-13	2 1/2	50
ROC-2131-724	1/2-13	3	50
ROC-2131-726	1/2-13	3 1/2	25
ROC-2131-728	1/2-13	4	25
ROC-2131-730	1/2-13	4 1/2	25
ROC-2131-732	1/2-13	5	25
ROC-2131-802	5/8-11	2	25
ROC-2131-804	5/8-11	2 1/2	25
ROC-2131-806	5/8-11	3	25

U-Bolts



Steel U-bolts made from carbon steel, zinc plated with steel nuts included. Stainless steel U-bolts made from 304 stainless with stainless nuts included. Rolled threads.

Steel Item No.	Stainless Item No.	A	Pipe Size	B	C	D	Pack Qty.
—	DUB-4010	1/4-20	3/8	3/4	1 1/4	5/8	1
DUB-070	—	1/4-20	1/2	1	1 3/4	1	1
—	DUB-4080	1/4-20	3/4	1 1/8	2	1	1
DUB-090	DUB-4090	1/4-20	1	1 1/2	2 3/4	1 1/8	1
—	DUB-4100	1/4-20	1 1/4	1 3/4	3	1 1/8	1
—	DUB-4110	1/4-20	1 1/2	2	3 1/4	1 1/8	1
DUB-200	DUB-4200	5/8-18	1	1 3/8	2 3/16	1	1
—	DUB-4220	5/8-18	1 1/4	1 3/4	2 11/16	1 1/8	1
DUB-240	DUB-4240	5/8-18	1 1/2	2	2 11/16	1	1
—	DUB-4270	5/8-18	2	2 1/2	3 3/8	1	1
DUB-303	—	3/8-16	1	1 1/2	2 1/2	1 1/4	1
DUB-304	—	3/8-16	1 1/2	2	2 5/8	1 1/4	1
—	DUB-4310	3/8-16	2	2 1/2	3 1/8	1 1/4	1
DUB-330	DUB-4320	3/8-16	2 1/2	3	3 5/8	1 1/4	1
—	—	3/8-16	3	3 1/2	4 1/8	1 1/4	1

Eye Bolts w/Nut



Forged steel eye bolts packed with hex nuts.

Item No.	Size	Overall Length	Pack Qty.
ROC-8346-013	1/4-20	3	100
ROC-8346-015	1/4-20	4	100
ROC-8346-016	1/4-20	5	50
ROC-8346-018	5/8-16	5 1/2	50

Elevator Bolts



Also known as belt bolts, elevator bolts have the largest diameter heads of all flush head

styles. They are ideal for industrial belting systems where head clearance must be at a minimum. Also used in heavy duty fleet applications for trailer doors, walls and floors.

Item No.	Thread	Length	Pack Qty.
ROC-2142-540	1/4-20	3/4	100
ROC-2142-542	1/4-20	1	100
ROC-2142-544	1/4-20	1 1/4	100
ROC-2142-546	1/4-20	1 1/2	100
ROC-2142-548	1/4-20	1 3/4	100
ROC-2142-550	1/4-20	2	100
ROC-2142-552	1/4-20	2 1/2	100
ROC-2142-554	1/4-20	3	100
ROC-2142-583	5/8-18	1	50
ROC-2142-585	5/8-18	1 1/4	50
ROC-2142-587	5/8-18	1 1/2	50
ROC-2142-589	5/8-18	1 3/4	50
ROC-2142-591	5/8-18	2	50
ROC-2142-593	5/8-18	2 1/2	50
ROC-2142-626	3/8-16	1 1/4	50
ROC-2142-628	3/8-16	1 1/2	50

Toggle Bolts Round Head



Spring wing toggle bolt. For use in hollow wall applications, drop ceilings, lighting fixtures, alarms, etc.

Item No.	Size	Length	Pack Qty.
ROC-8133-480	1/8	2	50
ROC-8133-482	1/8	3	50
ROC-8133-483	1/8	4	50
ROC-8133-516	3/16	2	50
ROC-8133-520	3/16	3	50
ROC-8133-524	3/16	4	50
ROC-8133-554	1/4	3	50
ROC-8133-558	1/4	4	50
ROC-8133-599	5/16	4	25
ROC-8133-636	3/8	3	25
ROC-8133-640	3/8	4	25
ROC-8133-728	1/2	4	25



SELF-DRILLING SCREWS

Buy One or Buy Bulk & SAVE

Self Drilling Screws Hex Washer Head Slotted



Zinc chromate. Fluted point. Used for fastening sheet metal to wood or metal. Drills, taps and fastens in one operation.

Item No.	Thread	Length	Pack Qty.
Coarse Thread - Standard Package			
ROC-5716-148	6-20	1/2	100
ROC-5716-151	6-20	3/4	100
ROC-5716-153	6-20	1	100
ROC-5716-194	8-18	3/4	100
ROC-5716-197	8-18	1	100
ROC-5716-199	8-18	1	100
ROC-5716-201	8-18	1 1/4	100
ROC-5716-203	8-18	1 1/2	100
ROC-5716-242	10-16	1/2	100
ROC-5716-244	10-16	5/8	100
ROC-5716-245	10-16	3/4	100
ROC-5716-247	10-16	1	100
ROC-5716-249	10-16	1 1/4	100
ROC-5716-251	10-16	1 1/2	100
ROC-5716-294	12-14	3/4	100
ROC-5716-296	12-14	1	100
ROC-5716-298	12-14	1 1/4	100
ROC-5716-299	12-14	1 1/2	100
ROC-5716-540	1/4-14	3/4	100
ROC-5716-542	1/4-14	1	100
ROC-5716-546	1/4-14	1 1/2	100
ROC-5716-550	1/4-14	2	100
Fine Thread - Standard Package			
ROC-5717-540	1/4-20	3/4	50
Coarse Thread - Contractor Package			
ROC-B5716-148	6-20	1/2	1000
ROC-B5716-194	8-18	1/2	1000
ROC-B5716-196	8-18	5/8	1000
ROC-B5716-197	8-18	3/4	1000
ROC-B5716-199	8-18	1	1000
ROC-B5716-244	10-16	5/8	1000
ROC-B5716-245	10-16	3/4	1000
ROC-B5716-247	10-16	1	1000
ROC-B5716-249	10-16	1 1/4	1000
ROC-B5716-251	10-16	1 1/2	500
ROC-B5716-294	12-14	3/4	500
ROC-B5716-296	12-14	1	500
ROC-B5716-540	1/4-14	3/4	500
ROC-B5716-542	1/4-14	1	500

Hex Washer Head Thread Cutting Zinc Plated Steel



Type "F" Point. Zinc plated. Used in hanging exhaust systems. Cuts its own thread, self-tapping.

Item No.	Thread	Length	Pack Qty.
ROC-2134-242	10-24	1/2	50
ROC-2134-245	10-24	3/4	50
ROC-2134-537	1/4-20	1/2	50
ROC-2134-540	1/4-20	3/4	50
ROC-2134-542	1/4-20	1	50
ROC-2134-581	3/16-18	3/4	50
ROC-2134-583	3/16-18	1	50
ROC-2134-622	3/8-16	3/4	50
ROC-2134-624	3/8-16	1	50

Self Drilling Screws Hex Head w/Washers



With bonded neoprene washer, flute point. Galvanized for corrosion resistance.

Item No.	Size	Length	Pack Qty.
Standard Package			
ROC-5816-244	10	5/8	100
ROC-5816-245	10	3/4	100
ROC-5816-294	12	3/4	100
ROC-5816-296	12	1	100
ROC-5816-299	12	1 1/2	100
ROC-5816-301	12	2	100
ROC-5816-540	1/4	3/4	100
ROC-5816-542	1/4	1	100
Contractor Package			
ROC-B5816-244	10	5/8	1,000
ROC-B5816-245	10	3/4	1,000
ROC-B5816-296	12	1	500
ROC-B5816-299	12	1 1/2	250
ROC-B5816-540	1/4	3/4	500
ROC-B5816-542	1/4	1	500

Hex Head Self-Piercing Screws



Hex washer head with extra sharp point. Zinc chromate plated.

Item No.	Size	Length	Pack Qty.
Standard Package			
ROC-6118-170	7	1/2	100
ROC-6118-194	8	1/2	100
ROC-6118-197	8	3/4	100
ROC-6118-199	8	1	100
ROC-6118-203	8	1 1/2	100
ROC-6118-242	10	1/2	100
ROC-6118-245	10	3/4	100
ROC-6118-247	10	1	100
Contractor Package			
ROC-B6118-170	7	1/2	500
ROC-B6118-194	8	1/2	500
ROC-B6118-197	8	3/4	500
ROC-B6118-199	8	1	500
ROC-B6118-203	8	1 1/2	500
ROC-B6118-242	10	1/2	500
ROC-B6118-245	10	3/4	500
ROC-B6118-247	10	1	500

Hex Head Slotted



These self-tapping fasteners form their own mating threads in predrilled holes in such thin material as sheet metal, plastics and thin-wall die castings. Require relatively low drive torque to create vibration-resistant joint. Zinc chromate finish. Meets or exceeds ASME/ANSI B18.6.4 and SAE J933 standards.

Item No.	Size	Length	Pack Qty.
Standard Package			
ROC-6117-146	6	3/8	100
ROC-6117-148	6	1/2	100
ROC-6117-151	6	3/4	100
ROC-6117-153	6	1	100
ROC-6117-155	6	1 1/4	100
ROC-6117-157	6	1 1/2	100
ROC-6117-170	7	1/2	100
ROC-6117-173	7	3/4	100
ROC-6117-192	8	3/8	100
ROC-6117-194	8	1/2	100
ROC-6117-196	8	5/8	100
ROC-6117-197	8	3/4	100
ROC-6117-198	8	7/8	100
ROC-6117-199	8	1	100
ROC-6117-201	8	1 1/4	100
ROC-6117-203	8	1 1/2	100
ROC-6117-205	8	2	100
ROC-6117-240	10	3/8	100
ROC-6117-242	10	1/2	100
ROC-6117-244	10	5/8	100
ROC-6117-245	10	3/4	100
ROC-6117-247	10	1	100
ROC-6117-249	10	1 1/4	100
ROC-6117-251	10	1 1/2	100
ROC-6117-253	10	2	100
ROC-6117-291	12	1/2	100
ROC-6117-294	12	3/4	100
ROC-6117-296	12	1	100
ROC-6117-298	12	1 1/4	100
ROC-6117-299	12	1 1/2	100
ROC-6117-301	12	2	100
ROC-6117-310	14	1/2	100
ROC-6117-312	14	5/8	100
ROC-6117-313	14	3/4	100
ROC-6117-315	14	1	100
ROC-6117-316	14	1 1/4	100
ROC-6117-317	14	1 1/2	100
ROC-6117-319	14	2	100
ROC-6117-581	3/16	3/4	100
ROC-6117-583	3/16	1	100
ROC-6117-587	3/16	1 1/2	100
ROC-6117-624	3/8	1	100
ROC-6117-628	3/8	1 1/2	100
Contractor Package			
ROC-B6117-146	6	3/8	1,000
ROC-B6117-148	6	1/2	1,000
ROC-B6117-151	6	3/4	1,000
ROC-B6117-153	6	1	1,000
ROC-B6117-194	8	1/2	500
ROC-B6117-197	8	3/4	500
ROC-B6117-199	8	1	500
ROC-B6117-205	8	2	250
ROC-B6117-242	10	1/2	500
ROC-B6117-245	10	3/4	500
ROC-B6117-247	10	1	250
ROC-B6117-249	10	1 1/4	250
ROC-B6117-251	10	1 1/2	250
ROC-B6117-253	10	2	250
ROC-B6117-296	12	1	250
ROC-B6117-313	14	3/4	250



These self-tapping fasteners form their own mating threads in predrilled holes in such thin material as sheet metal, plastics and thin-wall die castings. Require relatively low drive torque to create vibration-resistant joint. Zinc chromate finish. Meets or exceeds ASME/ANSI B18.6.4 and SAE J933 standards.

Oval Head Phillips



Item No.	Size	Length	Pack Qty.
ROC-6125-148	6	1/2	100
ROC-6125-150	6	5/8	100
ROC-6125-151	6	3/4	100
ROC-6125-153	6	1	100
ROC-6125-194	8	1/2	100
ROC-6125-197	8	3/4	100
ROC-6125-199	8	1	100
ROC-6125-201	8	1 1/4	100
ROC-6125-203	8	1 1/2	100
ROC-6125-242	10	1/2	100
ROC-6125-245	10	3/4	100
ROC-6125-247	10	1	100
ROC-6125-249	10	1 1/4	100
ROC-6125-251	10	1 1/2	100
ROC-6125-315	14	1	100

Flat Head Phillips



Item No.	Size	Length	Pack Qty.
ROC-6124-110	4	1/2	100
ROC-6124-112	4	5/8	100
ROC-6124-113	4	3/4	100
ROC-6124-115	4	1	100
ROC-6124-144	6	1/4	100
ROC-6124-146	6	3/8	100
ROC-6124-148	6	1/2	100
ROC-6124-150	6	5/8	100
ROC-6124-151	6	3/4	100
ROC-6124-153	6	1	100
ROC-6124-155	6	1 1/4	100
ROC-6124-157	6	1 1/2	100
ROC-6124-158	6	1 3/4	100
ROC-6124-194	8	1/2	100
ROC-6124-196	8	5/8	100
ROC-6124-197	8	3/4	100
ROC-6124-199	8	1	100
ROC-6124-201	8	1 1/4	100
ROC-6124-203	8	1 1/2	100
ROC-6124-204	8	1 3/4	100
ROC-6124-205	8	2	100
ROC-6124-207	8	2 1/2	100
ROC-6124-209	8	3	100
ROC-6124-242	10	1/2	100
ROC-6124-244	10	5/8	100
ROC-6124-245	10	3/4	100
ROC-6124-247	10	1	100
ROC-6124-249	10	1 1/4	100
ROC-6124-251	10	1 1/2	100
ROC-6124-253	10	2	100
ROC-6124-257	10	3	100
ROC-6124-294	12	3/4	100
ROC-6124-296	12	1	100
ROC-6124-298	12	1 1/4	100
ROC-6124-299	12	1 1/2	100
ROC-6124-301	12	2	100
ROC-6124-305	12	3	100
ROC-6124-313	14	3/4	100
ROC-6124-315	14	1	100
ROC-6124-316	14	1 1/4	100
ROC-6124-317	14	1 1/2	100
ROC-6124-318	14	1 3/4	100
ROC-6124-319	14	2	100

Self Drilling Screws

Pan Head Phillips



Zinc chromate. Fluted point. Used for fastening sheet metal to wood or metal. Drills, taps and fastens in one operation.

Item No.	Thread	Length	Pack Qty.
ROC-5726-146	6-20	3/8	100
ROC-5726-147	6-20	7/16	100
ROC-5726-148	6-20	1/2	100
ROC-5726-194	8-18	1/2	100
ROC-5726-197	8-18	3/4	100
ROC-5726-199	8-18	1	100
ROC-5726-203	8-18	1 1/2	100
ROC-5726-244	10-16	5/8	100
ROC-5726-245	10-16	3/4	100

Pan Head Combination



Can be used with either slotted or phillips screwdriver.

Item No.	Size	Length	Pack Qty.
ROC-6166-106	4	1/4	100
ROC-6166-108	4	3/8	100
ROC-6166-110	4	1/2	100
ROC-6166-112	4	5/8	100
ROC-6166-113	4	3/4	100
ROC-6166-115	4	1	100
ROC-6166-144	6	1/4	100
ROC-6166-146	6	3/8	100
ROC-6166-148	6	1/2	100
ROC-6166-150	6	5/8	100
ROC-6166-151	6	3/4	100
ROC-6166-153	6	1	100
ROC-6166-155	6	1 1/4	100
ROC-6166-157	6	1 1/2	100
ROC-6166-170	7	1/2	100
ROC-6166-192	8	3/8	100
ROC-6166-194	8	1/2	100
ROC-6166-196	8	5/8	100
ROC-6166-197	8	3/4	100
ROC-6166-199	8	1	100
ROC-6166-201	8	1 1/4	100
ROC-6166-203	8	1 1/2	100
ROC-6166-205	8	2	100
ROC-6166-240	10	3/8	100
ROC-6166-242	10	1/2	100

Item No.	Size	Length	Pack Qty.
ROC-6166-244	10	5/8	100
ROC-6166-245	10	3/4	100
ROC-6166-247	10	1	100
ROC-6166-249	10	1 1/4	100
ROC-6166-251	10	1 1/2	100
ROC-6166-252	10	1 3/4	100
ROC-6166-253	10	2	100
ROC-6166-255	10	2 1/2	100
ROC-6166-257	10	3	100
ROC-6166-291	12	1/2	100
ROC-6166-293	12	5/8	100
ROC-6166-294	12	3/4	100
ROC-6166-296	12	1	100
ROC-6166-298	12	1 1/4	100
ROC-6166-299	12	1 1/2	100
ROC-6166-301	12	2	100
ROC-6166-303	12	2 1/2	100
ROC-6166-305	12	3	100
ROC-6166-310	14	1/2	100
ROC-6166-312	14	5/8	100
ROC-6166-313	14	3/4	100
ROC-6166-315	14	1	100
ROC-6166-316	14	1 1/4	100
ROC-6166-317	14	1 1/2	100
ROC-6166-319	14	2	100

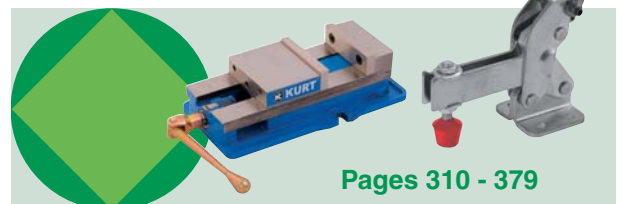
Pan Head Phillips



Item No.	Size	Length	Pack Qty.
ROC-6126-106	4	1/4	100
ROC-6126-108	4	3/8	100
ROC-6126-110	4	1/2	100
ROC-6126-113	4	3/4	100
ROC-6126-144	6	1/4	100
ROC-6126-146	6	3/8	100
ROC-6126-148	6	1/2	100
ROC-6126-150	6	5/8	100
ROC-6126-151	6	3/4	100
ROC-6126-152	6	7/8	100
ROC-6126-153	6	1	100
ROC-6126-155	6	1 1/4	100
ROC-6126-157	6	1 1/2	100
ROC-6126-170	7	1/2	100
ROC-6126-173	7	3/4	100
ROC-6126-175	7	1	100
ROC-6126-192	8	3/8	100
ROC-6126-194	8	1/2	100
ROC-6126-196	8	5/8	100
ROC-6126-197	8	3/4	100
ROC-6126-198	8	7/8	100
ROC-6126-199	8	1	100
ROC-6126-201	8	1 1/4	100
ROC-6126-203	8	1 1/2	100
ROC-6126-205	8	2	100
ROC-6126-207	8	2 1/2	100
ROC-6126-209	8	3	100
ROC-6126-240	10	3/8	100

Item No.	Size	Length	Pack Qty.
ROC-6126-242	10	1/2	100
ROC-6126-244	10	5/8	100
ROC-6126-245	10	3/4	100
ROC-6126-246	10	7/8	100
ROC-6126-247	10	1	100
ROC-6126-249	10	1 1/4	100
ROC-6126-251	10	1 1/2	100
ROC-6126-252	10	1 3/4	100
ROC-6126-253	10	2	100
ROC-6126-255	10	2 1/2	100
ROC-6126-257	10	3	100
ROC-6126-291	12	1/2	100
ROC-6126-293	12	5/8	100
ROC-6126-294	12	3/4	100
ROC-6126-295	12	7/8	100
ROC-6126-296	12	1	100
ROC-6126-298	12	1 1/4	100
ROC-6126-299	12	1 1/2	100
ROC-6126-301	12	2	100
ROC-6126-305	12	3	100
ROC-6126-310	14	1/2	100
ROC-6126-313	14	3/4	100
ROC-6126-314	14	7/8	100
ROC-6126-315	14	1	100
ROC-6126-316	14	1 1/4	100
ROC-6126-317	14	1 1/2	100
ROC-6126-319	14	2	100
ROC-6126-321	14	2 1/2	100

CLAMPS & WORKHOLDING



Pages 310 - 379



Flat, oval or pan head. Slotted or phillips drive. These 18-8 stainless steel sheet metal screws meet or exceed ASME/ANSI B18.2 and ASTM F788 standards.

Pan Head Slotted Stainless Steel



Table with 4 columns: Item No., Size, Length, Pack Qty. Lists various sizes and lengths of Pan Head Slotted screws.

Pan Head Phillips Stainless Steel



Table with 4 columns: Item No., Size, Length, Pack Qty. Lists various sizes and lengths of Pan Head Phillips screws.

Flat Head Slotted Stainless Steel



Table with 4 columns: Item No., Size, Length, Pack Qty. Lists various sizes and lengths of Flat Head Slotted screws.

Flat Head Phillips Stainless Steel



Table with 4 columns: Item No., Size, Length, Pack Qty. Lists various sizes and lengths of Flat Head Phillips screws.

Oval Head Phillips Stainless Steel



Table with 4 columns: Item No., Size, Length, Pack Qty. Lists various sizes and lengths of Oval Head Phillips screws.

Advertisement for ACCESS HARDWARE featuring images of various hardware components and the text 'Pages 120 - 185'.



Wedge Anchor with Nuts and Washers



A medium to heavy expansion anchor. Use in concrete assemblies, heavy machinery, conveyor systems, handrails. Bull nose fully threaded.

Item No.	Size	Length	Pack Qty.
ROC-8101-548	1/4	1 1/4	100
ROC-8101-551	1/4	2 1/4	100
ROC-8101-555	1/4	3 1/4	100
ROC-8101-633	3/8	2 1/4	50
ROC-8101-635	3/8	2 3/4	50
ROC-8101-639	3/8	3 3/4	50
ROC-8101-644	3/8	5	50
ROC-8101-723	1/2	2 3/4	25
ROC-8101-727	1/2	3 3/4	50
ROC-8101-734	1/2	5 1/2	25
ROC-8101-808	3/8	3 1/2	25

Lag Shields



For use with large screws in concrete and masonry applications. Alloy steel. SHORT TYPE - Use in hard masonry, such as concrete to minimize drilling time. LONG TYPE - Use in soft or weak masonry to develop the full strength of the masonry.

Item No.	Size	Pack Qty.
Short Type		
ROC-8087-029	1/4	50
ROC-8087-030	5/16	50
ROC-8087-031	3/8	50
ROC-8087-033	1/2	25
ROC-8087-035	5/8	25
Long Type		
ROC-8088-029	1/4	50
ROC-8088-030	5/16	50
ROC-8088-031	3/8	50
ROC-8088-033	1/2	25
ROC-8088-035	5/8	25

Masonry Screws



Hardened steel. Includes carbide tipped drill bit.

Item No.	Size	Length	Pack Qty.
Flat Head			
ROC-8426-512	3/16	1 1/4	100
ROC-8426-515	3/16	1 3/4	100
ROC-8426-517	3/16	2 1/4	100
ROC-8426-519	3/16	2 3/4	100
ROC-8426-521	3/16	3 1/4	100
ROC-8426-523	3/16	3 3/4	100
ROC-8426-524	3/16	4	100
ROC-8426-544	1/4	1 1/4	100
ROC-8426-548	1/4	1 3/4	100
ROC-8426-551	1/4	2 1/4	100
ROC-8426-553	1/4	2 3/4	100
ROC-8426-555	1/4	3 1/4	100
ROC-8426-558	1/4	4	100
Hex Washer			
ROC-8427-512	3/16	1 1/4	100
ROC-8427-515	3/16	1 3/4	100
ROC-8427-517	3/16	2 1/4	100
ROC-8427-519	3/16	2 3/4	100
ROC-8427-521	3/16	3 1/4	100
ROC-8427-523	3/16	3 3/4	100
ROC-8427-524	3/16	4	100
ROC-8427-544	1/4	1 1/4	100
ROC-8427-548	1/4	1 3/4	100
ROC-8427-551	1/4	2 1/4	100
ROC-8427-553	1/4	2 3/4	100
ROC-8427-555	1/4	3 1/4	100
ROC-8427-557	1/4	3 3/4	100
ROC-8427-558	1/4	4	100

Drywall Anchors



This wedge type anchor is a self-drilling hollow wall anchor.

Item No.	Material	Pack Qty.
ROC-8363-001	Plastic	50
ROC-8363-003	Metal	50

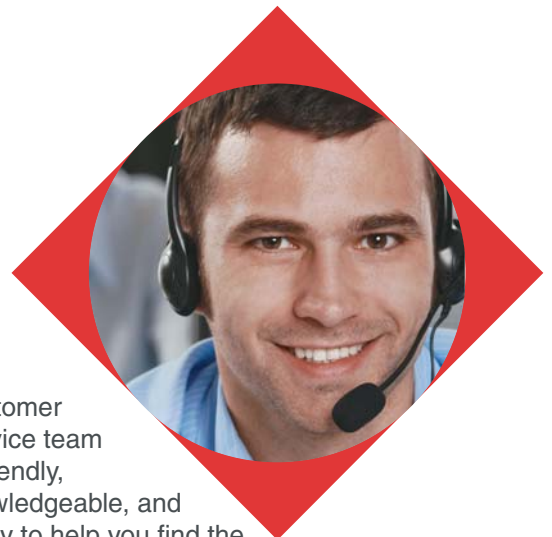
Hex Head Lag Screws



60 degree gimlet point. Meets or exceeds ANSI/ASME B18.2.1 standards.

Item No.	Size	Length	Pack Qty.
ROC-5400-542	1/4	1	100
ROC-5400-544	1/4	1 1/4	100
ROC-5400-546	1/4	1 1/2	100
ROC-5400-548	1/4	1 3/4	100
ROC-5400-550	1/4	2	100
ROC-5400-552	1/4	2 1/2	100
ROC-5400-554	1/4	3	100
ROC-5400-556	1/4	3 1/2	100
ROC-5400-558	1/4	4	100
ROC-5400-560	1/4	4 1/2	100
ROC-5400-562	1/4	5	100
ROC-5400-566	1/4	6	100
ROC-5400-583	5/16	1	100
ROC-5400-585	5/16	1 1/4	100
ROC-5400-587	5/16	1 1/2	100
ROC-5400-589	5/16	1 3/4	100
ROC-5400-591	5/16	2	100
ROC-5400-593	5/16	2 1/2	100
ROC-5400-595	5/16	3	100
ROC-5400-597	5/16	3 1/2	50
ROC-5400-599	5/16	4	50
ROC-5400-601	5/16	4 1/2	50
ROC-5400-603	5/16	5	50
ROC-5400-607	5/16	6	50
ROC-5400-624	3/8	1	100
ROC-5400-626	3/8	1 1/4	100
ROC-5400-628	3/8	1 1/2	100
ROC-5400-630	3/8	1 3/4	100
ROC-5400-632	3/8	2	100
ROC-5400-634	3/8	2 1/2	50
ROC-5400-636	3/8	3	50
ROC-5400-638	3/8	3 1/2	50
ROC-5400-640	3/8	4	50
ROC-5400-642	3/8	4 1/2	50
ROC-5400-644	3/8	5	50
ROC-5400-646	3/8	5 1/2	50
ROC-5400-648	3/8	6	50
ROC-5400-652	3/8	8	50
ROC-5400-716	1/2	1 1/2	50
ROC-5400-720	1/2	2	50
ROC-5400-722	1/2	2 1/2	50
ROC-5400-724	1/2	3	50
ROC-5400-726	1/2	3 1/2	25
ROC-5400-728	1/2	4	25
ROC-5400-730	1/2	4 1/2	25
ROC-5400-732	1/2	5	25

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Our Customer Service team is friendly, knowledgeable, and ready to help you find the right product for your application.



**Fine Threads
Inch**



Made from high quality low carbon steel. Fine threads available plain oil finish only.

Item No.	Size	Pack Qty.
TR-57	10-32	1
TR-77	¼-28	1
TR-87	⅝-24	1
TR-97	¾-24	1
TR-117	½-20	1

**Fully Threaded Studs
Steel and Stainless Steel**



Made of low carbon steel and 18-8 stainless steel.

Steel	Stainless	Thread	Length	Pack Qty.
AMS-169	AMS-269	4-40	¾	1
AMS-170	AMS-270	4-40	1	1
AMS-171	AMS-271	4-40	1½	1
AMS-172	AMS-272	4-40	2	1
AMS-173	AMS-273	4-40	2½	1
AMS-174	AMS-274	6-32	¾	1
AMS-175	AMS-275	6-32	1	1
AMS-176	AMS-276	6-32	1½	1
AMS-177	AMS-277	6-32	2	1
AMS-178	AMS-278	6-32	2½	1
AMS-179	—	6-32	3	1
AMS-180	AMS-280	8-32	¾	1
AMS-181	AMS-281	8-32	1	1
AMS-182	AMS-282	8-32	1½	1
AMS-183	AMS-283	8-32	2	1
AMS-184	AMS-284	8-32	2½	1
AMS-185	AMS-285	8-32	3	1
AMS-186	—	8-32	4	1
AMS-187	AMS-287	10-24	¾	1
AMS-188	AMS-288	10-24	1	1
AMS-189	AMS-289	10-24	1½	1
AMS-190	AMS-290	10-24	2	1
AMS-191	AMS-291	10-24	2½	1
AMS-192	AMS-292	10-24	3	1
AMS-193	AMS-293	10-24	4	1
AMS-194	AMS-294	10-32	¾	1
AMS-195	AMS-295	10-32	1	1
AMS-196	AMS-296	10-32	1½	1
AMS-197	AMS-297	10-32	2	1
AMS-198	AMS-298	10-32	2½	1
AMS-199	—	10-32	3	1
AMS-200	—	10-32	4	1
AMS-201	AMS-301	¼-20	1	1
AMS-401	AMS-701	¼-20	1¼	1
AMS-202	AMS-302	¼-20	1½	1
AMS-203	AMS-303	¼-20	2	1
AMS-403	AMS-703	¼-20	1¾	1
AMS-204	AMS-304	¼-20	2½	1
AMS-205	AMS-305	¼-20	3	1
AMS-405	AMS-705	¼-20	2¼	1
AMS-206	AMS-306	¼-20	3½	1
AMS-207	AMS-307	¼-20	4	1
AMS-208	—	¼-20	5	1

Steel	Stainless	Thread	Length	Pack Qty.
AMS-209	—	¼-20	5½	1
AMS-210	—	¼-20	6	1
AMS-410	AMS-710	¼-20	4½	1
AMS-211	AMS-311	⅝-18	1	1
AMS-212	AMS-312	⅝-18	1¼	1
AMS-213	AMS-313	⅝-18	1½	1
AMS-214	AMS-314	⅝-18	2	1
AMS-215	—	⅝-18	2¼	1
AMS-216	AMS-316	⅝-18	2½	1
AMS-416	AMS-716	⅝-18	1¾	1
AMS-217	AMS-317	⅝-18	3	1
AMS-218	—	⅝-18	3½	1
AMS-219	—	⅝-18	4	1
AMS-220	—	⅝-18	4½	1
AMS-221	—	⅝-18	5	1
AMS-222	—	⅝-18	6	1
AMS-223	AMS-323	⅝-16	1	1
AMS-224	AMS-324	⅝-16	1¼	1
AMS-225	AMS-325	⅝-16	1½	1
AMS-226	AMS-326	⅝-16	1¾	1
AMS-227	AMS-327	⅝-16	2	1
AMS-228	AMS-328	⅝-16	2¼	1
AMS-229	AMS-329	⅝-16	2½	1
AMS-230	AMS-330	⅝-16	3	1
AMS-231	AMS-331	⅝-16	3½	1
AMS-232	AMS-332	⅝-16	4	1
AMS-233	AMS-333	⅝-16	4½	1
AMS-234	AMS-334	⅝-16	5	1
AMS-235	—	⅝-16	5½	1
AMS-236	AMS-336	⅝-16	6	1
AMS-237	—	½-13	1¼	1
AMS-238	AMS-338	½-13	1½	1
AMS-239	—	½-13	1¾	1
AMS-240	AMS-340	½-13	2	1
AMS-444	AMS-744	½-13	2¼	1
AMS-241	AMS-341	½-13	2½	1
AMS-242	AMS-342	½-13	3	1
AMS-447	AMS-747	½-13	3½	1
AMS-243	—	½-13	4	1
AMS-449	AMS-749	½-13	4½	1
AMS-244	—	½-13	5	1
AMS-245	—	½-13	6	1

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Flat Head Slotted



General-purpose screws with plain sheared points for use in tapped holes or with nuts. UNC-USS coarse thread and UNF-SAE fine thread. Zinc chromate finish. Meets or exceeds SAE J82 standards. Length is measured from the top of the thread on flat head.

Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3104-106	4-40	1/4	100
ROC-3104-108	4-40	3/8	100
ROC-3104-110	4-40	1/2	100
ROC-3104-113	4-40	3/4	100
ROC-3104-115	4-40	1	100
ROC-3104-144	6-32	1/4	100
ROC-3104-146	6-32	3/8	100
ROC-3104-148	6-32	1/2	100
ROC-3104-151	6-32	3/4	100
ROC-3104-152	6-32	7/8	100
ROC-3104-153	6-32	1	100
ROC-3104-155	6-32	1 1/4	100
ROC-3104-157	6-32	1 1/2	100
ROC-3104-158	6-32	1 3/4	100
ROC-3104-159	6-32	2	100
ROC-3104-190	8-32	1/4	100
ROC-3104-192	8-32	3/8	100
ROC-3104-194	8-32	1/2	100
ROC-3104-197	8-32	3/4	100
ROC-3104-199	8-32	1	100
ROC-3104-201	8-32	1 1/4	100
ROC-3104-203	8-32	1 1/2	100
ROC-3104-205	8-32	2	100
ROC-3104-209	8-32	3	100
ROC-3104-238	10-24	1/4	100
ROC-3104-240	10-24	3/8	100
ROC-3104-242	10-24	1/2	100
ROC-3104-244	10-24	5/8	100
ROC-3104-245	10-24	3/4	100
ROC-3104-247	10-24	1	100
ROC-3104-249	10-24	1 1/4	100

Item No.	Thread	Length	Pack Qty.
ROC-3104-251	10-24	1 1/2	100
ROC-3104-252	10-24	1 3/4	100
ROC-3104-253	10-24	2	100
ROC-3104-254	10-24	2 1/4	100
ROC-3104-256	10-24	2 3/4	100
ROC-3104-259	10-24	3 1/2	100
ROC-3104-291	12-24	1/2	100
ROC-3104-294	12-24	3/4	100
ROC-3104-296	12-24	1	100
ROC-3104-299	12-24	1 1/2	100
ROC-3104-535	1/4-20	3/8	100
ROC-3104-537	1/4-20	1/2	100
ROC-3104-539	1/4-20	5/8	100
ROC-3104-540	1/4-20	3/4	100
ROC-3104-542	1/4-20	1	100
ROC-3104-544	1/4-20	1 1/4	100
ROC-3104-546	1/4-20	1 1/2	100
ROC-3104-550	1/4-20	2	100
ROC-3104-551	1/4-20	2 1/4	100
ROC-3104-552	1/4-20	2 1/2	100
ROC-3104-554	1/4-20	3	100
ROC-3104-556	1/4-20	3 1/2	100
ROC-3104-558	1/4-20	4	100
ROC-3104-578	3/16-18	1/2	100
ROC-3104-581	3/16-18	3/4	100
ROC-3104-583	3/16-18	1	100
ROC-3104-587	3/16-18	1 1/2	100
ROC-3104-591	3/16-18	2	100
ROC-3104-624	3/8-16	1	100
ROC-3104-626	3/8-16	1 1/4	100
ROC-3104-628	3/8-16	1 1/2	100

MORE FASTENERS



Plastic Bolts & Screws
Pages 784 - 788



Panel Screws
Page 789



Thumb Screws
Pages 790 - 791,
794 - 796



Shoulder Screws
Pages 792 - 793



Nuts
Pages 808 - 815

Plus, **free CAD drawings** available online.





General-purpose screws with plain sheared points for use in tapped holes or with nuts. UNC-USS coarse thread and UNF-SAE fine thread. Zinc chromate finish. Meets or exceeds SAE J82 standards. Length is measured from the top of the thread on flat head.

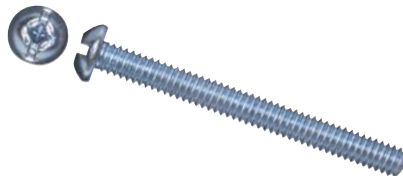
Round Head Slotted



Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3103-106	4-40	¼	100
ROC-3103-108	4-40	⅜	100
ROC-3103-110	4-40	½	100
ROC-3103-112	4-40	⅝	100
ROC-3103-113	4-40	¾	100
ROC-3103-115	4-40	1	100
ROC-3103-119	4-40	1½	100
ROC-3103-128	5-40	½	100
ROC-3103-131	5-40	¾	100
ROC-3103-133	5-40	1	100
ROC-3103-144	6-32	¼	100
ROC-3103-146	6-32	⅜	100
ROC-3103-148	6-32	½	100
ROC-3103-150	6-32	⅝	100
ROC-3103-151	6-32	¾	100
ROC-3103-152	6-32	⅞	100
ROC-3103-153	6-32	1	100
ROC-3103-155	6-32	1¼	100
ROC-3103-157	6-32	1½	100
ROC-3103-158	6-32	1¾	100
ROC-3103-159	6-32	2	100
ROC-3103-161	6-32	2½	100
ROC-3103-163	6-32	3	100
ROC-3103-190	8-32	¼	100
ROC-3103-191	8-32	⅜	100
ROC-3103-192	8-32	½	100
ROC-3103-194	8-32	⅝	100
ROC-3103-196	8-32	¾	100
ROC-3103-197	8-32	¾	100
ROC-3103-199	8-32	1	100
ROC-3103-201	8-32	1¼	100
ROC-3103-203	8-32	1½	100
ROC-3103-204	8-32	1¾	100
ROC-3103-205	8-32	2	100
ROC-3103-207	8-32	2½	100
ROC-3103-209	8-32	3	100
ROC-3103-241	10-24	⅞	100
ROC-3103-242	10-24	1	100
ROC-3103-244	10-24	⅝	100
ROC-3103-245	10-24	¾	100
ROC-3103-247	10-24	1	100
ROC-3103-249	10-24	1¼	100

Item No.	Thread	Length	Pack Qty.
ROC-3103-251	10-24	1½	100
ROC-3103-252	10-24	1¾	100
ROC-3103-253	10-24	2	100
ROC-3103-255	10-24	2½	100
ROC-3103-257	10-24	3	100
ROC-3103-261	10-24	4	100
ROC-3103-291	12-24	½	100
ROC-3103-294	12-24	¾	100
ROC-3103-296	12-24	1	100
ROC-3103-299	12-24	1½	100
ROC-3103-301	12-24	2	100
ROC-3103-303	12-24	2½	100
ROC-3103-535	¼-20	¾	100
ROC-3103-537	¼-20	1	100
ROC-3103-539	¼-20	¾	100
ROC-3103-540	¼-20	¾	100
ROC-3103-542	¼-20	1	100
ROC-3103-544	¼-20	1¼	100
ROC-3103-546	¼-20	1½	100
ROC-3103-548	¼-20	1¾	100
ROC-3103-550	¼-20	2	100
ROC-3103-551	¼-20	2¼	100
ROC-3103-552	¼-20	2½	100
ROC-3103-554	¼-20	3	100
ROC-3103-556	¼-20	3½	100
ROC-3103-558	¼-20	4	100
ROC-3103-581	⅝-18	¾	100
ROC-3103-583	⅝-18	1	100
ROC-3103-591	⅝-18	2	100
ROC-3103-592	⅝-18	2¼	100
ROC-3103-624	⅝-16	1	100
Fine Thread			
ROC-3203-238	10-32	¼	100
ROC-3203-240	10-32	⅜	100
ROC-3203-242	10-32	½	100
ROC-3203-244	10-32	⅝	100
ROC-3203-245	10-32	¾	100
ROC-3203-247	10-32	1	100
ROC-3203-249	10-32	1¼	100
ROC-3203-251	10-32	1½	100
ROC-3203-253	10-32	2	100
ROC-3203-546	¼-28	1½	100

Round Head Combination



Can be used with either a slotted or phillips screwdriver.

Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3166-146	6-32	⅜	100
ROC-3166-148	6-32	½	100
ROC-3166-151	6-32	¾	100
ROC-3166-153	6-32	1	100
ROC-3166-155	6-32	1¼	100
ROC-3166-157	6-32	1½	100
ROC-3166-159	6-32	2	100
ROC-3166-192	8-32	¾	100
ROC-3166-194	8-32	1	100
ROC-3166-197	8-32	¾	100
ROC-3166-199	8-32	1	100
ROC-3166-201	8-32	1¼	100
ROC-3166-203	8-32	1½	100
ROC-3166-205	8-32	2	100
ROC-3166-207	8-32	2½	100
ROC-3166-209	8-32	3	100
ROC-3166-240	10-24	¾	100
ROC-3166-242	10-24	1	100
ROC-3166-245	10-24	¾	100
ROC-3166-247	10-24	1	100
ROC-3166-249	10-24	1¼	100

Item No.	Thread	Length	Pack Qty.
ROC-3166-251	10-24	1½	100
ROC-3166-253	10-24	2	100
ROC-3166-255	10-24	2½	100
ROC-3166-535	¼-20	¾	100
ROC-3166-537	¼-20	1	100
ROC-3166-539	¼-20	¾	100
ROC-3166-540	¼-20	¾	100
ROC-3166-542	¼-20	1	100
ROC-3166-544	¼-20	1¼	100
ROC-3166-546	¼-20	1½	100
ROC-3166-550	¼-20	2	100
ROC-3166-551	¼-20	2¼	100
ROC-3166-552	¼-20	2½	100
Fine Thread			
ROC-3266-240	10-32	¾	100
ROC-3266-242	10-32	1	100
ROC-3266-245	10-32	¾	100
ROC-3266-247	10-32	1	100
ROC-3266-249	10-32	1¼	100
ROC-3266-251	10-32	1½	100
ROC-3266-253	10-32	2	100

STAINLESS STEEL MACHINE SCREWS



Round Head Slotted



Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3003-106	4-40	1/4	100
ROC-3003-108	4-40	3/8	100
ROC-3003-110	4-40	1/2	100
ROC-3003-144	6-32	1/4	100
ROC-3003-146	6-32	3/8	100
ROC-3003-148	6-32	1/2	100
ROC-3003-151	6-32	3/4	100
ROC-3003-153	6-32	1	100
ROC-3003-190	8-32	1/4	100
ROC-3003-192	8-32	3/8	100
ROC-3003-194	8-32	1/2	100
ROC-3003-197	8-32	3/4	100
ROC-3003-199	8-32	1	100
ROC-3003-201	8-32	1 1/4	100
ROC-3003-203	8-32	1 1/2	100
ROC-3003-242	10-24	1/2	100
ROC-3003-245	10-24	3/4	100
ROC-3003-247	10-24	1	100
ROC-3003-249	10-24	1 1/4	100
ROC-3003-251	10-24	1 1/2	100
ROC-3003-253	10-24	2	100
ROC-3003-537	1/4-20	1/2	100
ROC-3003-540	1/4-20	3/4	100
ROC-3003-542	1/4-20	1	100
ROC-3003-544	1/4-20	1 1/4	100
ROC-3003-546	1/4-20	1 1/2	100
ROC-3003-550	1/4-20	2	100
ROC-3003-552	1/4-20	2 1/2	50
ROC-3003-554	1/4-20	3	50
Fine Thread			
ROC-3013-242	10-32	1/2	100
ROC-3013-245	10-32	3/4	100
ROC-3013-247	10-32	1	100
ROC-3013-249	10-32	1 1/4	100
ROC-3013-251	10-32	1 1/2	100
ROC-3013-253	10-32	2	100

Round Head Phillips



Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3023-148	6-32	1/2	100
ROC-3023-151	6-32	3/4	100
ROC-3023-153	6-32	1	100
ROC-3023-157	6-32	1 1/2	100
ROC-3023-194	8-32	1/2	100
ROC-3023-197	8-32	3/4	100
ROC-3023-199	8-32	1	100
ROC-3023-201	8-32	1 1/4	100
ROC-3023-203	8-32	1 1/2	100
ROC-3023-204	8-32	1 3/4	100
ROC-3023-205	8-32	2	100
ROC-3023-242	10-24	1/2	100
ROC-3023-245	10-24	3/4	100
ROC-3023-247	10-24	1	100
ROC-3023-249	10-24	1 1/4	100
ROC-3023-251	10-24	1 1/2	100
ROC-3023-252	10-24	1 3/4	100
ROC-3023-253	10-24	2	100
ROC-3023-540	1/4-20	3/4	100
ROC-3023-542	1/4-20	1	100
ROC-3023-546	1/4-20	1 1/2	100

Flat Head Phillips



Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3024-146	6-32	3/8	100
ROC-3024-148	6-32	1/2	100
ROC-3024-151	6-32	3/4	100
ROC-3024-153	6-32	1	100
ROC-3024-155	6-32	1 1/4	100
ROC-3024-192	8-32	3/8	100
ROC-3024-194	8-32	1/2	100
ROC-3024-197	8-32	3/4	100
ROC-3024-199	8-32	1	100
ROC-3024-201	8-32	1 1/4	100
ROC-3024-203	8-32	1 1/2	100
ROC-3024-242	10-24	1/2	100
ROC-3024-245	10-24	3/4	100
ROC-3024-247	10-24	1	100
ROC-3024-249	10-24	1 1/4	100
ROC-3024-251	10-24	1 1/2	100
ROC-3024-253	10-24	2	100
ROC-3024-537	1/4-20	1/2	100
ROC-3024-540	1/4-20	3/4	100
ROC-3024-542	1/4-20	1	100
ROC-3024-544	1/4-20	1 1/4	100
ROC-3024-546	1/4-20	1 1/2	100
ROC-3024-550	1/4-20	2	100
ROC-3024-552	1/4-20	2 1/2	50
ROC-3024-554	1/4-20	3	50

Oval Head Slotted



Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3005-146	6-32	3/8	100
ROC-3005-148	6-32	1/2	100
ROC-3005-151	6-32	3/4	100
ROC-3005-153	6-32	1	100
ROC-3005-155	6-32	1 1/4	100
ROC-3005-194	8-32	1/2	100
ROC-3005-197	8-32	3/4	100
ROC-3005-199	8-32	1	100
ROC-3005-203	8-32	1 1/2	100
ROC-3005-242	10-24	1/2	100
ROC-3005-245	10-24	3/4	100
ROC-3005-247	10-24	1	100
ROC-3005-249	10-24	1 1/4	100
ROC-3005-251	10-24	1 1/2	100
ROC-3005-253	10-24	2	100
ROC-3005-537	1/4-20	1/2	100
ROC-3005-540	1/4-20	3/4	100
ROC-3005-542	1/4-20	1	100
ROC-3005-544	1/4-20	1 1/4	100
ROC-3005-546	1/4-20	1 1/2	100
ROC-3005-550	1/4-20	2	100
ROC-3005-552	1/4-20	2 1/2	50
ROC-3005-554	1/4-20	3	50
Fine Thread			
ROC-3015-242	10-32	1/2	100
ROC-3015-245	10-32	3/4	100
ROC-3015-247	10-32	1	100
ROC-3015-249	10-32	1 1/4	100
ROC-3015-251	10-32	1 1/2	100
ROC-3015-253	10-32	2	100

Oval Head Phillips



Item No.	Thread	Length	Pack Qty.
Coarse Thread			
ROC-3026-146	6-32	3/8	100
ROC-3026-148	6-32	1/2	100
ROC-3026-151	6-32	3/4	100
ROC-3026-153	6-32	1	100
ROC-3026-155	6-32	1 1/4	100
ROC-3026-157	6-32	1 1/2	100
ROC-3026-194	8-32	1/2	100
ROC-3026-197	8-32	3/4	100
ROC-3026-199	8-32	1	100
ROC-3026-201	8-32	1 1/4	100
ROC-3026-203	8-32	1 1/2	100
ROC-3026-205	8-32	2	100
ROC-3026-242	10-24	1/2	100
ROC-3026-245	10-24	3/4	100
ROC-3026-247	10-24	1	100
ROC-3026-249	10-24	1 1/4	100
ROC-3026-251	10-24	1 1/2	100
ROC-3026-253	10-24	2	100
ROC-3026-540	1/4-20	3/4	100
ROC-3026-542	1/4-20	1	100
ROC-3026-544	1/4-20	1 1/4	100
ROC-3026-546	1/4-20	1 1/2	100
ROC-3026-550	1/4-20	2	100
ROC-3026-552	1/4-20	2 1/2	50
ROC-3026-554	1/4-20	3	50
Fine Thread			
ROC-3036-242	10-32	1/2	100
ROC-3036-245	10-32	3/4	100
ROC-3036-247	10-32	1	100
ROC-3036-249	10-32	1 1/4	100
ROC-3036-251	10-32	1 1/2	100

WASHERS

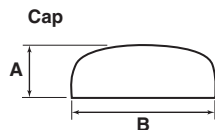
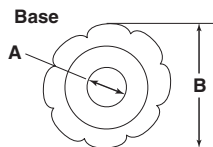


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POB & POC Series
Decorative Screw Covers



BASE (POB) Specifications:

- Material: Polypropylene
- Color: Natural

CAPS (POC) Specifications:

- Material: Polypropylene
- Color: White and Black

Features:

- An attractive solution to cover screws
- Caps and bases sold separately
- Special colors available – consult factory

Base

Item No.	Screw Bases For	A	B	Covers Screw Size	Pack Qty.
POB100A	#4 Pan	0.120	0.415	0.115	500
POB125A	#6 Pan	0.151	0.415	0.115	500
POB150A	#4/#6 Countersunk	0.151	0.415	0.115	500
POB200A	#8 Pan	0.176	0.500	0.125	500
POB225A	#10 Pan	0.195	0.500	0.125	500
POB250A	#8/#10 Countersunk	0.195	0.500	0.125	500
POB300A	1/4"-20 Pan	0.245	0.620	0.125	500
POB350A	1/4"-20 Countersunk	0.245	0.620	0.13	500

POB bases must be paired with corresponding POC caps for assembly.

Cap

Item No.		A	B	Covers Screw Size	Pack Qty.
Matte White	Matte Black				
POC100MA	POC100MB	0.200	0.500	#4 & #6	500
POC200MA	POC200MB	0.260	0.630	#8 & #10	500
POC300MA	POC300MB	0.260	0.700	1/4"-20	500

POB bases must be paired with corresponding POC caps for assembly.

SCC Series
Secure Cover Caps



Specifications:

- Material: Polypropylene
- Color: Refer to Chart

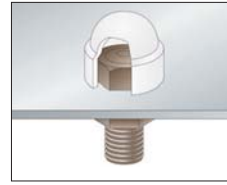
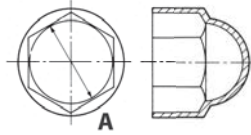
Features:

- To cover bolt head or nut depending on application
- Cap design snaps securely into base
- Able to mix or match colors for the cap and the base
- Ideal for outdoor furniture or playground equipment

Item No.												To Fit Bolt & Nut		D	H	Pack Qty.
White		Black		Red		Blue		Green		Yellow		Standard	Metric	In	In	
Cap	Base	Cap	Base	Cap	Base	Cap	Base	Cap	Base	Cap	Base					
SCC003W	SCB003W	SCC003B	SCB003B	SCC003R	SCB003R	SCC003BL	SCB003BL	SCC003G	SCB003G	SCC003Y	SCB003Y	-	M6	0.984	0.472	250
SCC005W	SCB005W	SCC005B	SCB005B	SCC005R	SCB005R	SCC005BL	SCB005BL	SCC005G	SCB005G	SCC005Y	SCB005Y	5/16	M8	1.260	0.551	250
SCC010W	SCB010W	SCC010B	SCB010B	SCC010R	SCB010R	SCC010BL	SCB010BL	SCC010G	SCB010G	SCC010Y	SCB010Y	3/8	M10	1.496	0.669	100
SCC015W	SCB015W	SCC015B	SCB015B	SCC015R	SCB015R	SCC015BL	SCB015BL	SCC015G	SCB015G	SCC015Y	SCB015Y	7/16	M12	1.693	0.807	100



**BNC Series
Bolt & Nut Caps**



Specifications:

- Material: LDPE with UV Stabilizer
- Color: Black & White

Features:

- Protects against weathering and tampering
- Enhances finished appearance

Item No.	Color	To Fit Bolt Size	Head Size (A)		Pack Qty.
			In	mm	
BNC0189A	BNC0189B	#10	0.306	7.77	1,000
BNC0250A	BNC0250B	1/4"	0.425	10.80	5,000
BNC0312A	BNC0312B	5/16"	0.484	12.29	1,000
BNC0375A	BNC0375B	3/8"	0.550	13.97	1,000
BNC0437A	BNC0437B	7/16"	0.622	15.80	2,500
BNC0500A	BNC0500B	1/2"	0.740	18.80	2,000
BNC0625A	BNC0625B	5/8"	0.937	23.80	1,000
BNC05A	BNC05B	5mm	0.311	7.90	5,000

Item No.	Color	To Fit Bolt Size	Head Size (A)		Pack Qty.
			In	mm	
BNC06A	BNC06B	6mm	0.386	9.80	5,000
BNC08A	BNC08B	8mm	0.504	12.80	5,000
BNC10A	BNC10B	10mm	0.661	16.79	2,500
BNC14A	BNC14B	14mm	0.858	21.79	1,200
BNC18A	BNC18B	18mm	1.055	26.80	1,500
BNC20A	BNC20B	20mm	1.173	29.79	1,200
BNC22A	BNC22B	22mm	1.252	31.80	800
BNC24A	BNC24B	24mm	1.406	35.71	500

**HBG Series
Ohio Nut & Bolt Caps**



Item No.	Head O.D.		Head Thickness		Pack Qty.
	In	mm	In	mm	
HBG1000A	0.562	14.27	0.093	2.37	7000
HBG1010A	0.750	19.05	0.093	2.37	5000

Specifications:

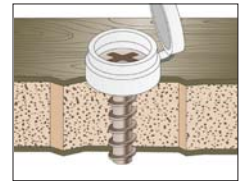
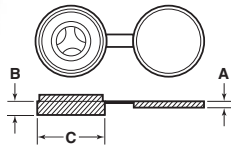
- Material: Elastomeric Polyethylene
- Color: Gray

Features:

- Low-Cost alternative to adjustable swivel glides
- Used in conjunction with Ohio Nut and Bolt parts, capping the head of the bolt with a non-skid, non-marking elastomeric cap

Item No.	Head O.D.		Head Thickness		Pack Qty.
	In	mm	In	mm	
HBG1020A	0.875	22.13	0.125	3.18	3800
HBG1030A	1.062	27.00	0.156	3.96	2200

**USC Series
Screw Caps**



Specifications:

- Material: Polypropylene
- Color: White

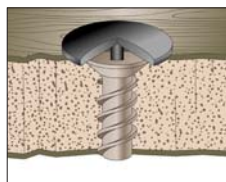
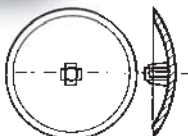
Features:

- The USC series fits a range of screw sizes, reducing the need to inventory a wide variety of caps
- Each cap will take a No. 6, 8 or 10 flat head, and an oval head or No. 6 round head screw

Item No.	Color	To Fit Screw Size	A		B		C		Pack Qty.
			In	mm	In	mm	In	mm	
USC0406A	White	#4 to 6	0.060	1.52	0.130	3.30	0.462	11.73	1,000
USC0406B	Black	#4 to 6	0.060	1.52	0.130	3.30	0.462	11.73	1,000
USC6810A	White	6 to 12 & M4/M5	0.114	2.90	0.254	3.91	0.539	13.69	5,000
USC6810C	Black	6 to 12 & M4/M5	0.114	2.90	0.254	3.91	0.539	13.69	5,000

Item No.	Color	To Fit Screw Size	A		B		C		Pack Qty.
			In	mm	In	mm	In	mm	
USC464219A	White	1/4	0.114	2.90	0.197	5.00	0.689	17.50	5,000
USC464220A	Black	1/4	0.114	2.90	0.197	5.00	0.689	17.50	5,000
USC3800A	White	3/8	0.114	2.90	0.326	8.28	0.950	24.13	1,000
USC3800B	Black	3/8	0.114	2.90	0.326	8.28	0.950	24.13	1,000

**CH Series
Cross Head Screw Caps**



Specifications:

- Material: LDPE
- Color: White

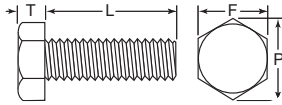
Features:

- Provides excellent concealment and protection of cross-head screws

Item No.	Total Diameter In	To Fit Drive Size	Pack Qty.
CH2A	0.570	#2	20,000
CH3A	0.575	#3	20,000
CH4A	0.705	#4	10,000



SXH/SXHM Series Hex Head Bolts



Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

SXH Series

Item No.	Thread	L In	Pack Qty.
SXH1060A	2-56	1/2	1,000
SXH1100A	2-56	1	1,000
SXH1130A	4-40	1/4	1,000
SXH1170A	4-40	1/2	1,000
SXH1220A	4-40	1	1,000
SXH1260A	6-32	5/16	1,000
SXH1360A	6-32	1 1/4	1,000
SXH1390A	8-32	1/4	1,000
SXH1410A	8-32	3/8	1,000
SXH1460A	8-32	3/4	1,000
SXH1480A	8-32	1	1,000
SXH1550A	10-32	1/4	1,000
SXH1570A	10-32	3/8	1,000
SXH1640A	10-32	1	1,000
SXH1660A	10-32	1 1/4	1,000
SXH1700A	1/4-20	1/4	1,000
SXH1710A	1/4-20	1/2	1,000

Item No.	Thread	L In	Pack Qty.
SXH1720A	1/4-20	3/4	1,000
SXH1730A	1/4-20	1	1,000
SXH1740A	1/4-20	1 1/4	1,000
SXH1750A	1/4-20	1 1/2	1,000
SXH1770A	1/4-20	2	1,000
SXH1790A	5/16-18	1/2	1,000
SXH1810A	5/16-18	1	1,000
SXH1820A	5/16-18	1 1/4	1,000
SXH1830A	5/16-18	1 1/2	1,000
SXH1850A	5/16-18	2	1,000
SXH1870A	3/8-16	1/2	500
SXH1880A	3/8-16	3/4	500
SXH1890A	3/8-16	1	500
SXH1900A	3/8-16	1 1/4	500
SXH1910A	3/8-16	1 1/2	500
SXH1930A	3/8-16	2	500

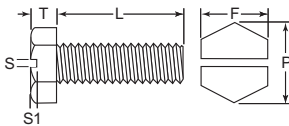
Thread	F (In)	P (In)	T (In)
2-56	1/8	0.134/0.149	0.040/0.050
4-40	3/16	0.202/0.217	0.049/0.060
6-32	1/4	0.272/0.287	0.080/0.093
8-32	1/4	0.272/0.287	0.096/0.110
10-32	5/16	0.340/0.355	0.105/0.120
1/4-20	3/8	0.411/0.425	0.150/0.188
5/16-18	1/2	0.567/0.581	0.206/0.217
3/8-16	9/16	0.631/0.645	0.227/0.241
M2	3.02/3.20	3.38 min.	1.3/1.6
M2.5	3.82/4.00	4.28 min.	1.8/2.1
M3	4.82/5.00	5.40 min.	2.0/2.3
M3.5	5.32/5.50	5.96 min.	2.3/2.6
M4	6.78/7.00	7.59 min.	2.6/3.0
M5	7.78/8.00	8.71 min.	3.3/3.8
M6	9.78/10.00	10.95 min.	4.1/4.7
M8	12.73/13.00	14.26 min.	5.2/6.0
M10	15.73/16.00	17.62 min.	6.5/7.5
M12	17.73/18.00	19.86 min.	7.8/9.0

SXHM Series Metric

Item No.	Thread	L mm	Pack Qty.
SXHM2L12A	M2 X 0.4	12	1,000
SXHM2.5L12A	M2.5 X 0.45	12	1,000
SXHM3L6A	M3 X 0.5	6	1,000
SXHM3L12A	M3 X 0.5	12	1,000
SXHM3L30A	M3 X 0.5	30	1,000
SXHM3.5L12A	M3.5 X 0.6	12	1,000
SXHM4L10A	M4 X 0.7	10	1,000
SXHM4L16A	M4 X 0.7	16	1,000
SXHM5L10A	M5 X 0.8	10	1,000
SXHM5L16A	M5 X 0.8	16	1,000
SXHM5L20A	M5 X 0.8	20	1,000
SXHM5L30A	M5 X 0.8	30	1,000
SXHM6L12A	M6 X 1.0	12	1,000
SXHM6L16A	M6 X 1.0	16	1,000

Item No.	Thread	L mm	Pack Qty.
SXHM6L20A	M6 X 1.0	20	1,000
SXHM6L25A	M6 X 1.0	25	1,000
SXHM6L30A	M6 X 1.0	30	1,000
SXHM6L40A	M6 X 1.0	40	1,000
SXHM8L16A	M8 X 1.25	16	1,000
SXHM8L20A	M8 X 1.25	20	1,000
SXHM8L25A	M8 X 1.25	25	1,000
SXHM8L30A	M8 X 1.25	30	1,000
SXHM8L35A	M8 X 1.25	35	1,000
SXHM8L50A	M8 X 1.25	50	1,000
SXHM10L25A	M10 X 1.5	25	1,000
SXHM10L50A	M10 X 1.5	50	1,000
SXHM12L20A	M12 X 1.75	20	1,000
SXHM12L40A	M12 X 1.75	40	1,000

SXS Series Hex With Slotted Head Bolts



Thread	F (In)	P (In)	T (In)	S (In)	S1 (In)
2-56	1/8	0.134/0.149	0.040/0.050	0.023/0.031	0.022/0.031
4-40	3/16	0.202/0.217	0.049/0.060	0.031/0.039	0.025/0.036
6-32	1/4	0.272/0.287	0.080/0.093	0.039/0.048	0.033/0.046
8-32	1/4	0.272/0.287	0.096/0.110	0.045/0.054	0.052/0.066
10-32	5/16	0.340/0.355	0.105/0.120	0.050/0.060	0.057/0.072
1/4-20	3/8	0.049/0.424	0.172/0.190	0.056/0.063	0.083/0.101
5/16-18	1/2	0.545/0.560	0.208/0.230	0.064/0.072	0.100/0.122
3/8-16	9/16	0.614/0.629	0.270/0.295	0.070/0.078	0.131/0.156

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	L In	Pack Qty.
SXS1000A	2-56	1/8	1,000
SXS1130A	4-40	1/4	1,000
SXS1170A	4-40	1/2	1,000
SXS1220A	4-40	1	1,000
SXS1270A	6-32	3/8	1,000
SXS1320A	6-32	3/4	1,000
SXS1340A	6-32	1	1,000
SXS1430A	8-32	1/2	1,000
SXS1480A	8-32	1	1,000
SXS1530A	8-32	2	1,000
SXS1590A	10-32	1/2	1,000
SXS1640A	10-32	1	1,000

Item No.	Thread	L In	Pack Qty.
SXS1690A	10-32	2	1,000
SXS1710A	1/4-20	1/2	1,000
SXS1730A	1/4-20	1	1,000
SXS1770A	1/4-20	1 3/4	1,000
SXS1780A	1/4-20	2	1,000
SXS1800A	5/16-18	1/2	1,000
SXS1820A	5/16-18	1	1,000
SXS1860A	5/16-18	2	1,000
SXS1880A	3/8-16	1/2	500
SXS1900A	3/8-16	1	500
SXS1930A	3/8-16	1 3/4	500



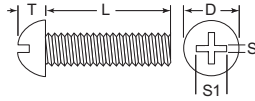
Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

SRX Series
Round Phillips Head Screws

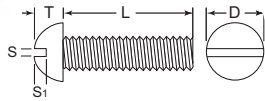


Thread	D (In)	T (In)	S (In)	S1 (In)
6-32	0.240/0.260	0.091/0.103	0.034/0.049	0.156/0.169
8-32	0.287/0.309	0.107/0.120	0.039/0.054	0.187/0.201
10-32	0.334/0.359	0.123/0.137	0.043/0.058	0.198/0.212

Item No.	Thread	L In	Pack Qty.
SRX1020A	6-32	1/4	1,000
SRX1060A	6-32	1/2	1,000
SRX1110A	6-32	1	1,000
SRX1200A	8-32	1/2	1,000
SRX1250A	8-32	1	1,000

Item No.	Thread	L In	Pack Qty.
SRX1320A	10-32	1/4	1,000
SRX1360A	10-32	1/2	1,000
SRX1410A	10-32	1	1,000
SRX1460A	10-32	2	1,000

SRS Series
Round Slotted Head Screws

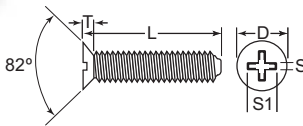


Thread	D (In)	T (In)	S (In)	S1 (In)
2-56	0.146/0.162	0.059/0.069	0.023/0.031	0.037/0.048
4-40	0.193/0.211	0.075/0.086	0.031/0.039	0.044/0.058
6-32	0.240/0.260	0.091/0.103	0.030/0.044	0.051/0.068
8-32	0.287/0.309	0.107/0.120	0.045/0.054	0.058/0.077
10-32	0.334/0.359	0.123/0.137	0.050/0.060	0.065/0.087
1/4-20	0.451/0.465	0.168/0.182	0.057/0.071	0.083/0.097

Item No.	Thread	L In	Pack Qty.
SRS1020A	2-56	1/4	1,000
SRS1060A	2-56	1/2	1,000
SRS1130A	4-40	1/4	1,000
SRS1150A	4-40	3/8	1,000
SRS1170A	4-40	1/2	1,000
SRS1220A	4-40	1	1,000
SRS1250A	6-32	1/4	1,000
SRS1270A	6-32	3/8	1,000
SRS1290A	6-32	1/2	1,000
SRS1340A	6-32	1	1,000
SRS1420A	8-32	3/8	1,000
SRS1440A	8-32	1/2	1,000

Item No.	Thread	L In	Pack Qty.
SRS1490A	8-32	1	1,000
SRS1540A	8-32	2	1,000
SRS1600A	10-32	1/2	1,000
SRS1630A	10-32	3/4	1,000
SRS1650A	10-32	1	1,000
SRS1700A	10-32	2	1,000
SRS1710A	1/4-20	1/4	1,000
SRS1720A	1/4-20	1/2	1,000
SRS1730A	1/4-20	3/4	1,000
SRS1740A	1/4-20	1	1,000
SRS1760A	1/4-20	1 1/2	1,000

SCX Series
82° Counter Sunk Phillips Head Screws

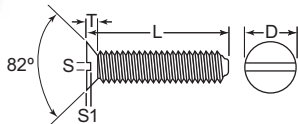


Thread	D (In)	T (In)	S (In)	S1 (In)
4-40	0.195/0.225	0.075/0.088	0.032/0.047	0.145/0.157
6-32	0.244/0.279	0.098/0.113	0.038/0.053	0.180/0.195
8-32	0.292/0.332	0.117/0.132	0.043/0.058	0.216/0.232
10-32	0.340/0.385	0.126/0.140	0.048/0.063	0.223/0.237
1/4-20	0.452/0.507	0.156/0.204	0.061/0.076	0.334/0.355

Item No.	Thread	L In	Pack Qty.
SCX1010A	4-40	1/4	1,000
SCX1020A	4-40	5/16	1,000
SCX1030A	4-40	3/8	1,000
SCX1040A	4-40	1/2	1,000
SCX1000A	4-40	3/16	1,000
SCX1100A	6-32	1/4	1,000
SCX1120A	6-32	3/8	1,000

Item No.	Thread	L In	Pack Qty.
SCX1130A	6-32	1/2	1,000
SCX1170A	6-32	1	1,000
SCX1220A	8-32	3/8	1,000
SCX1230A	8-32	1/2	1,000
SCX1250A	8-32	3/4	1,000
SCX1420A	1/4-20	3/4	1,000
SCX1430A	1/4-20	1	1,000

SCS Series
82° Counter Sunk Slotted Head Screws



Thread	D (In)	T (In)	S (In)	S1 (In)
2-56	0.147/0.172	0.044/0.058	0.023/0.031	0.015/0.023
4-40	0.195/0.225	0.060/0.074	0.031/0.039	0.020/0.030
6-32	0.244/0.279	0.076/0.090	0.039/0.048	0.024/0.038
8-32	0.292/0.332	0.090/0.110	0.045/0.054	0.029/0.045
10-32	0.340/0.385	0.108/0.122	0.050/0.060	0.034/0.053
1/4-20	0.452/0.507	0.143/0.163	0.064/0.075	0.046/0.070

Item No.	Thread	L In	Pack Qty.
SCS1010A	2-56	3/16	1,000
SCS1020A	2-56	1/4	1,000
SCS1050A	2-56	1/2	1,000
SCS1070A	4-40	3/16	1,000
SCS1080A	4-40	1/4	1,000
SCS1090A	4-40	5/16	1,000
SCS1100A	4-40	3/8	1,000
SCS1110A	4-40	1/2	1,000
SCS1140A	4-40	7/8	1,000
SCS1150A	4-40	1	1,000
SCS1170A	6-32	1/4	1,000
SCS1180A	6-32	5/16	1,000
SCS1190A	6-32	3/8	1,000

Item No.	Thread	L In	Pack Qty.
SCS1200A	6-32	1/2	1,000
SCS1240A	6-32	1	1,000
SCS1260A	6-32	2	1,000
SCS1290A	8-32	3/8	1,000
SCS1300A	8-32	1/2	1,000
SCS1320A	8-32	3/4	1,000
SCS1340A	8-32	1	1,000
SCS1380A	10-32	1/2	1,000
SCS1420A	10-32	1	1,000
SCS1480A	1/4-20	1/2	1,000
SCS1490A	1/4-20	3/4	1,000
SCS1500A	1/4-20	1	1,000
SCS1510A	1/4-20	1 1/2	1,000



Specifications:

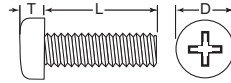
- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

SPX/NSP Series

Pan Phillips Head Screws

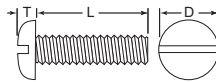
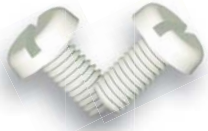


Item No.	Thread	L in	L mm	T in	T mm	D in	D mm	Pack Qty.
SPX1010A	#2-56	0.188	4.775	0.058	1.473	0.168	4.267	1,000
SPX1020A	#2-56	0.250	6.350	0.058	1.473	0.168	4.267	1,000
SPX1060A	#2-56	0.500	12.700	0.058	1.473	0.168	4.267	1,000
SPX1090A	#2-56	0.750	19.050	0.058	1.473	0.168	4.267	1,000
SPX1100A	#2-56	1.000	25.400	0.058	1.473	0.168	4.267	1,000
NSP-4-2-01	#4-40	0.125	3.175	0.080	2.032	0.210	5.334	1,000
NSP-4-3-01	#4-40	0.188	4.775	0.080	2.032	0.210	5.334	1,000
NSP-4-4-01	#4-40	0.250	6.350	0.080	2.032	0.210	5.334	1,000
NSP-4-5-01	#4-40	0.313	7.950	0.080	2.032	0.210	5.334	1,000
NSP-4-6-01	#4-40	0.375	9.525	0.080	2.032	0.210	5.334	1,000
NSP-4-7-01	#4-40	0.438	11.125	0.080	2.032	0.210	5.334	1,000
NSP-4-8-01	#4-40	0.500	12.700	0.080	2.032	0.210	5.334	1,000
NSP-4-10-01	#4-40	0.625	15.875	0.080	2.032	0.210	5.334	1,000
NSP-4-12-01	#4-40	0.750	19.050	0.080	2.032	0.210	5.334	1,000
NSP-4-14-01	#4-40	0.875	22.225	0.080	2.032	0.210	5.334	1,000
NSP-4-16-01	#4-40	1.000	25.400	0.080	2.032	0.210	5.334	1,000
NSP-6-2-01	#6-32	0.125	3.175	0.090	2.286	0.260	6.604	1,000
NSP-6-3-01	#6-32	0.188	4.775	0.090	2.286	0.260	6.604	1,000
NSP-6-4-01	#6-32	0.250	6.350	0.090	2.286	0.260	6.604	1,000
NSP-6-5-01	#6-32	0.313	7.950	0.090	2.286	0.260	6.604	1,000
NSP-6-6-01	#6-32	0.375	9.525	0.090	2.286	0.260	6.604	1,000
NSP-6-7-01	#6-32	0.438	11.125	0.090	2.286	0.260	6.604	1,000

Item No.	Thread	L in	L mm	T in	T mm	D in	D mm	Pack Qty.
NSP-6-8-01	#6-32	0.500	12.700	0.090	2.286	0.260	6.604	1,000
NSP-6-10-01	#6-32	0.625	15.875	0.090	2.286	0.260	6.604	1,000
NSP-6-12-01	#6-32	0.750	19.050	0.090	2.286	0.260	6.604	1,000
NSP-6-14-01	#6-32	0.875	22.225	0.090	2.286	0.260	6.604	1,000
NSP-6-16-01	#6-32	1.000	25.400	0.090	2.286	0.260	6.604	1,000
SPX1380A	#6-32	1.500	38.100	0.077	1.956	0.266	6.502	1,000
NSP-8-2-01	#8-32	0.125	3.175	0.110	2.794	0.320	8.128	1,000
NSP-8-3-01	#8-32	0.188	4.775	0.110	2.794	0.320	8.128	1,000
NSP-8-4-01	#8-32	0.250	6.350	0.110	2.794	0.320	8.128	1,000
NSP-8-5-01	#8-32	0.313	7.950	0.110	2.794	0.320	8.128	1,000
NSP-8-6-01	#8-32	0.375	9.525	0.110	2.794	0.320	8.128	1,000
NSP-8-7-01	#8-32	0.438	11.125	0.110	2.794	0.320	8.128	1,000
NSP-8-8-01	#8-32	0.500	12.700	0.110	2.794	0.320	8.128	1,000
NSP-8-10-01	#8-32	0.625	15.875	0.110	2.794	0.320	8.128	1,000
NSP-8-12-01	#8-32	0.750	19.050	0.110	2.794	0.320	8.128	1,000
NSP-8-14-01	#8-32	0.875	22.225	0.110	2.794	0.320	8.128	1,000
NSP-8-16-01	#8-32	1.000	25.400	0.110	2.794	0.320	8.128	1,000
SPX1520A	#8-32	1.500	38.100	0.120	3.048	0.314	7.976	1,000
SPX1600A	#10-32	0.625	15.875	0.127	3.226	0.365	9.271	1,000
SPX1650A	#10-32	1.000	25.400	0.127	3.226	0.365	9.271	1,000
SPX1720A	1/4-20	0.500	12.700	0.171	4.343	0.483	12.268	1,000
SPX1740A	1/4-20	1.000	25.400	0.171	4.343	0.483	12.268	1,000

SPS/NSS Series

Pan Slotted Head Screws

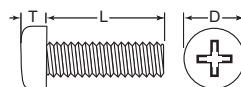


Item No.	Thread	L in	L mm	T in	T mm	D in	D mm	Pack Qty.
SPS1010A	#2-56	0.188	4.775	0.058	1.473	0.168	4.267	1,000
SPS1020A	#2-56	0.250	6.350	0.058	1.473	0.168	4.267	1,000
SPS1040A	#2-56	0.375	9.525	0.058	1.473	0.168	4.267	1,000
SPS1060A	#2-56	0.500	12.700	0.058	1.473	0.168	4.267	1,000
SPS1100A	#2-56	1.000	25.400	0.058	1.473	0.168	4.267	1,000
NSS-4-2-01	#4-40	0.125	3.175	0.080	2.032	0.210	5.334	1,000
NSS-4-3-01	#4-40	0.188	4.775	0.080	2.032	0.210	5.334	1,000
NSS-4-4-01	#4-40	0.250	6.350	0.080	2.032	0.210	5.334	1,000
NSS-4-5-01	#4-40	0.313	7.950	0.080	2.032	0.210	5.334	1,000
NSS-4-6-01	#4-40	0.375	9.525	0.080	2.032	0.210	5.334	1,000
NSS-4-7-01	#4-40	0.438	11.125	0.080	2.032	0.210	5.334	1,000
NSS-4-8-01	#4-40	0.500	12.700	0.080	2.032	0.210	5.334	1,000
SPS1180A	#4-40	0.563	14.300	0.065	1.651	0.212	5.385	1,000
NSS-4-10-01	#4-40	0.625	15.875	0.080	2.032	0.210	5.334	1,000
NSS-4-12-01	#4-40	0.750	19.050	0.080	2.032	0.210	5.334	1,000
NSS-4-14-01	#4-40	0.875	22.225	0.080	2.032	0.210	5.334	1,000
NSS-4-16-01	#4-40	1.000	25.400	0.080	2.032	0.210	5.334	1,000
NSS-6-2-01	#6-32	0.125	3.175	0.090	2.286	0.260	6.604	1,000
NSS-6-3-01	#6-32	0.188	4.775	0.090	2.286	0.260	6.604	1,000
NSS-6-4-01	#6-32	0.250	6.350	0.090	2.286	0.260	6.604	1,000
NSS-6-5-01	#6-32	0.313	7.950	0.090	2.286	0.260	6.604	1,000
NSS-6-6-01	#6-32	0.375	9.525	0.090	2.286	0.260	6.604	1,000
NSS-6-7-01	#6-32	0.438	11.125	0.090	2.286	0.260	6.604	1,000
NSS-6-8-01	#6-32	0.500	12.700	0.090	2.286	0.260	6.604	1,000
NSS-6-10-01	#6-32	0.625	15.875	0.090	2.286	0.260	6.604	1,000
NSS-6-12-01	#6-32	0.750	19.050	0.090	2.286	0.260	6.604	1,000
NSS-6-14-01	#6-32	0.875	22.225	0.090	2.286	0.260	6.604	1,000
NSS-6-16-01	#6-32	1.000	25.400	0.090	2.286	0.260	6.604	1,000
NSS-8-2-01	#8-32	0.125	3.175	0.110	2.794	0.320	8.128	1,000

Item No.	Thread	L in	L mm	T in	T mm	D in	D mm	Pack Qty.
NSS-8-3-01	#8-32	0.188	4.775	0.110	2.794	0.320	8.128	1,000
NSS-8-4-01	#8-32	0.250	6.350	0.110	2.794	0.320	8.128	1,000
NSS-8-5-01	#8-32	0.313	7.950	0.110	2.794	0.320	8.128	1,000
NSS-8-6-01	#8-32	0.375	9.525	0.110	2.794	0.320	8.128	1,000
NSS-8-7-01	#8-32	0.438	11.125	0.110	2.794	0.320	8.128	1,000
NSS-8-8-01	#8-32	0.500	12.700	0.110	2.794	0.320	8.128	1,000
NSS-8-10-01	#8-32	0.625	15.875	0.110	2.794	0.320	8.128	1,000
NSS-8-12-01	#8-32	0.750	19.050	0.110	2.794	0.320	8.128	1,000
NSS-8-14-01	#8-32	0.875	22.225	0.110	2.794	0.320	8.128	1,000
NSS-8-16-01	#8-32	1.000	25.400	0.110	2.794	0.320	8.128	1,000
SPS1570A	#8-32	2.000	50.800	0.120	3.048	0.314	7.976	1,000
SPS1640A	#10-32	0.500	12.700	0.127	3.226	0.365	9.271	1,000
SPS1690A	#10-32	1.000	25.400	0.127	3.226	0.365	9.271	1,000
SPS1740A	#10-32	2.000	50.800	0.171	4.343	0.483	12.268	1,000
SPS1750A	1/4-20	0.250	6.350	0.171	4.343	0.483	12.268	1,000
SPS1770A	1/4-20	0.500	12.700	0.171	4.343	0.483	12.268	1,000
SPS1780A	1/4-20	0.750	19.050	0.171	4.343	0.483	12.268	1,000
SPS1790A	1/4-20	1.000	25.400	0.171	4.343	0.483	12.268	1,000
SPS1810A	1/4-20	1.500	38.100	0.171	4.343	0.483	12.268	1,000
SPS1820A	1/4-20	1.750	44.450	0.171	4.343	0.483	12.268	1,000
SPS1830A	1/4-20	2.000	50.800	0.171	4.343	0.483	12.268	1,000
SPS1850A	5/16-18	0.500	12.700	0.221	5.613	0.605	15.367	1,000
SPS1870A	5/16-18	1.000	25.400	0.221	5.613	0.605	15.367	1,000
SPS1910A	5/16-18	2.000	50.800	0.221	5.613	0.605	15.367	1,000
SPS1920A	3/8-16	0.250	6.350	0.280	7.112	0.728	18.491	500
SPS1930A	3/8-16	0.500	12.700	0.280	7.112	0.728	18.491	500
SPS1950A	3/8-16	1.000	25.400	0.280	7.112	0.728	18.491	500
SPS1990A	3/8-16	2.000	50.800	0.280	7.112	0.728	18.491	500

SPXM/NMS Series

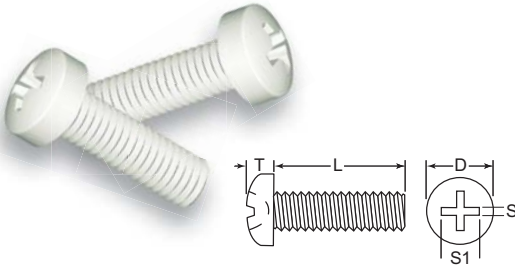
Metric Pan Phillips Head Screws



Item No.	Thread	L in	L mm	T in	T mm	D in	D mm	Pack Qty.
SPXM3L6A	M3	0.236	6.000	0.091	2.300	0.213	5.400	1,000
NMS-306	M3	0.252	6.400	0.098	2.500	0.224	5.700	1,000
NMS-308	M3	0.315	8.000	0.098	2.500	0.224	5.700	1,000
SPXM3L10A	M3	0.394	10.000	0.091	2.300	0.213	5.400	1,000
NMS-312	M3	0.476	12.100	0.098	2.500	0.224	5.700	1,000
SPXM3L16A	M3	0.630	16.000	0.091	2.300	0.213	5.400	1,000
SPXM3L25A	M3	0.984	25.000	0.091	2.300	0.213	5.400	1,000
SPXM4L6A	M4	0.236	6.000	0.114	2.900	0.315	8.000	1,000
NMS-408	M4	0.315	8.000	0.110	2.800	0.291	7.400	1,000
SPXM4L10A	M4	0.394	10.000	0.114	2.900	0.315	8.000	1,000
SPXM4L16A	M4	0.630	16.000	0.114	2.900			



SBX Series
Binder Phillips Head Screws



Thread	D (In)	T (In)	S (In)	S1 (In)
4-40	0.223/0.235	0.061/0.068	0.032/0.049	0.133/0.147
6-32	0.275/0.290	0.078/0.087	0.039/0.054	0.176/0.190
8-32	0.326/0.344	0.095/0.105	0.044/0.058	0.209/0.224
1/4-20	0.498/0.525	0.175/0.183	0.059/0.074	0.311/0.329
3/8-16	0.746/0.788	0.231/0.245	0.076/0.096	0.450/0.480

Specifications:

- Material: Nylon 6/6
- Color: Natural

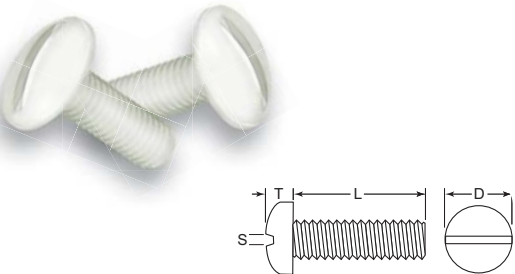
Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	L In	Pack Qty.
SBX1010A	4-40	3/16	1,000
SBX1020A	4-40	1/4	1,000
SBX1060A	4-40	1/2	1,000
SBX1110A	4-40	1	1,000
SBX1120A	6-32	1/8	1,000

Item No.	Thread	L In	Pack Qty.
SBX1210A	6-32	3/4	1,000
SBX1350A	8-32	3/4	1,000
SBX1420A	8-32	2	1,000
SBX1660A	1/4-20	2	1,000
SBX1760A	3/8-16	1/2	500

SBS Series
Binder Slotted Head Screws



Thread	D (In)	T (In)	S (In)
2-56	0.171/0.181	0.043/0.050	0.023/0.031
4-40	0.223/0.235	0.061/0.068	0.031/0.039
6-32	0.275/0.290	0.078/0.087	0.039/0.048
8-32	0.326/0.344	0.095/0.105	0.045/0.054
10-32	0.378/0.399	0.112/0.123	0.050/0.060
1/4-20	0.498/0.525	0.175/0.183	0.053/0.067
5/16-18	0.610/0.644	0.204/0.209	0.059/0.067
3/8-16	0.746/0.788	0.231/0.245	0.068/0.085

Specifications:

- Material: Nylon 6/6
- Color: Natural

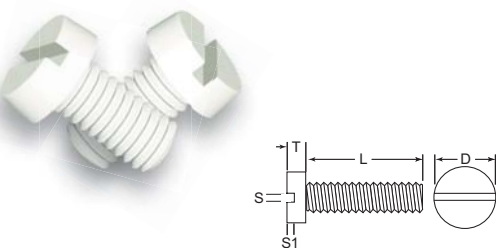
Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	L In	Pack Qty.
SBS1040A	2-56	3/8	1,000
SBS1090A	2-56	3/4	1,000
SBS1120A	4-40	3/16	1,000
SBS1130A	4-40	1/4	1,000
SBS1150A	4-40	3/8	1,000
SBS1170A	4-40	1/2	1,000
SBS1190A	4-40	5/8	1,000
SBS1200A	4-40	3/4	1,000
SBS1220A	4-40	1	1,000
SBS1260A	6-32	1/4	1,000
SBS1280A	6-32	3/8	1,000
SBS1300A	6-32	1/2	1,000
SBS1350A	8-32	1	1,000
SBS1400A	8-32	1/4	1,000
SBS1440A	8-32	1/2	1,000

Item No.	Thread	L In	Pack Qty.
SBS1490A	8-32	1	1,000
SBS1540A	8-32	2	1,000
SBS1580A	10-32	3/8	1,000
SBS1650A	10-32	1	1,000
SBS1700A	10-32	2	1,000
SBS1710A	1/4-20	1/4	1,000
SBS1720A	1/4-20	1/2	1,000
SBS1740A	1/4-20	1	1,000
SBS1760A	1/4-20	1 1/2	1,000
SBS1800A	5/16-18	1/2	1,000
SBS1820A	5/16-18	1	1,000
SBS1860A	5/16-18	2	1,000
SBS1880A	3/8-16	1/2	500
SBS1900A	3/8-16	1	500
SBS1940A	3/8-16	2	500

SCSM Series
Metric Cheese Slotted Head Bolts



Thread	D (mm)	T (mm)	S (mm)	S1 (mm)
M2	3.8	1.3	0.7	0.9
M2.5	4.5	1.6	0.8	1
M3	5.5	2	1	1.3
M3.5	6	2.4	1.1	1.4
M4	7	2.6	1.2	1.6
M5	8.5	3.3	1.5	2
M6	10	3.9	1.9	2.3
M8	13	5	2.3	2.8
M10	15.63	6	2.8	3.2

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	L mm	Pack Qty.
SCSM2L6A	M2 X 0.4	6	1,000
SCSM2.5L6A	M2.5 X 0.45	6	1,000
SCSM2.5L16A	M2.5 X 0.45	16	1,000
SCSM3L6A	M3 X 0.5	6	1,000
SCSM3L8A	M3 X 0.5	8	1,000
SCSM3L10A	M3 X 0.5	10	1,000
SCSM3L12A	M3 X 0.5	12	1,000
SCSM3L16A	M3 X 0.5	16	1,000
SCSM3L20A	M3 X 0.5	20	1,000
SCSM3.5L10A	M3.5 X 0.6	10	1,000
SCSM4L6A	M4 X 0.7	6	1,000
SCSM4L8A	M4 X 0.7	8	1,000
SCSM4L10A	M4 X 0.7	10	1,000
SCSM4L12A	M4 X 0.7	12	1,000

Item No.	Thread	L mm	Pack Qty.
SCSM4L16A	M4 X 0.7	16	1,000
SCSM4L20A	M4 X 0.7	20	1,000
SCSM4L30A	M4 X 0.7	30	1,000
SCSM5L10A	M5 X 0.8	10	1,000
SCSM5L16A	M5 X 0.8	16	1,000
SCSM5L25A	M5 X 0.8	25	1,000
SCSM6L12A	M6 X 1.0	12	1,000
SCSM6L16A	M6 X 1.0	16	1,000
SCSM6L30A	M6 X 1.0	30	1,000
SCSM8L10A	M8 X 1.25	10	1,000
SCSM8L25A	M8 X 1.25	25	1,000
SCSM10L25A	M10 X 1.5	25	1,000
SCSM10L30A	M10 X 1.5	30	1,000



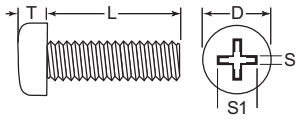
Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

SFX Series
Fillister Phillips Head Screws

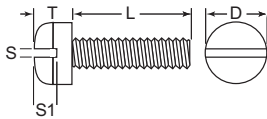
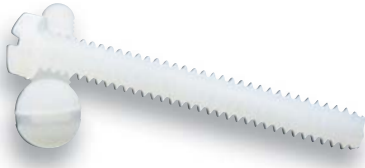


Thread	D (In)	T (In)	S (In)	S1 (In)
1/4-20	0.389/0.414	0.201/0.209	0.054/0.069	0.201/0.209
5/16-18	0.490/0.518	0.238/0.246	0.066/0.081	0.238/0.246
3/8-16	0.590/0.622	0.286/0.305	0.070/0.092	0.86/0.305

Item No.	Thread	L In	Pack Qty.
SFX1010A	1/4-20	1/2	1,000
SFX1030A	1/4-20	1	1,000
SFX1070A	1/4-20	2	1,000
SFX1090A	5/16-18	1/2	1,000
SFX1110A	5/16-18	1	1,000

Item No.	Thread	L In	Pack Qty.
SFX1150A	5/16-18	2	1,000
SFX1170A	3/8-16	1/2	1,000
SFX1190A	3/8-16	1	500
SFX1230A	3/8-16	2	500

SFS Series
Fillister Slotted Head Screws

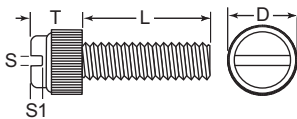


Thread	D (In)	T (In)	S (In)	S1 (In)
2-56	0.124/0.140	0.066/0.083	0.023/0.031	0.025/0.037
4-40	0.166/0.183	0.088/0.107	0.031/0.039	0.035/0.048
6-32	0.208/0.266	0.111/0.132	0.043/0.057	0.045/0.060
8-32	0.250/0.270	0.133/0.156	0.045/0.054	0.054/0.071
10-32	0.292/0.313	0.156/0.180	0.050/0.060	0.064/0.083
1/4-20	0.387/0.393	0.207/0.237	0.049/0.060	0.087/0.109
5/16-18	0.485/0.494	0.262/0.295	0.060/0.069	0.110/0.110
3/8-16	0.578/0.592	0.315/0.355	0.060/0.070	0.133/0.164

Item No.	Thread	L In	Pack Qty.
SFS1060A	2-56	1/2	1,000
SFS1100A	2-56	1	1,000
SFS1130A	4-40	3/16	1,000
SFS1160A	4-40	3/8	1,000
SFS1180A	4-40	1/2	1,000
SFS1230A	4-40	1	1,000
SFS1280A	6-32	3/8	1,000
SFS1330A	6-32	3/4	1,000
SFS1440A	8-32	1/2	1,000
SFS1490A	8-32	1	1,000
SFS1600A	10-32	1/2	1,000

Item No.	Thread	L In	Pack Qty.
SFS1650A	10-32	1	1,000
SFS1700A	10-32	2	1,000
SFS1720A	1/4-20	1/2	1,000
SFS1740A	1/4-20	1	1,000
SFS1780A	1/4-20	2	1,000
SFS1800A	5/16-18	1/2	1,000
SFS1820A	5/16-18	1	1,000
SFS1860A	5/16-18	2	1,000
SFS1880A	3/8-16	1/2	500
SFS1900A	3/8-16	1	500
SFS1940A	3/8-16	2	500

STS Series
Slotted Thumb Screws



Thread	D (In)	T (In)	S (In)	S1 (In)
4-40	0.316/0.326	0.210/0.220	0.031/0.039	0.030/0.040
6-32	0.330/0.340	0.240/0.250	0.039/0.048	0.037/0.050
8-32	0.380/0.390	0.280/0.290	0.045/0.054	0.045/0.058
10-32	0.400/0.410	0.300/0.310	0.050/0.060	0.053/0.068
1/4-20	0.488/0.496	0.322/0.330	0.050/0.060	0.084/0.092

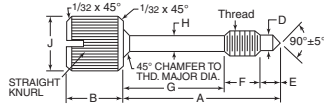
Item No.	Thread	L In	Pack Qty.
STS1060A	4-40	1/2	1,000
STS1110A	4-40	1	1,000
STS1180A	6-32	1/2	1,000
STS1230A	6-32	1	1,000
STS1320A	8-32	1/2	1,000
STS1370A	8-32	1	1,000
STS1420A	8-32	2	1,000

Item No.	Thread	L In	Pack Qty.
STS1480A	10-32	1/2	1,000
STS1530A	10-32	1	1,000
STS1580A	10-32	2	1,000
STS1600A	1/4-20	1/2	1,000
STS1620A	1/4-20	1	1,000
STS1660A	1/4-20	2	1,000

CAPTIVE PANEL SCREWS



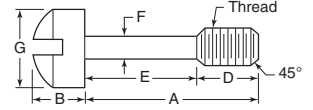
Knurled Head



Made from non-magnetic Type 303 stainless steel (ASTM-A-581, A-582). For use in panel assemblies, cabinets, enclosures and other applications. They can be held captive by using the stainless steel split washers.

Item No.	Thread	A	B	D	E	F	G	H	J	Pack Qty.
RAF-1310	4-40	27/32	3/16	—	—	9/32	3/8	.078	9/16	1
RAF-1312	4-40	29/32	3/16	—	—	9/32	7/16	.078	9/16	1
RAF-1314	4-40	29/32	3/16	—	—	9/32	1/2	.078	9/16	1
RAF-1316	4-40	27/32	3/16	—	—	9/32	9/16	.078	9/16	1
RAF-1318	4-40	29/32	3/16	—	—	9/32	5/8	.078	9/16	1
RAF-1382	6-32	7/16	9/16	.095	3/32	7/32	1/8	.095	9/16	1
RAF-1012	6-32	1/2	9/16	.095	3/32	7/32	3/16	.095	9/16	1
RAF-1384	6-32	9/16	9/16	.095	3/32	7/32	1/4	.095	9/16	1
RAF-1386	6-32	3/8	9/16	.095	3/32	7/32	5/16	.095	9/16	1
RAF-1320	6-32	21/32	3/16	—	—	9/32	3/8	.095	9/16	1
RAF-1388	6-32	11/16	9/16	.095	3/32	7/32	3/8	.095	9/16	1
RAF-1322	6-32	29/32	3/16	—	—	9/32	7/16	.095	9/16	1
RAF-1014	6-32	3/4	9/16	.095	3/32	7/32	7/16	.095	9/16	1
RAF-1324	6-32	29/32	3/16	—	—	9/32	1/2	.095	9/16	1
RAF-1390	6-32	19/16	9/16	.095	3/32	7/32	1/2	.095	9/16	1
RAF-1326	6-32	27/32	3/16	—	—	9/32	9/16	.095	9/16	1
RAF-1392	6-32	7/8	9/16	.095	3/32	7/32	9/16	.095	9/16	1
RAF-1328	6-32	29/32	3/16	—	—	9/32	5/8	.095	9/16	1
RAF-1394	6-32	15/16	9/16	.095	3/32	7/32	5/8	.095	9/16	1
RAF-1016	6-32	1	9/16	.095	3/32	7/32	11/16	.095	9/16	1
RAF-1396	6-32	11/16	9/16	.095	3/32	7/32	3/4	.095	9/16	1
RAF-1398	6-32	1 1/8	9/16	.095	3/32	7/32	13/16	.095	9/16	1
RAF-1400	6-32	13/16	9/16	.095	3/32	7/32	7/8	.095	9/16	1
RAF-1402	6-32	1 1/4	9/16	.095	3/32	7/32	15/16	.095	9/16	1
RAF-1330	6-32	27/32	3/16	—	—	9/32	3/8	.095	3/8	1
RAF-1332	6-32	29/32	3/16	—	—	9/32	7/16	.095	3/8	1
RAF-1334	6-32	29/32	3/16	—	—	9/32	1/2	.095	3/8	1
RAF-1336	6-32	27/32	3/16	—	—	9/32	9/16	.095	3/8	1
RAF-1338	6-32	29/32	3/16	—	—	9/32	5/8	.095	3/8	1
RAF-1404	8-32	7/16	9/16	.120	3/32	7/32	1/8	.120	9/16	1
RAF-1018	8-32	1/2	9/16	.120	3/32	7/32	3/16	.120	9/16	1
RAF-1406	8-32	9/16	9/16	.120	3/32	7/32	1/4	.120	9/16	1
RAF-1408	8-32	5/8	9/16	.120	3/32	7/32	5/16	.120	9/16	1
RAF-1410	8-32	11/16	9/16	.120	3/32	7/32	3/8	.120	9/16	1
RAF-1020	8-32	3/4	9/16	.120	3/32	7/32	7/16	.120	9/16	1
RAF-1412	8-32	13/16	9/16	.120	3/32	7/32	1/2	.120	9/16	1
RAF-1414	8-32	7/8	9/16	.120	3/32	7/32	9/16	.120	9/16	1
RAF-1416	8-32	15/16	9/16	.120	3/32	7/32	5/8	.120	9/16	1
RAF-1022	8-32	1	9/16	.120	3/32	7/32	11/16	.120	9/16	1
RAF-1418	8-32	1 1/16	9/16	.120	3/32	7/32	3/4	.120	9/16	1
RAF-1420	8-32	1 1/8	9/16	.120	3/32	7/32	13/16	.120	9/16	1
RAF-1422	8-32	13/16	9/16	.120	3/32	7/32	7/8	.120	9/16	1
RAF-1424	8-32	1 1/4	9/16	.120	3/32	7/32	15/16	.120	9/16	1
RAF-1525	8-32	—	1/4	—	—	3/8	1/4	.120	7/16	1
RAF-1526	8-32	—	1/4	—	—	3/8	5/16	.120	7/16	1
RAF-1527	8-32	—	1/4	—	—	3/8	3/8	.120	7/16	1
RAF-1528	8-32	—	1/4	—	—	3/8	7/16	.120	7/16	1
RAF-1529	8-32	—	1/4	—	—	3/8	1/2	.120	7/16	1
RAF-1530	8-32	—	1/4	—	—	3/8	9/16	.120	7/16	1
RAF-1531	8-32	—	1/4	—	—	3/8	5/8	.120	7/16	1
RAF-1532	8-32	—	1/4	—	—	3/8	11/16	.120	7/16	1
RAF-1533	8-32	—	1/4	—	—	3/8	3/4	.120	7/16	1
RAF-1534	8-32	—	1/4	—	—	3/8	13/16	.120	7/16	1
RAF-1535	8-32	—	1/4	—	—	3/8	7/8	.120	7/16	1
RAF-1536	8-32	—	1/4	—	—	3/8	15/16	.120	7/16	1
RAF-1537	8-32	—	1/4	—	—	3/8	1.000	.120	7/16	1
RAF-1538	8-32	—	1/4	—	—	3/8	1 1/16	.120	7/16	1
RAF-1539	8-32	—	1/4	—	—	3/8	1 1/8	.120	7/16	1
RAF-1540	8-32	—	1/4	—	—	3/8	1 3/16	.120	7/16	1
RAF-1541	8-32	—	1/4	—	—	3/8	1 1/4	.120	7/16	1
RAF-1542	8-32	—	1/4	—	—	3/8	1 5/16	.120	7/16	1
RAF-1543	8-32	—	1/4	—	—	3/8	1 3/8	.120	7/16	1
RAF-1544	8-32	—	1/4	—	—	3/8	1 7/16	.120	7/16	1
RAF-1545	8-32	—	1/4	—	—	3/8	1 1/2	.120	7/16	1
RAF-1546	8-32	—	1/4	—	—	3/8	1 9/16	.120	7/16	1
RAF-1547	8-32	—	1/4	—	—	3/8	1 5/8	.120	7/16	1
RAF-1030	10-32	1/2	7/16	.130	5/32	1/4	3/8	.130	3/8	1
RAF-1470	10-32	9/16	7/16	.130	5/32	1/4	5/8	.130	3/8	1
RAF-1032	10-32	3/8	7/16	.130	5/32	1/4	7/8	.130	3/8	1
RAF-1472	10-32	11/16	7/16	.130	5/32	1/4	9/8	.130	3/8	1
RAF-1034	10-32	3/4	7/16	.130	5/32	1/4	1 1/8	.130	3/8	1
RAF-1474	10-32	13/16	7/16	.130	5/32	1/4	1 3/8	.130	3/8	1
RAF-1036	10-32	7/8	7/16	.130	5/32	1/4	1 5/8	.130	3/8	1
RAF-1476	10-32	15/16	7/16	.130	5/32	1/4	1 7/8	.130	3/8	1
RAF-1038	10-32	1	7/16	.130	5/32	1/4	1 9/8	.130	3/8	1
RAF-1478	10-32	1 1/16	7/16	.130	5/32	1/4	2 1/8	.130	3/8	1
RAF-1480	10-32	1 1/8	7/16	.130	5/32	1/4	2 3/8	.130	3/8	1
RAF-1482	10-32	1 3/16	7/16	.130	5/32	1/4	2 5/8	.130	3/8	1
RAF-1040	10-32	1 1/4	7/16	.130	5/32	1/4	2 7/8	.130	3/8	1
RAF-1484	10-32	1 5/16	7/16	.130	5/32	1/4	2 9/8	.130	3/8	1
RAF-1486	10-32	1 3/8	7/16	.130	5/32	1/4	3 1/8	.130	3/8	1
RAF-1488	10-32	1 7/16	7/16	.130	5/32	1/4	1 3/2	.130	3/8	1
RAF-1042	10-32	1 1/2	7/16	.130	5/32	1/4	1 5/2	.130	3/8	1
RAF-1492	10-32	1 9/16	7/16	.130	5/32	1/4	1 7/2	.130	3/8	1
RAF-1494	10-32	1 5/8	7/16	.130	5/32	1/4	1 7/2	.130	3/8	1
RAF-1496	10-32	1 11/16	7/16	.130	5/32	1/4	1 9/2	.130	3/8	1
RAF-1498	10-32	1 3/4	7/16	.130	5/32	1/4	1 11/2	.130	3/8	1
RAF-1500	10-32	1 13/16	7/16	.130	5/32	1/4	1 13/2	.130	3/8	1
RAF-1502	10-32	1 7/8	7/16	.130	5/32	1/4	1 13/2	.130	3/8	1
RAF-1504	10-32	1 15/16	7/16	.130	5/32	1/4	1 17/2	.130	3/8	1
RAF-1506	10-32	2	7/16	.130	5/32	1/4	1 17/2	.130	3/8	1

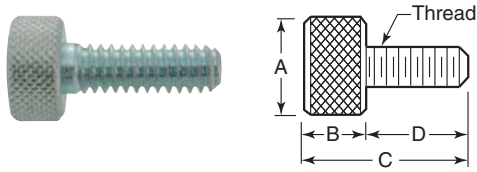
Fillister Head



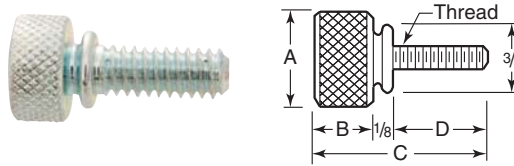
Item No.	Thread	D	E	F	A	B	G	Pack Qty.
RAF-1056	4-40	3/16	9/16	.078	1/2	.107	11/64	1
RAF-1062	6-32	7/32	9/32	.095	1/2	.132	7/32	1
RAF-1064	6-32	7/32	11/32	.095	3/4	.132	7/32	1
RAF-1068	8-32	7/32	11/32	.120	1/2	.156	1/4	1
RAF-1069	8-32	7/32	11/32	.120	3/4	.156	1/4	1
RAF-1070	8-32	7/32	11/32	.120	3/4	.156	1/4	1
RAF-1071	8-32	7/32	11/32	.120	3/4	.156	1/4	1
RAF-1072	8-32	7/32	11/32	.120	1	.156	1/4	1
RAF-1073	8-32	7/32	21/32	.120	1	.156	1/4	1
RAF-1074	10-32	9/32	7/32	.130	1/2	.180	5/16	1
RAF-1075	10-32	9/32	9/32	.130	3/4	.180	5/16	1
RAF-1076	10-32	9/32	15/32	.130	3/4	.180	5/16	1
RAF-1077	10-32	9/32	11/32	.130	3/4	.180	5/16	1
RAF-1078	10-32	9/32	23/32	.130	1	.180	5/16	1
RAF-1079	10-32	9/32	23/32	.130	1	.180	5/16	1
RAF-1091	8-32	7/32	23/32	.120	5/8	.156	1/4	1
RAF-1092	8-32	7/32	15/32	.120	3/8	.156	1/4	1
RAF-1093	8-32	7/32	21/32	.120	7/8	.156	1/4	1
RAF-1094	8-32	7/32	23/32	.120	1	.156	1/4	1
RAF-1095	8-32	7/32	29/32	.120	1 1/2	.156	1/4	1
RAF-1096	8-32	7/32	31/32	.120	1 1/8	.156	1/4	1
RAF-1097	8-32	7/32	11/32	.120	1 1/4	.156	1/4	1
RAF-1098	10-32	9/32	11/32	.130	5/8	.180	5/16	1
RAF-1099	10-32	9/32	13/32	.130	3/8	.180	5/16	1
RAF-1100	10-32	9/32	19/32	.130	7/8	.180	5/16	1
RAF-1101	10-32	9/32	21/32	.130	1	.180	5/16	1
RAF-1102	10-32	9/32	27/32	.130	1 1/8	.180	5/16	1
RAF-1103	10-32	9/32	29/32	.130	1 1/8	.180	5/16	1
RAF-1104	10-32	9/32	31/32	.130	1 1/4	.180	5/16	1
RAF-1105	10-32	9/32	11/32	.130	1 1/8	.180	5/16	1
RAF-1106	10-32	9/32	13/32	.130	1 3			



Steel, Stainless Steel, Aluminum & Brass
Plain & Washer Face



Plain

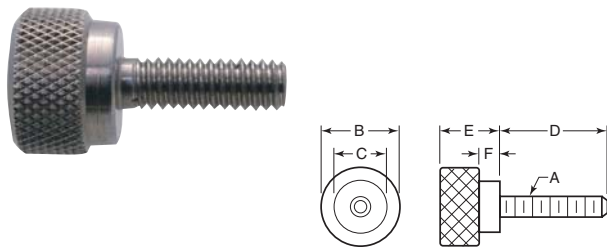


Washer Face

General purpose thumb screws for a wide variety of applications. The washer face provides an excellent bearing surface and extends the height of the knob from the surface. Steel is zinc coated. Stainless and aluminum have plain finish. Brass is zinc, clear chromate plated.

Brass				Steel				Stainless				Aluminum				Pack Qty.			
Item No.	Item No.	Item No.	Item No.	Thread	A	B	C	D	Item No.	Item No.	Item No.	Item No.	Thread	A	B		C	D	Pack Qty.
Plain																			
AJ-839	—	—	AJ-439	1/4-20	.500	.250	.750	.375	1	AJ-1058	AJ-1059	AJ-1060	AJ-1057	10-32	.438	.188	.625	.438	1
AJ-486	AJ-539	AJ-589	AJ-439	1/4-20	.500	.250	.750	.500	1	—	—	—	AJ-890	10-32	.438	.188	.688	.375	1
AJ-1066	AJ-1067	AJ-1068	—	1/4-20	.500	.250	.813	.563	1	AJ-1062	AJ-1063	AJ-1064	AJ-1061	10-32	.438	.188	.750	.563	1
AJ-489	AJ-542	AJ-592	AJ-442	1/4-20	.500	.250	.875	.625	1	—	—	—	AJ-893	10-32	.438	.188	.813	.500	1
AJ-1070	AJ-1071	AJ-1072	AJ-1069	1/4-20	.500	.250	.938	.688	1	—	—	—	AJ-896	10-32	.438	.188	.938	.625	1
—	—	—	AJ-1033	1/4-20	.500	.250	1.000	.625	1	—	—	—	AJ-1065	10-32	.500	.250	.813	.563	1
AJ-492	AJ-545	AJ-595	AJ-445	1/4-20	.500	.250	1.000	.750	1	AJ-1036	—	—	AJ-863	4-40	.375	.188	.625	.312	1
AJ-459	AJ-512	AJ-562	AJ-412	6-32	.313	.188	.500	.313	1	—	AJ-1037	AJ-1038	AJ-1035	4-40	.313	.188	.625	.438	1
AJ-1042	AJ-515	AJ-565	AJ-1041	6-32	.313	.188	.563	.375	1	—	AJ-926	—	AJ-866	4-40	.375	.188	.688	.375	1
AJ-465	AJ-518	AJ-568	AJ-1047	6-32	.313	.188	.688	.500	1	AJ-809	—	—	AJ-1029	4-40	.375	.188	.750	.438	1
AJ-468	AJ-521	AJ-571	—	8-32	.375	.188	.563	.375	1	Washer Face									
AJ-471	AJ-524	AJ-574	AJ-1052	8-32	.375	.188	.688	.500	1	—	AJ-959	AJ-1019	AJ-899	1/4-20	.500	.250	.750	.375	1
AJ-474	AJ-527	AJ-577	AJ-427	8-32	.375	.188	.813	.625	1	AJ-842	AJ-962	AJ-1022	AJ-902	1/4-20	.500	.250	.875	.500	1
AJ-477	AJ-530	AJ-580	AJ-430	10-32	.438	.188	.563	.375	1	AJ-845	AJ-965	AJ-1025	—	1/4-20	.500	.250	1.000	.625	1
AJ-480	AJ-533	AJ-583	AJ-433	10-32	.438	.188	.688	.500	1	AJ-848	AJ-968	AJ-1028	AJ-908	1/4-20	.500	.250	1.125	.750	1
AJ-483	AJ-536	AJ-586	AJ-436	10-32	.438	.188	.813	.625	1	AJ-812	AJ-932	AJ-992	—	6-32	.375	.188	.688	.375	1
AJ-450	AJ-503	AJ-553	AJ-403	4-40	.313	.188	.500	.313	1	—	AJ-935	AJ-995	AJ-875	6-32	.375	.188	.750	.438	1
AJ-453	AJ-506	AJ-556	AJ-1034	4-40	.313	.188	.563	.375	1	—	AJ-938	AJ-998	AJ-878	6-32	.375	.188	.813	.500	1
AJ-1040	AJ-509	AJ-559	AJ-1039	4-40	.313	.188	.688	.500	1	—	AJ-941	AJ-1001	—	8-32	.438	.188	.688	.375	1
—	—	—	AJ-421	6-32	.375	.188	.563	.375	1	AJ-824	AJ-944	AJ-1004	—	8-32	.438	.188	.813	.500	1
AJ-1044	AJ-1045	AJ-1046	AJ-1043	6-32	.313	.188	.625	.438	1	—	AJ-947	AJ-1007	AJ-887	8-32	.438	.188	.938	.625	1
—	—	—	AJ-872	6-32	.375	.188	.688	.375	1	AJ-830	AJ-950	AJ-1010	—	10-32	.438	.188	.688	.375	1
AJ-1030	—	—	—	6-32	.375	.188	.750	.438	1	AJ-833	AJ-953	AJ-1013	—	10-32	.438	.188	.813	.500	1
AJ-1031	—	—	—	6-32	.375	.188	.813	.500	1	AJ-836	AJ-956	AJ-1016	—	10-32	.438	.188	.938	.625	1
AJ-1049	AJ-1050	AJ-1051	AJ-1048	8-32	.375	.188	.625	.438	1	AJ-803	AJ-923	AJ-983	—	4-40	.375	.188	.625	.313	1
AJ-821	—	—	AJ-1032	8-32	.438	.188	.688	.375	1	—	—	AJ-986	—	4-40	.375	.188	.688	.375	1
AJ-1054	AJ-1055	AJ-1056	AJ-1053	8-32	.375	.188	.750	.563	1	—	AJ-929	AJ-989	—	4-40	.375	.188	.750	.438	1
—	—	—	AJ-884	8-32	.438	.188	.813	.500	1	—	—	—	—	—	—	—	—	—	—
AJ-827	—	—	—	8-32	.438	.188	.938	.625	1	—	—	—	—	—	—	—	—	—	—

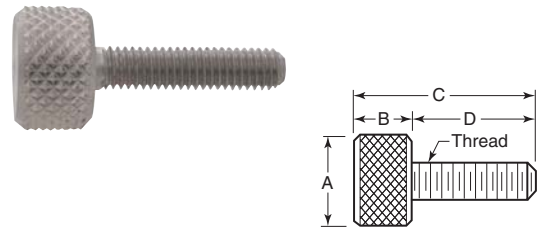
With Shoulder
303 Stainless Steel



Diamond knurl on head. Shoulder provides an excellent bearing surface.

Item No.	A	B	C	D	E	F	Pack Qty.
KTS-4202	6-32	7/16	3/8	7/16	5/16	3/32	1
KTS-4204	6-32	7/16	3/8	7/16	5/16	3/32	1
KTS-4205	8-32	7/16	3/8	7/16	5/16	3/32	1
KTS-4206	8-32	7/16	3/8	7/16	5/16	3/32	1
KTS-4208	8-32	7/16	3/8	7/16	5/16	3/32	1
KTS-4301	8-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4302	8-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4303	8-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4304	8-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4305	8-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4401	10-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4402	10-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4403	10-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4404	10-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4405	10-32	1/2	3/8	7/16	5/16	3/32	1
KTS-4406	10-32	1/2	3/8	7/16	5/16	3/32	1

303 Stainless Steel
Metric



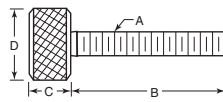
Dimensions are shown in millimeters.

Item No.	Thread	A	B	C	D	Pack Qty.
AJ-603	M3 x .5	8	5	13	8	1
AJ-609	M3 x .5	8	5	16	11	1
AJ-612	M3 x .5	8	5	18	13	1
AJ-615	M3.5 x .6	8	5	13	8	1
AJ-624	M3.5 x .6	8	5	18	13	1
AJ-627	M4 x .7	10	5	14	9	1
AJ-630	M4 x .7	10	5	16	11	1
AJ-633	M4 x .7	10	5	18	13	1
AJ-636	M4 x .7	10	5	19	14	1
AJ-639	M4 x .7	10	5	21	16	1
AJ-642	M5 x .8	11	5	14	9	1
AJ-645	M5 x .8	11	5	16	11	1
AJ-648	M5 x .8	11	5	18	13	1
AJ-654	M5 x .8	11	5	21	16	1
AJ-657	M6 x 1	13	6	19	13	1
AJ-660	M6 x 1	13	6	21	14	1
AJ-663	M6 x 1	13	6	22	16	1
AJ-666	M6 x 1	13	6	24	18	1
AJ-669	M6 x 1	13	6	25	19	1

THUMB SCREWS & SHOULDER SCREWS



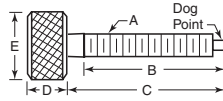
Knurled Head Screws Steel and Stainless Steel Flat Point



For jig and fixture work. Available in 12L14 steel, not hardened, with black oxide finish. Stainless is Type 303 stainless steel.

Steel	Stainless						Pack Qty.
Item No.	Item No.	A	B	C	D		
KHS-0S	SKHS-0S	10-32	1 1/2	3/16	5/8		1
KHS-0	SKHS-0	10-32	2	3/16	5/8		1
KHS-1S	SKHS-1S	10-24	1 1/2	3/16	5/8		1
KHS-1	SKHS-1	10-24	2	3/16	5/8		1
KHS-2S	SKHS-2S	1/4-20	1 1/2	7/32	1 1/16		1
KHS-2	SKHS-2	1/4-20	2 1/2	7/32	1 1/16		1
KHS-3S	SKHS-3S	5/16-18	1 3/4	1/4	3/4		1
KHS-3	SKHS-3	5/16-18	2 1/4	1/4	3/4		1
KHS-3L	SKHS-3L	5/16-18	3	1/4	3/4		1
KHS-4S	SKHS-4S	3/8-16	2	5/16	7/8		1
KHS-4	SKHS-4	3/8-16	2 1/2	5/16	7/8		1
KHS-4L	SKHS-4L	3/8-16	3	5/16	7/8		1
KHS-5	SKHS-5	1/2-13	3	3/8	1		1

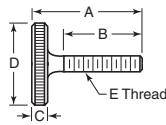
Knurled Head Screws Dog Point



Used where permanent location of one part in relation to another is desired. Point is usually spotted in hole or slot. Heat treated steel with black oxide finish.

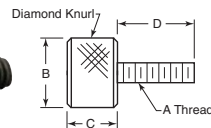
Item No.	A	B	C	D	E	Pack Qty.	Item No.	A	B	C	D	E	Pack Qty.
KHS-101	10-24	3/4	1	1/4	3/4	1	KHS-107	5/16-18	1 1/4	1 1/2	3/8	1 1/8	1
KHS-102	10-24	1 1/4	1 1/2	1/4	3/4	1	KHS-108	5/16-18	1 3/4	2	3/8	1 1/8	1
KHS-103	10-24	1 3/4	2	1/4	3/4	1	KHS-109	5/16-18	2 1/4	2 1/2	3/8	1 1/8	1
KHS-104	1/4-20	1 1/4	1 1/2	5/16	1	1	KHS-110	3/8-16	1 3/4	2	7/16	1 1/4	1
KHS-105	1/4-20	1 3/4	2	5/16	1	1	KHS-112	3/8-16	2 3/4	3	7/16	1 1/4	1
KHS-106	1/4-20	2 1/4	2 1/2	5/16	1	1	KHS-113	1/2-13	2 3/4	3	1/2	1 1/4	1

Knurled Head Screws Type 303 Stainless Steel



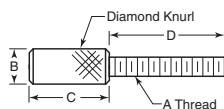
Item No.	A	B	C	D	E	Pack Qty.	Item No.	A	B	C	D	E	Pack Qty.
KTS-8255	1	7/16	1/2	1/4	6-32	1	KTS-8287	1 1/16	1	3/16	1	10-32	1
KTS-8262	1 1/2	1 3/16	1/2	1/4	8-32	1	KTS-8289	1 3/16	5/8	3/8	3/4	1/4-20	1
KTS-8264	3/8	3/8	1/8	3/8	8-32	1	KTS-8291	1 1/16	1	3/16	3/4	1/4-20	1
KTS-8281	1 3/16	5/8	5/16	1/2	10-32	1	KTS-8294	1 3/16	3/8	3/16	1	1/4-20	1
KTS-8283	1 1/16	1	3/16	1/2	10-32	1	KTS-8296	1 1/16	1	3/16	1	1/4-20	1

Thumb Screws Nylatron GS



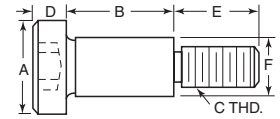
Item No.	A	B	C	D	Pack Qty.	Item No.	A	B	C	D	Pack Qty.
NC-100	6-32	3/8	1/8	3/8	1	NC-140	10-32	3/8	3/16	1/2	1
NC-105	6-32	3/8	1/8	1/2	1	NC-145	10-32	1/2	3/16	3/4	1
NC-110	8-32	3/8	3/16	3/8	1	NC-150	10-32	3/4	3/16	3/4	1
NC-115	8-32	3/8	3/16	1/2	1	NC-155	10-32	3/4	3/16	1	1
NC-120	8-32	3/8	3/16	3/4	1	NC-160	1/4-20	1/2	3/16	3/4	1
NC-125	10-24	3/8	3/16	1/2	1	NC-165	1/4-20	3/4	3/16	3/4	1
NC-130	10-24	1/2	3/16	3/4	1	NC-170	1/4-20	3/4	3/16	1	1
NC-135	10-24	3/4	3/16	3/4	1						

Precision Thumb Screw 303 Stainless Steel



Item No.	A	B	C	D	Pack Qty.	Item No.	A	B	C	D	Pack Qty.
KTS-4118	4-40	3/16	3/8	1	1	KTS-4326	10-24	1/4	1/2	1	1
KTS-4122	6-32	3/16	3/8	1	1	KTS-4359	10-32	1/4	1/2	1	1
KTS-4219	8-32	3/16	3/8	1/2	1	KTS-4374	10-32	1/4	1/2	1	1
KTS-4228	8-32	3/16	3/8	1	1	KTS-4410	1/4-20	5/16	1/2	1/2	1
KTS-4310	10-24	1/4	1/2	1/2	1	KTS-4413	1/4-20	3/16	1/2	1	1

Shoulder Screws Jig and Fixture Type - Steel

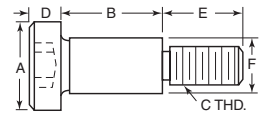


Many uses in the construction of tool, jig and fixture work. Steel is 4140L, heat treated with black oxide finish. Stainless is Type 303.

See page 556 - 558 for hex keys. See page 463 for lengthening and shortening shims.

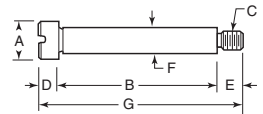
Item No.	A	B	C	D	E	F	Key Size	Pack Qty.
SS-00	3/8	.250	10-24	3/16	3/8	.2480/.2460	1/8	1
SS-7	7/16	.250	1/4-20	7/32	7/16	.3105/.3085	5/32	1
SS-0	7/16	.312	1/4-20	7/32	7/16	.3105/.3085	5/32	1
SS-1	3/8	.250	1/4-20	3/16	3/8	.3730/.3710	3/16	1
SS-2	3/8	.312	1/4-20	3/16	3/8	.3730/.3710	3/16	1
SS-3	3/4	.375	5/16-18	1/4	1/2	.4980/.4960	1/4	1
SS-4	3/4	.500	3/8-16	1/4	1/2	.4980/.4960	1/4	1
SS-5	3/4	.625	3/8-16	1/4	1/2	.4980/.4960	1/4	1
SS-6	3/4	.750	3/8-16	1/4	1/2	.4980/.4960	1/4	1
SS-8	7/8	1.000	1/2-13	3/8	3/4	.6230/.6210	5/16	1

Shoulder Screws Standard Type - Stainless Steel



Item No.	A	B	C	D	E	F	Pack Qty.
MMS-1	3/8	1/4	10-24	3/16	3/8	1/4	1
MMS-2	3/8	3/8	10-24	3/16	3/8	1/4	1
MMS-3	3/8	1/2	10-24	3/16	3/8	1/4	1
MMS-4	3/8	3/8	10-24	3/16	3/8	1/4	1
MMS-5	3/8	3/4	10-24	3/16	3/8	1/4	1
MMS-6	3/8	1	10-24	3/16	3/8	1/4	1
MMS-7	7/16	1/4	1/4-20	7/32	7/16	5/16	1
MMS-8	7/16	3/8	1/4-20	7/32	7/16	5/16	1
MMS-9	7/16	1/2	1/4-20	7/32	7/16	5/16	1
MMS-10	7/16	3/8	1/4-20	7/32	7/16	5/16	1
MMS-11	7/16	3/4	1/4-20	7/32	7/16	5/16	1
MMS-12	7/16	1	1/4-20	7/32	7/16	5/16	1
MMS-13	3/4	1/4	5/16-18	1/4	1/2	3/8	1
MMS-14	3/4	3/8	5/16-18	1/4	1/2	3/8	1
MMS-15	3/4	1/2	5/16-18	1/4	1/2	3/8	1
MMS-16	3/4	3/8	5/16-18	1/4	1/2	3/8	1
MMS-17	3/4	3/4	5/16-18	1/4	1/2	3/8	1
MMS-18	3/4	1	5/16-18	1/4	1/2	3/8	1
MMS-19	3/4	3/8	5/16-16	5/16	5/8	1/2	1
MMS-20	3/4	1/2	5/16-16	5/16	5/8	1/2	1
MMS-21	3/4	3/8	5/16-16	5/16	5/8	1/2	1
MMS-22	3/4	3/4	5/16-16	5/16	5/8	1/2	1
MMS-23	3/4	1	5/16-16	5/16	5/8	1/2	1
MMS-24	7/8	1/2	1/2-13	3/8	3/4	5/8	1
MMS-25	7/8	3/8	1/2-13	3/8	3/4	5/8	1
MMS-26	7/8	3/4	1/2-13	3/8	3/4	5/8	1
MMS-27	7/8	1	1/2-13	3/8	3/4	5/8	1

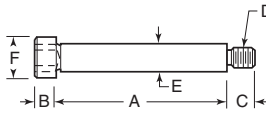
Shoulder Screws Slotted Head Type - 303 Stainless



Item No.	A	B	C	D	E	F	G	Pack Qty.
ART-5	1/4	1/8	4-40	1/8	5/32	1/8	13/32	1
ART-10	1/4	3/16	4-40	1/8	5/32	1/8	15/32	1
ART-15	1/4	1/4	4-40	1/8	5/32	1/8	17/32	1
ART-20	1/4	5/16	4-40	1/8	5/32	1/8	19/32	1
ART-25	1/4	3/8	4-40	1/8	5/32	1/8	21/32	1
ART-30	5/16	1/2	8-32	3/32	3/16	3/16	15/32	1
ART-35	5/16	3/8	8-32	3/32	3/16	3/16	17/32	1
ART-40	5/16	1/4	8-32	3/32	3/16	3/16	19/32	1
ART-45	5/16	5/16	8-32	3/32	3/16	3/16	21/32	1
ART-50	5/16	3/8	8-32	3/32	3/16	3/16	23/32	1
ART-55	5/16	1/2	8-32	3/32	3/16	3/16	25/32	1
ART-60	5/16	5/8	8-32	3/32	3/16	3/16	27/32	1
ART-65	5/16	3/4	8-32	3/32	3/16	3/16	29/32	1
ART-70	5/16	1	8-32	3/32	3/16	3/16	31/32	1
ART-75	5/16	1 1/4	8-32	3/32	3/16	3/16	1 1/32	1
ART-80	5/16	1 1/2	8-32	3/32	3/16	3/16	1 1/8	1
ART-85	3/8	1/8	10-32	3/16	1/4	1/4	9/16	1
ART-90	3/8	3/16	10-32	3/16	1/4	1/4	5/8	1
ART-95	3/8	1/4	10-32	3/16	1/4	1/4	11/16	1
ART-100	3/8	5/16	10-32	3/16	1/4	1/4	3/4	1
ART-105	3/8	3/8	10-32	3/16	1/4	1/4	13/16	1
ART-110	3/8	1/2	10-32	3/16	1/4	1/4	15/16	1
ART-115	3/8	5/8	10-32	3/16	1/4	1/4	1 1/16	1
ART-120	3/8	3/4	10-32	3/16	1/4	1/4	1 1/8	1
ART-125	3/8	1	10-32	3/16	1/4	1/4	1 1/4	1
ART-130	3/8	1 1/4	10-32	3/16	1/4	1/4	1 1/2	1
ART-135	3/8	1 1/2	10-32	3/16	1/4	1/4	1 5/8	1
ART-140	1/2	1/4	1/4-20	7/32	7/16	7/16	29/32	1
ART-145	1/2	5/16	1/4-20	7/32	7/16	7/16	31/32	1
ART-155	1/2	1/2	1/4-20	7/32	7/16	7/16	1 1/32	1
ART-165	1/2	3/4	1/4-20	7/32	7/16	7/16	1 1/8	1



Standard Type Hex Head Steel



These shoulder screws or stripper bolts are the hexagon socket type and are made of alloy steel and heat treated.

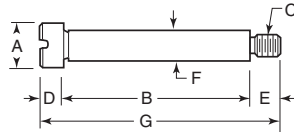
See pages 556-558 for hex keys.

See page 463 for lengthening and shortening shims.

Holo-Krome		Import Line		A	B	C	D	E	F	Key Size
Item No.	Pack Qty.	Item No.	Pack Qty.							
HK-08002	1	BRB-221001P	25	3/8	3/16	3/8	10-24	1/4	3/8	1/8
HK-08004	1	BRB-221004P	25	1/2	3/16	3/8	10-24	1/4	3/8	1/8
HK-08006	1	BRB-221007P	25	5/8	3/16	3/8	10-24	1/4	3/8	1/8
HK-08008	1	BRB-221010P	25	3/4	3/16	3/8	10-24	1/4	3/8	1/8
HK-08010	1	BRB-221013P	25	1	3/16	3/8	10-24	1/4	3/8	1/8
HK-08012	1	BRB-221016P	25	1 1/4	3/16	3/8	10-24	1/4	3/8	1/8
HK-08014	1	BRB-221019P	25	1 1/2	3/16	3/8	10-24	1/4	3/8	1/8
HK-08016	1	BRB-221022P	25	3/8	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08018	1	BRB-221025P	25	1/2	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08020	1	BRB-221028P	25	5/8	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08022	1	BRB-221031P	25	3/4	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08024	1	BRB-221034P	25	1	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08026	1	BRB-221037P	25	1 1/4	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08028	1	BRB-221040P	25	1 1/2	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08030	1	BRB-221043P	25	1 3/4	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08032	1	BRB-221046P	25	2	7/32	7/16	1/4-20	5/16	7/16	5/32
HK-08034	1	BRB-221049P	25	3/8	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08036	1	BRB-221052P	25	1/2	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08038	1	BRB-221055P	25	5/8	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08040	1	BRB-221058P	25	3/4	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08042	1	BRB-221061P	25	1	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08046	1	BRB-221064P	25	1 1/4	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08048	1	BRB-221067P	25	1 1/2	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08049	1	BRB-221070P	25	1 3/4	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08050	1	BRB-221073P	25	2	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08052	1	BRB-221076P	25	2 1/4	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08054	1	BRB-221079P	25	2 1/2	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08056	1	BRB-221082P	25	2 3/4	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08058	1	BRB-221085P	25	3	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08060	1	BRB-221088P	25	3 1/4	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08062	1	BRB-221091P	25	3 1/2	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08064	1	BRB-221097P	25	4	1/4	1/2	5/16-18	3/8	9/16	3/16
HK-08066	1	BRB-221100P	25	1/2	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08068	1	BRB-221103P	25	5/8	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08070	1	BRB-221106P	25	3/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08072	1	BRB-221109P	25	1	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08074	1	BRB-221112P	25	1 1/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08076	1	BRB-221115P	25	1 1/2	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08078	1	BRB-221118P	25	1 3/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08080	1	BRB-221121P	25	2	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08082	1	BRB-221124P	25	2 1/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08084	1	BRB-221127P	25	2 1/2	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08086	1	BRB-221130P	25	2 3/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08088	1	BRB-221133P	25	3	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08090	1	BRB-221136P	25	3 1/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08092	1	BRB-221139P	25	3 1/2	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08093	1	BRB-221141P	25	3 3/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08094	1	BRB-221145P	25	4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08095	1	BRB-221147P	25	4 1/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08096	1	BRB-221151P	25	4 1/2	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08097	1	BRB-221153P	25	4 3/4	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08098	1	BRB-221157P	25	5	5/16	5/8	3/8-16	1/2	3/4	1/4
HK-08100	1	BRB-221160P	25	1 1/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08102	1	BRB-221163P	25	1 1/2	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08104	1	BRB-221166P	25	1 3/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08106	1	BRB-221169P	25	2	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08108	1	BRB-221172P	25	2 1/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08110	1	BRB-221175P	25	2 1/2	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08112	1	BRB-221178P	25	2 3/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08114	1	BRB-221181P	10	3	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08116	1	BRB-221184P	10	3 1/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08118	1	BRB-221187P	10	3 1/2	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08117	1	BRB-221190P	10	3 3/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08120	1	BRB-221193P	10	4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08119	1	BRB-221196P	10	4 1/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08122	1	BRB-221199P	10	4 1/2	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08121	1	BRB-221202P	10	4 3/4	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08124	1	BRB-221205P	10	5	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08123	1	BRB-221208P	10	5 1/2	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08125	1	BRB-221211P	10	6	3/8	3/4	1/2-13	5/8	7/8	5/16
HK-08126	1	BRB-221214P	10	1 1/2	1/2	7/8	5/8-11	3/4	1	3/8
HK-08128	1	BRB-221217P	10	1 3/4	1/2	7/8	5/8-11	3/4	1	3/8
HK-08130	1	BRB-221220P	10	2	1/2	7/8	5/8-11	3/4	1	3/8
HK-08132	1	BRB-221223P	10	2 1/4	1/2	7/8	5/8-11	3/4	1	3/8
HK-08134	1	BRB-221226P	10	2 1/2	1/2	7/8	5/8-11	3/4	1	3/8
HK-08136	1	BRB-221229P	10	2 3/4	1/2	7/8	5/8-11	3/4	1	3/8
HK-08138	1	BRB-221232P	10	3	1/2	7/8	5/8-11	3/4	1	3/8
HK-08139	1	BRB-221235P	10	3 1/4	1/2	7/8	5/8-11	3/4	1	3/8
HK-08140	1	BRB-221238P	10	3 1/2	1/2	7/8	5/8-11	3/4	1	3/8
HK-08142	1	BRB-221244P	10	4	1/2	7/8	5/8-11	3/4	1	3/8
HK-08143	1	BRB-221246P	10	4 1/4	1/2	7/8	5/8-11	3/4	1	3/8
HK-08144	1	BRB-221250P	10	4 1/2	1/2	7/8	5/8-11	3/4	1	3/8
HK-08145	1	BRB-221252P	10	4 3/4	1/2	7/8	5/8-11	3/4	1	3/8
HK-08146	1	BRB-221256P	10	5	1/2	7/8	5/8-11	3/4	1	3/8
HK-08148	1	BRB-221259P	10	5 1/2	1/2	7/8	5/8-11	3/4	1	3/8
HK-08150	1	BRB-221262P	10	6	1/2	7/8	5/8-11	3/4	1	3/8



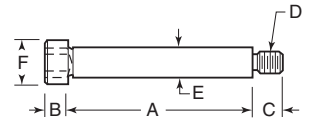
Slotted Head Shoulder Screw



Made of Zinc Plated or Stainless Steel

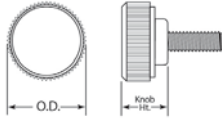
Steel Zinc		Stainless						Pack Qty.	
Item No.	Item No.	A	B	C	D	E	F		G
RAF-7001-S-12	RAF-7001-SS	.250	.125	4-40	.125	.156	.125	.406	1
RAF-7002-S-12	RAF-7002-SS	.250	.187	4-40	.125	.156	.125	.468	1
RAF-7003-S-12	RAF-7003-SS	.250	.250	4-40	.125	.156	.125	.531	1
RAF-7004-S-12	RAF-7004-SS	.250	.312	4-40	.125	.156	.125	.593	1
RAF-7005-S-12	RAF-7005-SS	.250	.375	4-40	.125	.156	.125	.656	1
RAF-7006-S-12	RAF-7006-SS	.250	.438	4-40	.125	.156	.125	.719	1
RAF-7007-S-12	RAF-7007-SS	.250	.500	4-40	.125	.156	.125	.781	1
RAF-7008-S-12	RAF-7008-SS	.281	.125	6-32	.125	.188	.156	.438	1
RAF-7009-S-12	RAF-7009-SS	.281	.188	6-32	.125	.188	.156	.500	1
RAF-7010-S-12	RAF-7010-SS	.281	.250	6-32	.125	.188	.156	.563	1
RAF-7011-S-12	RAF-7011-SS	.281	.313	6-32	.125	.188	.156	.625	1
RAF-7012-S-12	RAF-7012-SS	.281	.375	6-32	.125	.188	.156	.688	1
RAF-7013-S-12	RAF-7013-SS	.281	.438	6-32	.125	.188	.156	.750	1
RAF-7014-S-12	RAF-7014-SS	.281	.500	6-32	.125	.188	.156	.813	1
RAF-7019-S-12	RAF-7019-SS	.313	.125	8-32	.156	.188	.187	.469	1
RAF-7020-S-12	RAF-7020-SS	.313	.188	8-32	.156	.188	.187	.531	1
RAF-7021-S-12	RAF-7021-SS	.313	.250	8-32	.156	.188	.187	.594	1
RAF-7022-S-12	RAF-7022-SS	.313	.313	8-32	.156	.188	.187	.656	1
RAF-7023-S-12	RAF-7023-SS	.313	.375	8-32	.156	.188	.187	.719	1
RAF-7024-S-12	RAF-7024-SS	.313	.438	8-32	.156	.188	.187	.781	1
RAF-7025-S-12	RAF-7025-SS	.313	.500	8-32	.156	.188	.187	.844	1
RAF-7026-S-12	RAF-7026-SS	.313	.5625	8-32	.156	.188	.187	.906	1
RAF-7027-S-12	RAF-7027-SS	.313	.625	8-32	.156	.188	.187	.969	1
RAF-7028-S-12	RAF-7028-SS	.313	.688	8-32	.156	.188	.187	1.031	1
RAF-7029-S-12	RAF-7029-SS	.313	.750	8-32	.156	.188	.187	1.094	1
RAF-7030-S-12	RAF-7030-SS	.313	.875	8-32	.156	.188	.187	1.219	1
RAF-7031-S-12	RAF-7031-SS	.313	1.000	8-32	.156	.188	.187	1.344	1
RAF-7032-S-12	RAF-7032-SS	.313	1.250	8-32	.156	.188	.187	1.594	1
RAF-7033-S-12	RAF-7033-SS	.313	1.375	8-32	.156	.188	.187	1.718	1
RAF-7034-S-12	RAF-7034-SS	.313	1.500	8-32	.156	.188	.187	1.844	1
RAF-7035-S-12	RAF-7035-SS	.375	.125	10-32	.188	.250	.250	.563	1
RAF-7036-S-12	RAF-7036-SS	.375	.188	10-32	.188	.250	.250	.625	1
RAF-7037-S-12	RAF-7037-SS	.375	.250	10-32	.188	.250	.250	.688	1
RAF-7038-S-12	RAF-7038-SS	.375	.313	10-32	.188	.250	.250	.750	1
RAF-7039-S-12	RAF-7039-SS	.375	.375	10-32	.188	.250	.250	.813	1
RAF-7040-S-12	RAF-7040-SS	.375	.438	10-32	.188	.250	.250	.875	1
RAF-7041-S-12	RAF-7041-SS	.375	.500	10-32	.188	.250	.250	.938	1
RAF-7042-S-12	RAF-7042-SS	.375	.5625	10-32	.188	.250	.250	1.000	1
RAF-7043-S-12	RAF-7043-SS	.375	.625	10-32	.188	.250	.250	1.063	1
RAF-7044-S-12	RAF-7044-SS	.375	.688	10-32	.188	.250	.250	1.125	1
RAF-7045-S-12	RAF-7045-SS	.375	.750	10-32	.188	.250	.250	1.1875	1
RAF-7046-S-12	RAF-7046-SS	.375	.875	10-32	.188	.250	.250	1.3125	1
RAF-7047-S-12	RAF-7047-SS	.375	1.000	10-32	.188	.250	.250	1.4375	1
RAF-7048-S-12	RAF-7048-SS	.375	1.250	10-32	.188	.250	.250	1.6875	1
RAF-7049-S-12	RAF-7049-SS	.375	1.375	10-32	.188	.250	.250	1.8125	1
RAF-7050-S-12	RAF-7050-SS	.375	1.500	10-32	.188	.250	.250	1.9375	1
RAF-7051-S-12	RAF-7051-SS	.438	.250	1/4-20	.219	.375	.312	.844	1
RAF-7052-S-12	RAF-7052-SS	.438	.313	1/4-20	.219	.375	.312	.906	1
RAF-7053-S-12	RAF-7053-SS	.438	.375	1/4-20	.219	.375	.312	.969	1
RAF-7054-S-12	RAF-7054-SS	.438	.500	1/4-20	.219	.375	.312	1.094	1
RAF-7055-S-12	RAF-7055-SS	.438	.625	1/4-20	.219	.375	.312	1.219	1
RAF-7056-S-12	RAF-7056-SS	.438	.750	1/4-20	.219	.375	.312	1.344	1
RAF-7059-S-12	RAF-7059-SS	.500	.250	1/4-20	.219	.375	.375	.844	1
RAF-7060-S-12	RAF-7060-SS	.500	.313	1/4-20	.219	.375	.375	.906	1
RAF-7061-S-12	RAF-7061-SS	.500	.375	1/4-20	.219	.375	.375	.969	1
RAF-7062-S-12	RAF-7062-SS	.500	.500	1/4-20	.219	.375	.375	1.094	1
RAF-7063-S-12	RAF-7063-SS	.500	.625	1/4-20	.219	.375	.375	1.219	1
RAF-7064-S-12	RAF-7064-SS	.500	.750	1/4-20	.219	.375	.375	1.344	1
RAF-7067-S-12	RAF-7067-SS	.500	.250	1/8-18	.219	.438	.375	.906	1
RAF-7068-S-12	RAF-7068-SS	.500	.313	1/8-18	.219	.438	.375	.969	1
RAF-7069-S-12	RAF-7069-SS	.500	.375	1/8-18	.219	.438	.375	1.031	1
RAF-7070-S-12	RAF-7070-SS	.500	.500	1/8-18	.219	.438	.375	1.156	1
RAF-7071-S-12	RAF-7071-SS	.500	.625	1/8-18	.219	.438	.375	1.281	1
RAF-7078-S-12	RAF-7078-SS	.625	.500	1/8-16	.250	.500	.500	1.250	1
RAF-7079-S-12	RAF-7079-SS	.625	.625	1/8-16	.250	.500	.500	1.375	1
RAF-7080-S-12	RAF-7080-SS	.625	.750	1/8-16	.250	.500	.500	1.500	1
RAF-7081-S-12	RAF-7081-SS	.625	.875	1/8-16	.250	.500	.500	1.625	1
RAF-7082-S-12	RAF-7082-SS	.625	1.000	1/8-16	.250	.500	.500	1.750	1

Socket Head Shoulder Screw



Made of Zinc Plated or Stainless Steel

Steel		Stainless						Pack Qty.
Item No.	Item No.	A	B	C	D	E	F	
RPH-6901S-12	RPH-6901SS	.124	.125	.156	4-40	.125	.250	1
RPH-6902S-12	RPH-6902SS	.124	.125	.156	4-40	.187	.250	1
RPH-6903S-12	RPH-6903SS	.124	.125	.156	4-40	.250	.250	1
RPH-6904S-12	RPH-6904SS	.124	.125	.156	4-40	.312	.250	1
RPH-6905S-12	RPH-6905SS	.124	.125	.156	4-40	.375	.250	1
RPH-6906S-12	RPH-6906SS	.124	.125	.156	4-40	.438	.250	1
RPH-6907S-12	RPH-6907SS	.124	.125	.156	4-40	.500	.250	1
RPH-6908S-12	RPH-6908SS	.156	.125	.188	6-32	.125	.281	1
RPH-6909S-12	RPH-6909SS	.156	.125	.188	6-32	.188	.281	1
RPH-6910S-12	RPH-6910SS	.156	.125	.188	6-32	.250	.281	1
RPH-6911S-12	RPH-6911SS	.156	.125	.188	6-32	.312	.281	1
RPH-6912S-12	RPH-6912SS	.156	.125	.188	6-32	.375	.281	1
RPH-6913S-12	RPH-6913SS	.156	.125	.188	6-32	.438	.281	1
RPH-6914S-12	RPH-6914SS	.156	.125	.188	6-32	.500	.281	1
RPH-6919S-12	RPH-6919SS	.187	.156	.188	8-32	.125	.312	1
RPH-6920S-12	RPH-6920SS	.187	.156	.188	8-32	.188	.312	1
RPH-6921S-12	RPH-6921SS	.187	.156	.188	8-32	.250	.312	1
RPH-6922S-12	RPH-6922SS	.187	.156	.188	8-32	.312	.312	1
RPH-6923S-12	RPH-6923SS	.187	.156	.188	8-32	.375	.312	1
RPH-6924S-12	RPH-6924SS	.187	.156	.188	8-32	.438	.312	1
RPH-6925S-12	RPH-6925SS	.187	.156	.188	8-32	.500	.312	1
RPH-6926S-12	RPH-6926SS	.187	.156	.188	8-32	.562	.312	1
RPH-6927S-12	RPH-6927SS	.187	.156	.188	8-32	.625	.312	1
RPH-6928S-12	RPH-6928SS	.187	.156	.188	8-32	.688	.312	1
RPH-6929S-12	RPH-6929SS	.187	.156	.188	8-32	.750	.312	1
RPH-6930S-12	RPH-6930SS	.187	.156	.188	8-32	.875	.312	1
RPH-6931S-12	RPH-6931SS	.187	.156	.188	8-32	1.000	.312	1
RPH-6932S-12	RPH-6932SS	.187	.156	.188	8-32	1.250	.312	1
RPH-6933S-12	RPH-6933SS	.187	.156	.188	8-32	1.375	.312	1
RPH-6934S-12	RPH-6934SS	.187	.156	.188	8-32	1.500	.312	1
RPH-6935S-12	RPH-6935SS	.250	.188	.250	10-32	.125	.375	1
RPH-6936S-12	RPH-6936SS	.250	.188	.250	10-32	.188	.375	1
RPH-6937S-12	RPH-6937SS	.250	.188	.250	10-32	.250	.375	1
RPH-6938S-12	RPH-6938SS	.250	.188	.250	10-32	.312	.375	1
RPH-6939S-12	RPH-6939SS	.250	.188	.250	10-32	.375	.375	1
RPH-6940S-12	RPH-6940SS	.250	.188	.250	10-32	.438	.375	1
RPH-6941S-12	RPH-6941SS	.250	.188	.250	10-32	.500	.375	1
RPH-6942S-12	RPH-6942SS	.250	.188	.250	10-32	.562	.375	1
RPH-6943S-12	RPH-6943SS	.250	.188	.250	10-32	.625	.375	1
RPH-6944S-12	RPH-6944SS	.250	.188	.250	10-32	.688	.375	1
RPH-6945S-12	RPH-6945SS	.250	.188	.250	10-32	.750	.375	1
RPH-6946S-12	RPH-6946SS	.250	.188	.250	10-32	.875	.375	1
RPH-6947S-12	RPH-6947SS	.250	.188	.250	10-32	1.000	.375	1
RPH-6948S-12	RPH-6948SS	.250	.188	.250	10-32	1.250	.375	1
RPH-6949S-12	RPH-6949SS	.250	.188	.250	10-32	1.375	.375	1
RPH-6950S-12	RPH-6950SS	.250	.188	.250	10-32	1.500	.375	1
RPH-6951S-12	RPH-6951SS	.312	.219	.375	1/4-20	.250	.438	1
RPH-6952S-12	RPH-6952SS	.312	.219	.375	1/4-20	.312	.438	1
RPH-6953S-12	RPH-6953SS	.312	.219	.375	1/4-20	.375	.438	1
RPH-6954S-12	RPH-6954SS	.312	.219	.375	1/4-20	.500	.438	1
RPH-6955S-12	RPH-6955SS	.312	.219	.375	1/4-20	.625	.438	1
RPH-6956S-12	RPH-6956SS	.312	.219	.375	1/4-20	.750	.438	1
RPH-6959S-12	RPH-6959SS	.374	.219	.375	1/4-20	.250	.500	1
RPH-6960S-12	RPH-6960SS	.374	.219	.375	1/4-20	.312	.500	1
RPH-6961S-12	RPH-6961SS	.374	.219	.375	1			

TSK Series
Round Screw

Specifications:

- Material: Nylon over Zinc Plated Steel

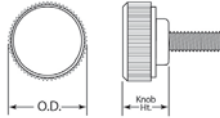
Features:

- Can be used as a thumb screw or a knob
- Pre-assembled version available to save time

Screw size	OD (in)	Knob Height (in)
#4	0.313	2.300
#6	0.375	2.900
#8	0.250	3.500
#10	0.656	4.500
1/4	1.000	5.750
5/16	1.000	7.250

Item No.	Thread	Length	Color	Pack Qty.
TSK005A	4-40	.250"	Black	50
TSK010A	4-40	.375"	Black	50
TSK015A	4-40	.500"	Black	50
TSK020A	6-32	.250"	Black	50
TSK025A	6-32	.375"	Black	50
TSK030A	6-32	.500"	Black	50
TSK035A	6-32	.750"	Black	50
TSK040A	8-32	.250"	Black	50
TSK045A	8-32	.375"	Black	50
TSK050A	8-32	.500"	Black	50
TSK055A	8-32	1.00"	Black	50

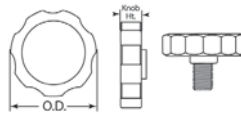
Item No.	Thread	Length	Color	Pack Qty.
TSK060A	10-32	.500"	Black	50
TSK065A	10-32	1.00"	Black	50
TSK070A	10-32	1.50"	Black	50
TSK075A	1/4-20	.500"	Black	50
TSK080A	1/4-20	.750"	Black	50
TSK085A	1/4-20	1.00"	Black	50
TSK090A	1/4-20	1.50"	Black	50
TSK095A	5/16-18	.500"	Black	50
TSK100A	5/16-18	.750"	Black	50
TSK105A	5/16-18	1.00"	Black	50
TSK110A	5/16-18	1.50"	Black	50

TSK Series
Round Screw Metric

Screw size	OD (mm)	Knob Height (mm)
M4	12.700	5.560
M5	16.600	6.350
M6	25.400	8.330

Item No.	Thread	Length	Color	Pack Qty.
TSK240A	M4	10mm	Black	50
TSK245A	M4	20mm	Black	50
TSK250A	M4	25mm	Black	50
TSK255A	M5	12mm	Black	50
TSK260A	M5	20mm	Black	50
TSK265A	M5	25mm	Black	50

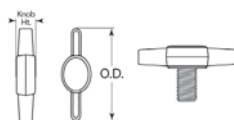
Item No.	Thread	Length	Color	Pack Qty.
TSK270A	M6	12mm	Black	50
TSK275A	M6	20mm	Black	50
TSK280A	M6	25mm	Black	50
TSK285A	M8	12mm	Black	50
TSK290A	M8	20mm	Black	50
TSK295A	M8	25mm	Black	50

TSK Series
Flowerette Screw

Screw size	OD (in)	Knob Height (in)
1/4	1.5	0.375
5/16	1.5	0.375
3/8	1.5	0.375

Item No.	Thread	Length	Color	Pack Qty.
TSK115A	1/4-20	.500"	Black	50
TSK120A	1/4-20	.750"	Black	50
TSK125A	1/4-20	1.00"	Black	50
TSK130A	1/4-20	1.50"	Black	50
TSK135A	5/16-18	.500"	Black	50
TSK140A	5/16-18	.750"	Black	50

Item No.	Thread	Length	Color	Pack Qty.
TSK145A	5/16-18	1.00"	Black	50
TSK150A	5/16-18	1.50"	Black	50
TSK155A	3/8-16	.750"	Black	50
TSK160A	3/8-16	1.00"	Black	50
TSK165A	3/8-16	1.50"	Black	50

TSK Series
Wing Screw

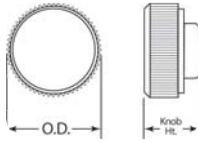
Screw size	OD (in)	Knob Height (in)
#10	1.000	0.250
1/4	1.266	0.344
5/16	1.500	0.406
3/8	1.781	0.484

Item No.	Thread	Length	Color	Pack Qty.
TSK170A	10-32	.500"	Black	50
TSK175A	10-32	1.00"	Black	50
TSK180A	10-32	1.50"	Black	50
TSK185A	1/4-20	.500"	Black	50
TSK190A	1/4-20	.750"	Black	50
TSK195A	1/4-20	1.00"	Black	50
TSK200A	1/4-20	1.50"	Black	50

Item No.	Thread	Length	Color	Pack Qty.
TSK205A	5/16-18	.500"	Black	50
TSK210A	5/16-18	.750"	Black	50
TSK215A	5/16-18	1.00"	Black	50
TSK220A	5/16-18	1.50"	Black	50
TSK225A	3/8-16	.750"	Black	50
TSK230A	3/8-16	1.00"	Black	50
TSK235A	3/8-16	1.50"	Black	50



**TSK Series
Round Screw**



Specifications:

- Material: Acetal

Features:

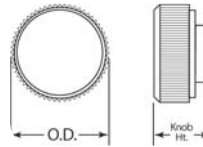
- Can be used as a thumb screw or a knob
- Caps available for use with any length screw
- Multiple colors available

Screw size	OD (in)	Knob Height (In)
#4	0.312	0.172
#6	0.375	0.203
#8	0.250	0.219
#10	0.656	0.250
1/4	1.000	0.328
5/16	1.000	0.391

Item No.	For Screw	Color	Pack Qty.
TSK300A	4	Black	100
TSK305A	6	Black	100
TSK310A	8	Black	100
TSK315A	10	Black	100
TSK320A	1/4	Black	100
TSK325A	5/16	Black	100
TSK330A	4	Blue	100
TSK335A	6	Blue	100
TSK340A	8	Blue	100

Item No.	For Screw	Color	Pack Qty.
TSK345A	10	Blue	100
TSK350A	1/4	Blue	100
TSK355A	5/16	Blue	100
TSK360A	4	Red	100
TSK365A	6	Red	100
TSK370A	8	Red	100
TSK375A	10	Red	100
TSK380A	1/4	Red	100
TSK385A	5/16	Red	100

**TSK Series
Round Screw Metric**

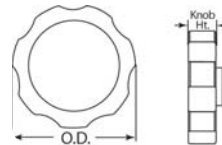


Screw size	OD (mm)	Knob Height (mm)
M4	12.700	5.560
M5	16.600	6.350
M6	25.400	8.330

Item No.	For Screw	Color	Pack Qty.
TSK390A	M4	Black	100
TSK395A	M5	Black	100
TSK400A	M6	Black	100
TSK405A	M4	Blue	100
TSK410A	M5	Blue	100

Item No.	For Screw	Color	Pack Qty.
TSK415A	M6	Blue	100
TSK420A	M4	Red	100
TSK425A	M5	Red	100
TSK430A	M6	Red	100

**TSK Series
Flowerette Screw**

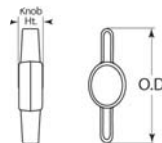


Screw size	OD (in)	Knob Height (In)
1/4	1.500	0.375
5/16	1.500	0.375
3/8	1.500	0.375

Item No.	For Screw	Color	Pack Qty.
TSK435A	1/4	Black	100
TSK440A	5/16	Black	100
TSK445A	3/8	Black	100
TSK450A	1/4	Blue	100
TSK455A	5/16	Blue	100

Item No.	For Screw	Color	Pack Qty.
TSK460A	3/8	Blue	100
TSK465A	1/4	Red	100
TSK470A	5/16	Red	100
TSK475A	3/8	Red	100

**TSK Series
Wing Screw**



Screw size	OD (in)	Knob Height (In)
#10	1.000	0.250
1/4	1.266	0.344
5/16	1.500	0.406
3/8	1.781	0.484

Item No.	For Screw	Color	Pack Qty.
TSK480A	10	Black	100
TSK485A	1/4	Black	100
TSK490A	5/16	Black	100
TSK495A	3/8	Black	100
TSK500A	10	Blue	100
TSK505A	1/4	Blue	100

Item No.	For Screw	Color	Pack Qty.
TSK510A	5/16	Blue	100
TSK515A	3/8	Blue	100
TSK520A	10	Red	100
TSK525A	1/4	Red	100
TSK530A	5/16	Red	100
TSK535A	3/8	Red	100



Thumb and Wing Screws
Malleable Iron



Style A
(No Shoulder)



Style B



Style C



Style D

These thumb and wing screws are made from malleable iron and have a tumbled finish. Used for fastening, construction of jig and fixtures, tooling and special applications. Style A does not have a shoulder.

Item No.	Thread	Length Under Head	Width of Head	Height of Head	Pack Qty.	Item No.	Thread	Length Under Head	Width of Head	Height of Head	Dia. of Shoulder	Pack Qty.	Item No.	Thread	Length Under Head	Width of Head	Height of Head	Dia. of Shoulder	Pack Qty.
Style A						Style A						Style C							
MIT-1	10-24	1/2	7/8	5/8	1	MIT-22	3/8-16	1 1/4	1 1/8	3/4	—	1	MIT-85	1/4-20	1/2	1 1/4	1 3/16	9/16	1
MIT-2	10-24	3/4	7/8	5/8	1	MIT-23	3/8-16	1 1/2	1 1/8	3/4	—	1	MIT-86	1/4-20	3/4	1 1/4	1 3/16	9/16	1
MIT-3	10-24	1	7/8	5/8	1	MIT-27	1/2-13	1	1 5/16	1 5/16	—	1	MIT-87	1/4-20	1	1 1/4	1 3/16	9/16	1
MIT-5	10-24	1 1/2	7/8	5/8	1	MIT-28	1/2-13	1 1/4	1 5/16	1 5/16	—	1	MIT-88	1/4-20	1 1/2	1 1/4	1 3/16	9/16	1
MIT-6	1/4-20	1/2	7/8	5/8	1	MIT-29	1/2-13	1 1/2	1 5/16	1 5/16	—	1	MIT-89	1/4-20	2	1 1/4	1 3/16	9/16	1
MIT-7	1/4-20	3/4	7/8	5/8	1	MIT-31	1/2-13	2 1/2	1 5/16	1 5/16	—	1	MIT-99	3/8-16	1	1 7/16	1	3/4	1
MIT-8	1/4-20	1	7/8	5/8	1	Style B						Style D							
MIT-9	1/4-20	1 1/4	7/8	5/8	1	MIT-40	1/4-20	1/2	1 3/16	5/8	7/16	1	MIT-65	5/16-18	1/2	1 3/4	3/4	5/8	1
MIT-10	1/4-20	1 1/2	7/8	5/8	1	MIT-41	1/4-20	3/4	1 3/16	5/8	7/16	1	MIT-66	5/16-18	3/4	1 3/4	3/4	5/8	1
MIT-11	1/4-20	2	7/8	5/8	1	MIT-42	1/4-20	1	1 3/16	5/8	7/16	1	MIT-67	5/16-18	1	1 3/4	3/4	5/8	1
MIT-12	5/16-18	1/2	1	1 1/16	1	MIT-43	1/4-20	1 1/2	1 3/16	5/8	7/16	1	MIT-68	5/16-18	1 1/2	1 3/4	3/4	5/8	1
MIT-13	5/16-18	3/4	1	1 1/16	1	MIT-44	1/4-20	2	1 3/16	5/8	7/16	1	MIT-72	3/8-16	3/4	1 1/16	7/8	5/8	1
MIT-14	5/16-18	1	1	1 1/16	1	MIT-46	5/16-18	3/4	1	1 3/16	9/16	1	MIT-73	3/8-16	1	1 1/16	7/8	5/8	1
MIT-15	5/16-18	1 1/4	1	1 1/16	1	MIT-48	5/16-18	1 1/2	1	1 3/16	9/16	1	MIT-74	3/8-16	1 1/2	1 1/16	7/8	5/8	1
MIT-16	5/16-18	1 1/2	1	1 1/16	1	MIT-51	3/8-16	1/2	1 1/4	7/8	5/8	1	MIT-81	1/2-13	3	2 1/4	1	3/4	1
MIT-17	5/16-18	2	1	1 1/16	1	MIT-53	3/8-16	1	1 1/4	7/8	5/8	1							
MIT-20	3/8-16	3/4	1 1/16	3/4	1	MIT-55	3/8-16	2	1 1/4	7/8	5/8	1							
MIT-21	3/8-16	1	1 1/16	3/4	1	MIT-57	1/2-13	3/4	1 1/16	1 1/8	3/4	1							

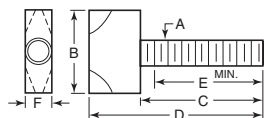
Thumb Screws
Nylon Tipped



Stamped "P" thumb screw.
Low carbon steel, zinc plated.

Item No.	Thread	Tip Dia.	Tip Lgth.	Pack Qty.	Item No.	Thread	Tip Dia.	Tip Lgth.	Pack Qty.
TNT-15	8-32 x 1/2	3/32	3/64	1	TNT-45	1/4-20 x 3/4	1/8	1/16	1
TNT-20	8-32 x 3/4	3/32	3/64	1	TNT-50	1/4-20 x 1	1/8	1/16	1
TNT-25	10-32 x 1/2	3/32	3/64	1	TNT-55	5/16-18 x 1/2	3/16	3/32	1
TNT-30	10-32 x 3/4	3/32	3/64	1	TNT-60	5/16-18 x 3/4	3/16	3/32	1
TNT-35	10-32 x 1	3/32	3/64	1	TNT-70	3/8-16 x 1	3/16	3/32	1
TNT-40	1/4-20 x 1/2	1/8	1/16	1	TNT-75	3/8-16 x 1 1/2	3/16	3/32	1

Thumb Screws
Quarter Turn Screws

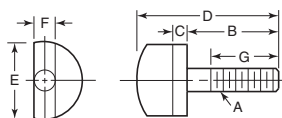


Available in unhardened and hardened steel and stainless steel. Steel have a black oxide finish. Hardened are case hardened .003"/.005" deep. Stainless are made from Type 303 stainless steel.

Item No.	Unhardened		Hardened		Stainless		A	B	C	D	E	F	Pack Qty.
	Item No.	Item No.	Item No.	Item No.									
QT-0	QTH-0	—	10-24	1/2	1	1 1/2	7/8	3/16	1				
QT-00	QTH-00	QT-00S*	10-32	1/2	1	1 1/2	7/8	3/16	1				
QTL-00	QTLH-00	QTL-00S*	10-32	1/2	1	2	1 3/8	3/16	1				
QT-1	QTH-1	QT-1S	1/4-20	3/4	1 1/4	1 7/8	1	1/4	1				
QTL-1	QTLH-1	QTL-1S	1/4-20	3/4	1 3/4	2 3/8	1 1/2	1/4	1				
QT-2	QTH-2	QT-2S	5/16-18	1	1 1/2	2 1/4	1 3/4	5/16	1				
—	QTLH-2	—	5/16-18	1	2	2 3/4	1 3/4	5/16	1				
QT-3	QTH-3	QT-3S	3/8-16	1	1 1/2	2 1/2	1 3/4	3/8	1				
QTL-3	QTLH-3	—	3/8-16	1	2	3	1 3/4	3/8	1				
QT-4	QTH-4	—	1/2-13	1 1/4	1 3/4	2 3/4	1 1/2	1/2	1				
—	QTLH-4	—	1/2-13	1 1/4	2 1/4	3 1/4	2	1/2	1				

*B is 3/4" on stainless

Thumb Screws
Half Turn Screws



A quick locking tool for leaf and jig plates. Screw shoulder locks or unlocks plate when screw is rotated one-half turn in corresponding direction. Black oxide finish.

Item No.	A	B	C	D	E	F	G	Pack Qty.
HTS-700	10-32	1	3/16	1 1/16	3/4	3/16	7/8	1
HTS-705	1/4-20	1 1/4	3/16	2	3/4	1/4	1	1
HTS-710	5/16-18	1 1/4	3/16	2 1/16	1	5/16	1	1
HTS-715	3/8-16	1 3/4	1/4	2 1/16	1 1/16	3/8	1 1/2	1
HTS-720	1/2-13	1 3/4	1/4	2 3/4	1 1/4	1/2	1 1/2	1



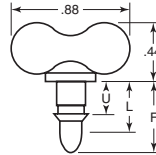
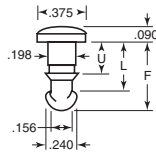
Studs



Oval Slotted



Wing Head



To select correct fastener select receptacle below. Total your material thickness for outer and inner panels, select proper stud. Receptacles and retainers are required and must be purchased separately.

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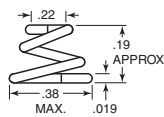
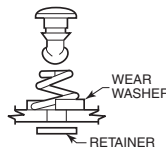
Oval Slotted - Stainless		Wing Head - Steel		Total Material Thickness Min.	Total Material Thickness Max.	U	L	F	Pack Qty.
Item No.	Southco	Item No.	Southco						
SC-8231	82-11-100-20	SC-8291	82-12-100-16	.090	.109	.127	.245	.395	1
SC-8234	82-11-160-20	—	—	.150	.169	.187	.305	.455	1
SC-8235	82-11-180-20	SC-8295	82-12-180-16	.170	.189	.207	.325	.475	1
—	—	SC-8296	82-12-200-16	.190	.209	.227	.345	.495	1
SC-8237	82-11-220-20	—	—	.210	.229	.247	.365	.515	1
—	—	SC-8298	82-12-240-16	.230	.249	.267	.385	.535	1
SC-8239	82-11-260-20	SC-8299	82-12-260-16	.250	.269	.287	.405	.555	1
SC-8210*	82-11-280-16	—	—	.270	.289	.307	.425	.575	1
SC-8241	82-11-300-20	—	—	.290	.309	.327	.445	.595	1
—	—	SC-8302	82-12-320-16	.310	.329	.347	.465	.615	1
SC-8225*	82-11-580-16	—	—	.570	.589	.607	.725	.875	1

*Zinc plated steel. Bright chromate plus sealer.

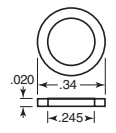
Ejector Springs and Washers

When using a stud ejector (spring and washer), add .04" to your outer panel thickness or total material thickness. When using just a wear washer, add .02". Spring is Type 302 passivated stainless steel. Washers are nylon. Cupped washers are available either black or white.

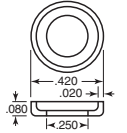
Item No.	Southco	Description	Color	Pack Qty.
SC-43	43-13-1-24/5	Ejector Spring	—	1
SC-833	82-46-103-39	Flat Washer	White	1
SC-834	82-46-101-41	Cupped Washer	Black	1
SC-835	82-46-101-39	Cupped Washer	White	1



Ejector Spring



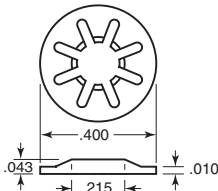
Flat Washer



Cupped Washer

southco®

Retainers



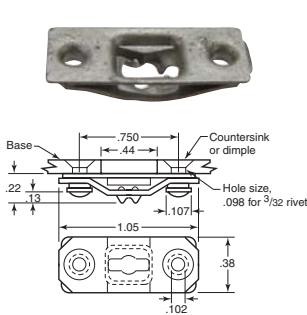
Retainer Installation Tool

Stainless steel retainer used to hold stud in place when not latched.

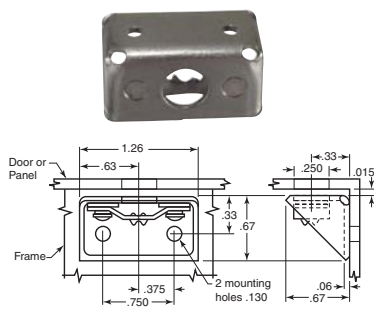
Item No.	Southco	Description	Material	Pack Qty.
SC-829	82-32-201-20	Retainer	Stainless	1
SC-820	82-0-22542-11	Retainer Installation Tool	—	1

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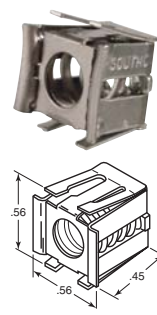
Receptacles



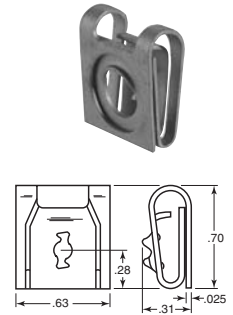
Rivet or Weld Style



Side Mount



Snap-In



Clip-On

Made of 1064 steel dactroized, with the exception of SC-823 and SC-828 which are stainless steel. Installation tools available to aid in installation of snap-in and clip-on receptacles and retainers.

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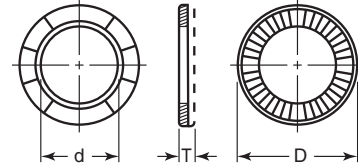
Rivet or Weld Style			Snap-in and Clip-on Receptacles			
Item No.	Southco	Description	Item No.	Southco	Description	Pack Qty.
SC-821	82-35-302-15	Rivet-On w/Base	SC-826	82-35-309-56	Snap-In	1
SC-822	82-35-295-15	Rivet-On w/No Base	SC-827	82-47-113-15	Clip-On	1
SC-823	82-35-295-20	Rivet-On w/No Base	SC-828	82-47-113-20	Clip-On	1
SC-824	82-35-303-15	Weld-On	—	—	—	1
SC-825*	82-45-101-15	Side-Mount	—	—	—	1

*Add .06 to total panel thickness when selecting stud



This bolt securing system solves the problem of bolt loosening and fastener failure. By using a pair of washers, NORD-LOCK maintains tension on the bolt or nut to prevent loosening caused by vibration and dynamic loads. Pre-assembled with cam faces together and radial teeth gripping the mating surfaces, the lead angle of cams is greater than the thread pitch, preventing the bolt or nut from turning. If the bolt attempts to loosen, a wedge action is produced and the preload is maintained. Standard or metric sizes from #5 to 1.5 inch. Carbon steel has corrosion resistant zinc flake coating, effective with standard or high grade bolts.

Vibration Proof Washers
Zinc Plated Steel



Zinc Plated Steel Box		Zinc Plated Steel Blister		Bolt Size	Bolt Size	d	d	D	D	T	T
Item No.	Item No.	Inch	Metric	Inch	Metric	I.D. Inch	I.D. Metric	O.D. Inch	O.D. Metric	Thickness Inch	Thickness Metric
NL-200	200	NL-248BP	20	#5	M3	.13	3.4	.28	7.0	.07	1.8
NL-201	200	NL-249BP	20	#6	M3.5	.15	3.9	.30	7.6	.07	1.8
NL-202	200	NL-250BP	20	#6	M3.5	.15	3.9	.35	9.0	.07	1.8
NL-203	200	NL-251BP	20	#8	M4	.17	4.4	.30	7.6	.07	1.8
NL-204	200	NL-252BP	20	#8	M4	.17	4.4	.35	9.0	.07	1.8
NL-205	200	NL-253BP	20	#10	M5	.21	5.4	.35	9.0	.07	1.8
NL-206	200	NL-254BP	20	#10	M5	.21	5.4	.43	10.8	.07	1.8
NL-207	200	NL-255BP	20	—	M6	—	6.5	—	10.8	—	1.8
NL-208	200	NL-256BP	20	—	M6	—	6.5	—	13.5	—	2.5
NL-209	200	NL-257BP	20	1/4	—	.28	7.2	.45	11.5	.07	1.8
NL-210	200	NL-258BP	20	1/4	—	.28	7.2	.53	13.5	.10	2.5
NL-211	200	NL-259BP	20	3/16	M8	.34	8.7	.53	13.5	.10	2.5
NL-212	200	NL-260BP	20	3/16	M8	.34	8.7	.65	16.6	.10	2.5
NL-213	200	NL-261BP	20	3/8	—	.41	10.3	.65	16.6	.10	2.5
NL-214	200	NL-262BP	10	3/8	—	.41	10.3	.83	21.0	.10	2.5
NL-215	200	NL-263BP	20	—	M10	—	10.7	—	16.6	—	2.5
NL-216	200	NL-263BP	10	—	M10	—	10.7	—	21.0	—	2.5
NL-217	200	NL-265BP	10	7/16	M11	.45	11.4	.73	18.5	.10	2.5
NL-218	200	NL-266BP	10	—	M12	—	13.0	—	19.5	—	2.5
NL-219	100	NL-267BP	8	—	M12	—	13.0	—	25.4	—	3.4
NL-220	200	NL-268BP	10	1/2	—	.53	13.5	.77	19.5	.10	2.5
NL-221	100	NL-269BP	8	—	—	.53	13.5	1.00	25.4	.13	3.4
NL-222	100	NL-270BP	10	3/16	M14	.60	15.2	.91	23.0	.13	3.4
NL-223	100	NL-271BP	4	3/16	M14	.60	15.2	1.21	30.7	.13	3.4
NL-224	100	NL-272BP	8	3/8	M16	.67	17.0	1.00	25.4	.13	3.4
NL-225	100	NL-273BP	4	3/8	M16	.67	17.0	1.21	30.7	.13	3.4
NL-226	100	NL-274BP	4	—	M18	—	19.5	—	29.0	—	3.4
NL-227	100	NL-275BP	2	—	M18	—	19.5	—	34.5	—	3.4
NL-228	100	NL-276BP	4	3/4	—	.79	20.0	1.21	30.7	.13	3.4
NL-229	100	NL-277BP	2	3/4	—	.79	20.0	1.54	39.0	.13	3.4
NL-230	100	NL-278BP	4	—	M20	—	21.4	—	30.7	—	3.4
NL-231	100	NL-279BP	2	—	M20	—	21.4	—	39.0	—	3.4
NL-232	100	NL-280BP	2	7/8	M22	.92	23.4	1.36	34.5	.13	3.4
NL-233	50	NL-281BP	2	7/8	M22	.92	23.4	1.65	42.0	.18	4.6
NL-234	100	NL-282BP	2	—	M24	1.00	25.3	1.54	39.0	.13	3.4
NL-235	50	NL-283BP	2	—	M24	—	25.3	—	48.5	—	4.6
NL-236	100	NL-284BP	2	1	—	1.10	27.9	1.54	39.0	.13	3.4
NL-237	50	NL-285BP	1	1	—	1.10	27.9	1.91	48.5	.18	4.6
NL-238	50	NL-286BP	1	—	M27	—	28.4	—	42.0	—	6.6
—	—	NL-287BP	1	—	M27	—	28.4	—	48.5	—	6.6
NL-240	25	NL-288BP	1	1 1/8	M30	1.24	31.4	1.85	47.0	.26	6.6
NL-241	25	NL-289BP	1	1 1/8	M30	1.24	31.4	2.30	58.5	.26	6.6
NL-242	25	NL-290BP	1	1 1/4	M33	1.35	34.4	1.91	48.5	.26	6.6
NL-243	25	NL-291BP	1	1 1/4	M33	1.35	34.4	2.30	58.5	.26	6.6
NL-244	25	NL-292BP	1	1 3/8	M36	1.47	37.4	2.17	55.0	.26	6.6
NL-245	25	NL-293BP	1	1 3/8	M36	1.47	37.4	2.48	63.0	.26	6.6
NL-246	25	NL-294BP	1	1 1/2	M39	1.59	40.4	2.30	58.5	.26	6.6
NL-247	25	NL-295BP	1	—	M42	1.70	43.2	2.48	63.0	.26	6.6

Machinery Bushings

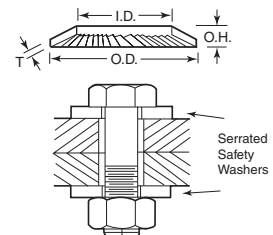


Used as spacers between pulleys, gears, etc.

Item No.	I.D.	O.D.	Thickness	Pack Qty.	Item No.	I.D.	O.D.	Thickness	Pack Qty.
WMG-200	9/16	1	18 GA	1	WMG-265	1 1/8	1 3/4	10 GA	1
WMG-205	5/8	1	18 GA	1	WMG-270	1 1/4	1 7/8	18 GA	1
WMG-210	3/4	1 1/4	18 GA	1	WMG-275	1 1/4	1 7/8	14 GA	1
WMG-215	3/4	1 1/4	14 GA	1	WMG-280	1 1/4	1 7/8	10 GA	1
WMG-220	3/4	1 1/4	10 GA	1	WMG-300	1 1/2	2 1/4	14 GA	1
WMG-225	7/8	1 3/8	18 GA	1	WMG-305	1 1/2	2 1/4	10 GA	1
WMG-235	7/8	1 3/8	10 GA	1	WMG-310	1 3/4	2 1/2	14 GA	1
WMG-240	1	1 1/2	18 GA	1	WMG-315	1 3/4	2 1/2	10 GA	1
WMG-245	1	1 1/2	14 GA	1	WMG-330	2	3	14 GA	1
WMG-250	1	1 1/2	10 GA	1	WMG-335	2	3	10 GA	1
WMG-255	1 1/8	1 3/4	18 GA	1	WMG-340	2 1/8	3 1/8	14 GA	1
WMG-260	1 1/8	1 3/4	14 GA	1	WMG-350	2 1/4	3 1/4	14 GA	1

Note: Thickness Equivalencies - 18 GA = .048", 14 = .075", 10 = .134".

Serrated Safety Washers



Securely fastens bolted joints. Resists tendency to loosen during vibration. Ideal for applications requiring maximum fatigue life. Uniform axial loading. Full compensation for movement due to thermal expansion and contraction. No significant damage to mating surfaces. Sold in box quantities of 100 only.

Item No.	Bolt Size Inch	Bolt Size mm	O.D.	I.D.	Thickness (T)	O.H.	Pack Qty.
SSW-4	4	5/16, #8, M4	.276	.169	.020	.039	100
SSW-5	5	3/16, #10, M5	.354	.209	.024	.043	100
SSW-6	6	M6	.394	.252	.028	.047	100
SSW-8	8	3/16, M8	.512	.331	.031	.055	100
SSW-10	10	3/8, M10	.630	.413	.039	.063	100
SSW-12	12	M12	.709	.512	.043	.067	100

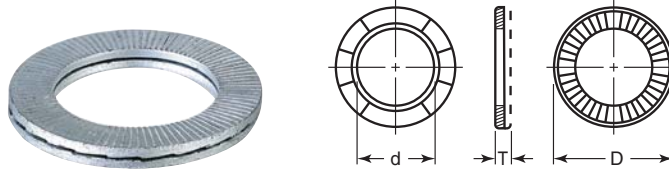
Note: Dimension values are inches.

VIBRATION-PROOF WASHERS



This bolt securing system solves the problem of bolt loosening and fastener failure. By using a pair of washers, NORD-LOCK maintains tension on the bolt or nut to prevent loosening caused by vibration and dynamic loads. Pre-assembled with cam faces together and radial teeth gripping the mating surfaces, the lead angle of cams is greater than the thread pitch, preventing the bolt or nut from turning. If the bolt attempts to loosen, a wedge action is produced and the preload is maintained. Standard or metric sizes from #5 to 1.5 inch. Stainless steel type 316, effective with standard or high grade bolts.

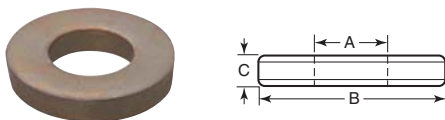
Vibration Proof Fasteners 316 Stainless Steel



316 Stainless Steel Box		316 Stainless Steel Blister		Bolt Size Inch	Bolt Size Metric	d I.D. Inch	d I.D. Metric	D O.D. Inch	D O.D. Metric	T Thickness Inch	T Thickness Metric
Item No.	Pack Qty.	Item No.	Pack Qty.								
NL-400	200	NL-446BP	10	#5	M3	.13	3.4	.28	7.0	.09	2.2
NL-401	200	NL-447BP	10	#6	M3.5	.15	3.9	.30	7.6	.09	2.2
NL-402	200	NL-448BP	10	#6	M3.5	.15	3.9	.35	9.0	.09	2.2
NL-403	200	NL-449BP	10	#8	M4	.17	4.4	.30	7.6	.09	2.2
NL-404	200	NL-450BP	10	#8	M4	.17	4.4	.35	9.0	.09	2.2
NL-406	200	NL-452BP	10	#10	M5	.21	5.4	.43	10.8	.09	2.2
NL-407	200	NL-453BP	10	—	M6	.26	6.5	.43	10.8	.09	2.2
NL-408	200	NL-454BP	10	—	M6	.26	6.5	.53	13.5	.09	2.2
NL-409	200	NL-455BP	10	1/4	—	.28	7.2	.45	11.5	.09	2.2
NL-405	200	NL-451BP	10	#10	M5	.21	5.4	.35	9.0	.09	2.2
NL-410	200	NL-456BP	10	1/4	—	.28	7.2	.53	13.5	.09	2.2
NL-411	200	NL-457BP	10	5/16	—	.34	8.7	.53	13.5	.09	2.2
NL-412	200	NL-458BP	10	5/16	—	.34	8.7	.65	16.6	.09	2.2
NL-413	200	NL-459BP	10	3/8	—	.41	10.3	.65	16.6	.09	2.2
NL-414	200	NL-460BP	6	3/8	—	.41	10.3	.83	21.0	.09	2.2
NL-415	200	NL-461BP	10	—	M10	.42	10.7	.65	16.6	.09	2.2
NL-416	200	NL-462BP	6	—	M10	.42	10.7	.83	21.0	.09	2.2
NL-417	200	NL-463BP	6	7/16	M11	.45	11.4	.73	18.5	.09	2.2
NL-418	200	NL-464BP	6	—	M12	.51	13.0	.77	19.5	.09	2.2
NL-419	100	NL-465BP	4	—	M12	.51	13.0	1.00	25.4	.13	3.2
NL-420	200	NL-466BP	6	1/2	—	.53	13.5	.77	19.5	.09	2.2
NL-421	100	NL-467BP	4	1/2	—	.53	13.5	1.00	25.4	.13	3.2
NL-422	100	NL-468BP	4	5/16	M14	.60	15.2	.91	23.0	.13	3.2
NL-423	100	NL-469BP	3	5/16	M14	.60	15.2	1.21	30.7	.13	3.2
NL-424	100	NL-470BP	4	5/8	M16	.67	17.0	1.00	25.4	.13	3.2
NL-425	100	NL-471BP	3	5/8	M16	.67	17.0	1.21	30.7	.13	3.2
NL-426	100	NL-472BP	3	—	M18	.77	19.5	1.14	29.0	.13	3.2
NL-427	100	NL-473BP	2	—	M18	.77	19.5	1.36	34.5	.13	3.2
NL-428	100	NL-474BP	3	3/4	—	.79	20.0	1.21	30.7	.13	3.2
NL-429	100	NL-475BP	2	3/4	—	.79	20.0	1.54	39.0	.13	3.2
NL-430	100	NL-476BP	3	—	M20	.84	21.4	1.21	30.7	.13	3.2
NL-431	100	NL-477BP	2	—	M20	.84	21.4	1.54	39.0	.13	3.2
NL-432	100	NL-478BP	2	7/8	M22	.92	23.4	1.36	34.5	.13	3.2
NL-433	50	NL-479BP	1	7/8	M22	.92	23.4	1.65	42.0	.13	3.2
NL-434	100	NL-480BP	2	—	M24	1.00	25.3	1.54	39.0	.13	3.2
NL-435	50	NL-481BP	1	—	M24	1.00	25.3	1.91	48.5	.13	3.2
NL-436	100	NL-482BP	2	1	—	1.10	27.9	1.54	39.0	.13	3.2
NL-437	50	NL-483BP	1	1	—	1.10	27.9	1.91	48.5	.13	3.2
NL-438	50	NL-484BP	1	—	M27	1.12	28.4	1.65	42.0	.27	6.8
NL-439	25	NL-485BP	1	—	M27	1.12	28.4	1.91	48.5	.27	6.8
NL-440	25	NL-486BP	1	1 1/8	M30	1.24	31.4	1.85	47.0	.27	6.8
NL-441	25	—	—	1 1/8	M30	1.24	31.4	2.30	58.5	.27	6.8
NL-442	25	NL-488BP	1	1 1/4	M33	1.35	34.4	1.91	48.5	.27	6.8
NL-443	25	NL-489BP	1	1 1/4	M36	1.47	37.4	2.17	55.0	.27	6.8
NL-444	25	NL-490BP	1	1 1/2	M39	1.59	40.4	2.30	58.5	.27	6.8
NL-445	25	—	—	—	M42	1.70	43.2	2.48	63.0	.27	6.8

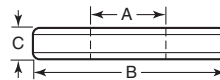
Used anywhere high strength and thick flat washers are needed. Perfect for use with grade 8 cap screws and socket cap screws. Each washer is marked with bolt size for easy identification. Made from medium carbon steel, through hardened to RC C43-49, zinc dichromate finish. All dimensions are minimum.

Steel Spacing Flat Washers High Strength Alloy



Item No.	Bolt Size	A	B	C	Pack Qty.	Item No.	Bolt Size	A	B	C	Pack Qty.
AMP-9270	1/4	.276	.620	.090	1	AMP-9276	5/8	.649	1.305	.206	1
AMP-9271	5/16	.339	.681	.090	1	AMP-9277	3/4	.808	1.454	.206	1
AMP-9272	3/8	.401	.805	.110	1	AMP-9278	7/8	.931	1.743	.235	1
AMP-9273	7/16	.464	.915	.110	1	AMP-9279	1	1.055	1.993	.235	1
AMP-9274	1/2	.526	1.055	.190	1	AMP-9281	1 1/4	1.360	2.468	.235	1
AMP-9275	5/8	.589	1.161	.168	1	AMP-9252	1 1/2	1.625	3.00	.250	1

Stainless Steel Finished Flat Washers



Manufactured from non-magnetic corrosion resistant 300 series stainless steel. Parallelism within .001".

Item No.	Bolt Size	A	B	C	Pack Qty.
AMP-20	#2	3/32	3/16	.028	1
AMP-25	#4	1/8	3/16	5/64	1
AMP-40	#6	5/32	3/8	5/64	1
AMP-45	#8	3/16	7/16	5/64	1
AMP-50	#8	11/64	3/8	1/16	1
AMP-55	#10	15/64	1/2	3/32	1
AMP-60	#10	3/16	7/16	5/64	1
AMP-65	1/4	9/32	5/8	1/8	1
AMP-70	1/4	9/32	1/2	5/64	1
AMP-75	5/16	11/32	3/4	1/8	1
AMP-80	5/16	11/32	5/8	3/32	1

Item No.	Bolt Size	A	B	C	Pack Qty.
AMP-85	3/8	13/32	3/4	3/32	1
AMP-90	3/8	13/32	13/16	1/8	1
AMP-95	3/8	13/32	7/8	1/8	1
AMP-100	3/8	13/32	1	1/8	1
AMP-110	7/16	15/32	1	1/8	1
AMP-115	1/2	17/32	1 1/8	1/8	1
AMP-120	5/8	21/32	1 1/2	1/8	1
AMP-125	3/4	25/32	1 3/4	1/8	1
AMP-130	3/4	25/32	1 5/8	5/32	1
AMP-140	1	1 1/32	2	9/16	1
AMP-150	1 1/4	1 3/32	2 1/2	9/32	1



SAE Flat Washers



Standard washers to provide the required seating surface under a bolt head. Zinc chromate finish. Meets or exceeds ASME/ANSI B18.22.1 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8071-007	#6	.156	.375	.049	100
ROC-8071-009	#8	.188	.438	.049	100
ROC-8071-011	#10	.29	.500	.049	100
ROC-8071-013	#12	.250	.562	.065	100
ROC-8071-029	1/4	.281	.625	.065	100
ROC-8071-030	5/16	.344	.688	.065	100
ROC-8071-031	3/8	.406	.812	.065	100
ROC-8071-032	7/16	.469	.922	.065	100
ROC-8071-033	1/2	.531	1.062	.095	100
ROC-8071-034	9/16	.594	1.156	.095	100
ROC-8071-035	5/8	.656	1.312	.095	100
ROC-8071-036	3/4	.812	1.469	.134	50
ROC-8071-037	7/8	.938	1.750	.134	50
ROC-8071-038	1	1.062	2.000	.134	50

USS Flat Washers



Standard washers to provide the required seating surface under a bolt head. Zinc chromate finish. Meets or exceeds ASME/ANSI B18.22.1 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8070-011	#10	.250	.562	.049	100
ROC-8070-029	1/4	.312	.734	.065	100
ROC-8070-030	5/16	.375	.875	.083	100
ROC-8070-031	3/8	.438	1.000	.083	100
ROC-8070-032	7/16	.500	1.250	.083	100
ROC-8070-033	1/2	.562	1.375	.109	100
ROC-8070-034	9/16	.625	1.469	.109	100
ROC-8070-035	5/8	.688	1.750	.134	100
ROC-8070-036	3/4	.812	2.000	.148	50
ROC-8070-037	7/8	.938	2.250	.165	50
ROC-8070-038	1	1.062	2.500	.165	50

SAE Flat Washers - Grade 8



For use with Grade 8 cap screws. Medium carbon steel. Hardened to RC38-45. Zinc gold chromate finish. Meets or exceeds ASME/ANSI B18.22.1 and ASTM F436 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8073-029	1/4	.281	.625	.065	100
ROC-8073-030	5/16	.344	.688	.065	100
ROC-8073-031	3/8	.406	.812	.065	100
ROC-8073-032	7/16	.469	.922	.065	100
ROC-8073-033	1/2	.531	1.062	.095	100
ROC-8073-034	9/16	.594	1.156	.095	100
ROC-8073-035	5/8	.656	1.312	.095	100
ROC-8073-036	3/4	.812	1.469	.134	50
ROC-8073-037	7/8	.938	1.750	.134	50
ROC-8073-038	1	1.062	2.000	.134	50

USS Flat Washers - Grade 8



Hardened and tempered. Zinc gold chromate plated. For use with Grade 8 hex head cap screws.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8072-029	1/4	.312	.734	.065	100
ROC-8072-030	5/16	.375	.875	.083	100
ROC-8072-031	3/8	.438	1.000	.083	100
ROC-8072-032	7/16	.500	1.250	.083	100
ROC-8072-033	1/2	.562	1.375	.109	100
ROC-8072-034	9/16	.625	1.469	.109	100
ROC-8072-035	5/8	.688	1.750	.134	100
ROC-8072-036	3/4	.812	2.000	.148	50
ROC-8072-037	7/8	.938	2.250	.165	50
ROC-8072-038	1	1.062	2.500	.165	50

Stainless Steel Flat Washers



Standard washers to provide required seating surface under a bolt head or a nut wherever high corrosion resistance is required. Meets or exceeds ASME/ANSI B18.22.1 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8089-005	#4	.125	.312	.032	100
ROC-8089-007	#6	.156	.375	.049	100
ROC-8089-009	#8	.188	.438	.049	100
ROC-8089-011	#10	.219	.500	.049	100
ROC-8089-013	#12	.250	.562	.065	100
ROC-8089-029	1/4	.281	.625	.065	100
ROC-8089-030	5/16	.344	.688	.065	100
ROC-8089-031	3/8	.406	.812	.065	100
ROC-8089-032	7/16	.469	.922	.065	100
ROC-8089-033	1/2	.531	1.062	.095	100
ROC-8089-035	5/8	.656	1.312	.095	50
ROC-8089-036	3/4	.812	1.469	.134	50

Metric Flat Washers



Standard steel washers to provide the required seating surface under a bolt head. Clear zinc chromate finish. Use with Property Class 8.8 fasteners.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-2808-004	M4	4.3	9	.8	100
ROC-2808-005	M5	5.3	10	1	100
ROC-2808-006	M6	6.4	12	1.6	100
ROC-2808-007	M7	7.4	14	1.6	100
ROC-2808-008	M8	8.4	16	1.6	100
ROC-2808-010	M10	10.5	21	2	100
ROC-2808-012	M12	13	24	2.5	100
ROC-2808-014	M14	15	28	2.5	100
ROC-2808-016	M16	17	30	3	100
ROC-2808-018	M18	19	34	3	50
ROC-2808-020	M20	21	37	3	50
ROC-2808-024	M24	25	44	4	50

Alloy Metric Flat Washers



Hardened alloy steel (DIN 125 HT) zinc plated. Use with Property Class 10.9 fasteners.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-2829-006	M6	6.4	12	1.6	100
ROC-2829-008	M8	8.4	16	1.6	100
ROC-2829-010	M10	10.5	21	2	100
ROC-2829-012	M12	13	24	2.5	100
ROC-2829-014	M14	15	28	2.5	100
ROC-2829-016	M16	17	30	3	100

Fender Washers



Flat washers designed to bridge oversize holes or other wide clearance requirements. Zinc chromate finish.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-BW-508	3/16 x 3/4	.219	.750	.049	100
ROC-BW-510	3/16 x 1	.219	1.000	.049	100
ROC-BW-512	3/16 x 1 1/4	.219	1.250	.049	100
ROC-BW-542	1/4 x 1	.281	1.000	.049	100
ROC-BW-43	1/4 x 1 1/4	.281	1.250	.049	100
ROC-BW-546	1/4 x 1 1/2	.281	1.500	.049	100
ROC-BW-550	1/4 x 2	.281	2.000	.049	100
ROC-BW-45	5/16 x 1 1/4	.344	1.250	.049	100
ROC-BW-587	5/16 x 1 1/2	.344	1.500	.049	100
ROC-BW-624	3/8 x 1	.406	1.000	.049	100
ROC-BW-626	3/8 x 1 1/4	.406	1.250	.049	100
ROC-BW-47	3/8 x 1 1/2	.406	1.500	.049	100
ROC-BW-632	3/8 x 2	.406	2.000	.049	100
ROC-BW-716	1/2 x 1 1/2	.531	1.500	.060	50
ROC-BW-720	1/2 x 2	.531	2.000	.060	50



Split Lock Washers



Spring action holds tension in assembly and helps prevent loosening or movement between parts. Zinc chromate finish. Meets or exceeds ASME/ANSI B18.21.1 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8076-007	#6	.148	.250	.031	100
ROC-8076-009	#8	.174	.293	.04	100
ROC-8076-011	#10	.200	.334	.047	100
ROC-8076-013	#12	.227	.377	.056	100
ROC-8076-029	¼	.262	.489	.062	100
ROC-8076-030	⅜	.326	.586	.078	100
ROC-8076-031	½	.390	.683	.094	100
ROC-8076-032	⅞	.455	.779	.109	100
ROC-8076-033	1	.518	.873	.125	100
ROC-8076-034	1¼	.582	.971	.141	100
ROC-8076-035	1½	.650	1.079	.156	100
ROC-8076-036	1¾	.775	1.271	.188	50
ROC-8076-037	2	.905	1.464	.219	50
ROC-8076-038	2½	1.042	1.661	.250	50

Grade 8 Lock Washers



Spring action lock washer compatible with Grade 8 cap screws and nuts. Hardened to RC 45-53 steel with zinc gold chromate finish. Meets or exceeds ASME/ANSI B18.21.1 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8077-029	¼	.262	.489	.062	100
ROC-8077-030	⅜	.326	.586	.078	100
ROC-8077-031	½	.390	.683	.094	100
ROC-8077-032	⅞	.455	.779	.109	100
ROC-8077-033	1	.518	.873	.125	100
ROC-8077-034	1¼	.582	.971	.141	100
ROC-8077-035	1½	.650	1.079	.156	100
ROC-8077-036	1¾	.775	1.271	.188	100
ROC-8077-037	2	.905	1.464	.219	100
ROC-8077-038	2½	1.042	1.661	.250	100

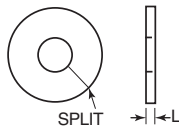
Stainless Steel Lock Washers



Spring action holds tension in assembly and helps prevent loosening or movement between parts. For applications requiring high corrosion resistance. Meets or exceeds ASME/ANSI B18.21.1 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8090-007	#6	.178	.250	.031	100
ROC-8090-009	#8	.174	.293	.040	100
ROC-8090-011	#10	.200	.334	.047	100
ROC-8090-013	#12	.227	.377	.056	100
ROC-8090-029	¼	.262	.489	.062	100
ROC-8090-030	⅜	.326	.586	.078	100
ROC-8090-031	½	.390	.683	.094	100
ROC-8090-032	⅞	.455	.779	.109	100
ROC-8090-033	1	.518	.873	.125	100
ROC-8090-035	1½	.650	1.079	.156	50
ROC-8090-036	1¾	.775	1.271	.188	50

Stainless Steel Split Washer



Item No.	For Thread Size	OD	ID	L	Pack Qty.	Item No.	For Thread Size	OD	ID	L	Pack Qty.
RAF-1082	6-32	.171	.112	.010	1	RAF-1088	10-32	.312	.166	.012	1
RAF-1084	8-32	.312	.146	.012	1	RAF-1090	¼-20	.312	.204	.012	1

Metric Lock Washers



Spring action holds tension in assembly and helps prevent loosening or movement between parts. Clear zinc chromate finish.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-2806-004	M4	4.3	7.3	1.02	100
ROC-2806-005	M5	5.3	8.7	1.19	100
ROC-2806-006	M6	6.1	11.8	1.6	100
ROC-2806-007	M7	7.1	12.8	1.6	100
ROC-2806-008	M8	8.2	14.8	2	100
ROC-2806-010	M10	10.2	18.1	2.2	100
ROC-2806-012	M12	12.2	21.1	2.5	100
ROC-2806-014	M14	14.2	24.1	3	100
ROC-2806-016	M16	16.2	27.4	3.5	100
ROC-2806-018	M18	18.2	29.4	3.5	50
ROC-2806-020	M20	20.2	33.6	4	50
ROC-2806-024	M24	24.5	40	5	50

Lock Washers



External Tooth



Internal Tooth

External or internal tooth lock washers provide extra resistance to vibration loosening. Zinc chromate finish. Meets or exceeds ASME/ANSI B18.21.1 standards.

Item No.	Bolt Size	I.D.	O.D.	Thickness (in)	Pack Qty.
External Tooth					
ROC-SP-106X	#6	.150	.320	.022	100
ROC-SP-108X	#8	.176	.381	.023	100
ROC-SP-110X	#10	.204	.410	.024	100
ROC-SP-112X	#12	.231	.475	.027	100
ROC-SP-114X	¼	.267	.510	.028	100
ROC-SP-116X	⅜	.322	.610	.034	100
ROC-SP-118X	½	.398	.694	.040	50
ROC-SP-120X	⅞	.464	.760	.040	50
ROC-SP-122X	1	.530	.900	.045	50
Internal Tooth					
ROC-SP-206X	#6	.150	.295	.021	100
ROC-SP-208X	#8	.176	.340	.023	100
ROC-SP-210X	#10	.204	.381	.025	100
ROC-SP-212X	#12	.231	.410	.025	100
ROC-SP-214X	¼	.267	.478	.028	100
ROC-SP-216X	⅜	.332	.610	.034	100
ROC-SP-218X	½	.398	.692	.040	50
ROC-SP-220X	⅞	.464	.760	.040	50
ROC-SP-222X	1	.530	.900	.045	50

Stainless Steel Finishing Washers



Countersunk washers for use with stainless steel flat, oval or pan head screws. For decorative finishing.

Item No.	Bolt Size	I.D.	O.D.	Thickness	Pack Qty.
ROC-8092-007	#6	.173	1½/32	⅜/32	100
ROC-8092-009	#8	.209	17/32	⅜/32	100
ROC-8092-011	#10	.269	19/32	½	100
ROC-8092-013	#12	.275	21/32	½	100
ROC-8092-029	¼	.324	25/32	½	100

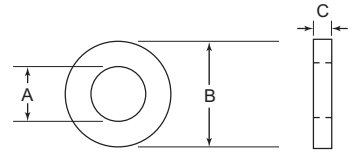
FW Series
Flat Washers

Specifications:

- Material: Nylon
- Color: Natural and Black

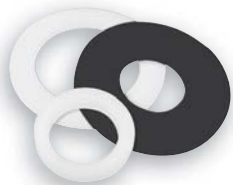
Features:

- Resistant to corrosion and many chemicals



Item No.		A In	B In	C In	Fits	Pack Qty.
Natural	Black					
FW0004A	FW0004B	0.032	0.125	0.060	—	1,000
FW0010A	FW0010B	0.090	0.250	0.032	#2	1,000
FW0020A	FW0020B	0.090	0.250	0.062	#2	1,000
FW0030A	FW0030B	0.090	0.250	0.093	#2	1,000
FW0040A	FW0040B	0.090	0.250	0.125	#2	1,000
FW0042A	FW0042B	0.094	0.188	0.020	—	1,000
FW0045A	FW0045B	0.104	0.220	0.031	—	1,000
FW0050A	FW0050B	0.115	0.250	0.032	#4	1,000
FW0060A	FW0060B	0.115	0.250	0.062	#4	1,000
FW0070A	FW0070B	0.115	0.250	0.093	#4	1,000
FW0080A	FW0080B	0.115	0.250	0.125	#4	1,000
FW0082A	FW0082B	0.120	0.218	0.037	—	1,000
FW0084A	FW0084B	0.120	0.288	0.040	—	1,000
FW0085A	FW0085B	0.125	0.235	0.040	—	1,000
FW0086A	FW0086B	0.125	0.375	0.040	—	1,000
FW0088A	FW0088B	0.130	0.318	0.062	—	1,000
FW0089A	FW0089B	0.130	0.355	0.062	—	1,000
FW0090A	FW0090B	0.140	0.312	0.032	#6	1,000
FW0100A	FW0100B	0.140	0.312	0.062	#6	1,000
FW0110A	FW0110B	0.140	0.312	0.093	#6	1,000
FW0120A	FW0120B	0.140	0.312	0.125	#6	1,000
FW0122A	FW0122B	0.141	0.250	0.062	—	1,000
FW0124A	FW0124B	0.141	0.375	0.031	—	1,000
FW0126A	FW0126B	0.156	0.320	0.031	—	1,000
FW0130A	FW0130B	0.171	0.375	0.032	#8	1,000
FW0140A	FW0140B	0.171	0.375	0.062	#8	1,000
FW0150A	FW0150B	0.171	0.375	0.093	#8	1,000
FW0160A	FW0160B	0.171	0.375	0.125	#8	1,000
FW0164A	FW0164B	0.187	0.312	0.050	—	1,000
FW0166A	FW0166B	0.188	0.505	0.032	—	1,000
FW0167A	FW0167B	0.189	0.375	0.031	—	1,000
FW0170A	FW0170B	0.194	0.375	0.032	#10	1,000
FW0180A	FW0180B	0.194	0.375	0.062	#10	1,000
FW0190A	FW0190B	0.194	0.375	0.093	#10	1,000
FW0200A	FW0200B	0.194	0.375	0.125	#10	1,000
FW0201A	FW0201B	0.194	0.625	0.125	—	1,000
FW0202A	FW0202B	0.195	0.437	0.020	—	1,000
FW0203A	FW0203B	0.195	0.437	0.031	—	1,000
FW0204A	FW0204B	0.200	0.437	0.062	—	1,000
FW0205A	FW0205B	0.219	0.500	0.156	—	1,000
FW0206A	FW0206B	0.250	0.375	0.150	—	1,000
FW0207A	FW0207B	0.250	0.625	0.062	—	1,000
FW0208A	FW0208B	0.252	0.622	0.060	—	1,000
FW0210A	FW0210B	0.257	0.500	0.032	1/4	1,000
FW0220A	FW0220B	0.257	0.500	0.062	1/4	1,000

Item No.		A In	B In	C In	Fits	Pack Qty.
Natural	Black					
FW0230A	FW0230B	0.257	0.500	0.093	1/4	1,000
FW0240A	FW0240B	0.257	0.500	0.125	1/4	1,000
FW0241A	FW0241B	0.257	0.625	0.020	—	1,000
FW0242A	FW0242B	0.257	0.750	0.062	—	1,000
FW0243A	FW0243B	0.257	0.875	0.062	—	1,000
FW0244A	FW0244B	0.260	0.562	0.062	—	1,000
FW0245A	FW0245B	0.260	0.687	0.125	—	1,000
FW0246A	FW0246B	0.281	0.490	0.030	—	1,000
FW0247A	FW0247B	0.281	0.719	0.062	—	1,000
FW0248A	FW0248B	0.315	0.625	0.031	—	1,000
FW0249A	FW0249B	0.315	0.872	0.062	—	1,000
FW0250A	FW0250B	0.317	0.500	0.032	5/16	1,000
FW0260A	FW0260B	0.317	0.500	0.062	5/16	1,000
FW0270A	FW0270B	0.317	0.500	0.093	5/16	1,000
FW0280A	FW0280B	0.317	0.500	0.125	5/16	1,000
FW0281A	FW0281B	0.317	0.750	0.062	—	1,000
FW0282A	FW0282B	0.321	0.625	0.125	—	1,000
FW0283A	FW0283B	0.323	0.750	0.125	—	1,000
FW0285A	FW0285B	0.340	0.740	0.062	—	1,000
FW0286A	FW0286B	0.343	0.885	0.062	—	1,000
FW0287A	FW0287B	0.375	0.505	0.050	—	1,000
FW0290A	FW0290B	0.375	0.625	0.032	3/8	1,000
FW0292A	FW0292B	0.375	0.750	0.062	—	1,000
FW0294A	FW0294B	0.377	0.875	0.062	—	1,000
FW0296A	FW0296B	0.390	0.688	0.031	—	1,000
FW0300A	FW0300B	0.380	0.625	0.062	3/8	1,000
FW0310A	FW0310B	0.380	0.625	0.093	3/8	1,000
FW0320A	FW0320B	0.380	0.625	0.125	3/8	1,000
FW0322A	FW0322B	0.390	0.750	0.062	—	1,000
FW0324A	FW0324B	0.406	0.750	0.032	—	1,000
FW0326A	FW0326B	0.406	0.750	0.200	—	1,000
FW0328A	FW0328B	0.406	1.000	0.062	—	500
FW0330A	FW0330B	0.443	0.750	0.032	7/16	1,000
FW0340A	FW0340B	0.443	0.750	0.062	7/16	1,000
FW0350A	FW0350B	0.443	0.750	0.093	7/16	1,000
FW0360A	FW0360B	0.443	0.750	0.125	7/16	1,000
FW0362A	FW0362B	0.500	1.500	0.125	—	500
FW0370A	FW0370B	0.505	0.750	0.032	1/2	1,000
FW0380A	FW0380B	0.505	0.750	0.062	1/2	1,000
FW0390A	FW0390B	0.505	0.750	0.093	1/2	1,000
FW0400A	FW0400B	0.505	0.750	0.125	1/2	1,000
FW0404A	FW0404B	0.516	1.250	0.062	—	500
FW0410A	FW0410B	0.522	0.712	0.062	—	1,000
FW0415A	FW0415B	0.540	1.120	0.125	—	500
FW0450A	FW0450B	0.765	1.250	0.080	—	500

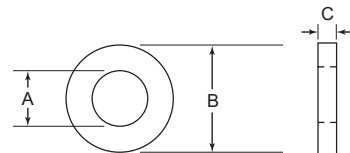
MFW Series
DIN125 Flat Washers

Specifications:

- Material: Nylon
- Color: Natural

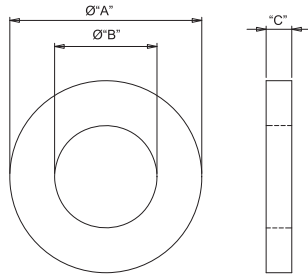
Features:

- Resistant to corrosion and many chemicals
- DIN125



Item No.		A mm	B mm	C mm	Fits	Pack Qty.	
Natural	Black					Natural	Black
MFW010A	—	2.20	5.00	0.30	M2	1,000	—
MFW020A	—	2.70	6.00	0.50	M2.5	1,000	—
MFW030A	MFW030B	3.20	7.00	0.50	M3	1,000	1,000
MFW040A	—	3.70	8.00	0.50	M3.5	1,000	—
MFW050A	MFW050B	4.30	9.00	0.80	M4	1,000	1,000
MFW060A	MFW060B	5.30	10.00	1.00	M5	1,000	1,000
MFW070A	MFW070B	6.40	12.00	1.60	M6	1,000	100
MFW080A	MFW080B	8.40	16.00	1.60	M8	1,000	100
MFW090A	MFW090B	10.50	20.00	2.00	M10	1,000	100
MFW100A	MFW100B	13.00	24.00	2.50	M12	500	100

Item No.		A mm	B mm	C mm	Fits	Pack Qty.	
Natural	Black					Natural	Black
MFW110A	—	15.00	30.00	3.00	M14	1,000	—
MFW120A	—	17.00	30.00	3.00	M16	250	—
MFW130A	—	19.00	34.00	3.00	M18	250	—
MFW140A	—	21.00	37.00	3.00	M20	250	—
MFW150A	—	25.00	44.00	4.00	M22	250	—
MFW160A	—	28.00	50.00	4.00	M24	250	—
MFW170A	—	31.00	56.00	4.00	M27	250	—
MFW180A	—	37.00	66.00	5.00	M30	250	—
MFW190A	—	40.00	72.00	6.00	M36	250	—

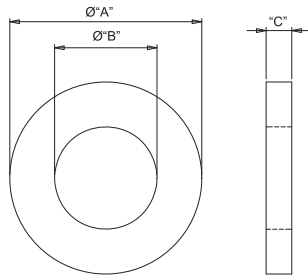

185XXX070409
PEEK Flat Washers

Specifications:

- Material: UL94 V-0 PEEK
- Color: Light Brown

Features:

- Heat Resistant up to 356°F (180°C)

Item No.	Ø"B" I.D.	Ø"A" O.D.	"C"	Fits Screw	Pack Qty.
185020070409	.106 (2.7)	.236 (6)	.020 (.5)	#3 (M2.5)	250
185030070409	.126 (3.2)	.276 (7)	.020 (.5)	#5 (M3)	250
185040070409	.169 (4.3)	.354 (9)	.031 (.8)	#8 (M4)	250
185050070409	.209 (5.3)	.394 (10)	.039 (1)	#10 (M5)	250
185060070409	.252 (6.4)	.492 (12.5)	.063 (1.6)	1/4 (M6)	250
185080070409	.331 (8.4)	.669 (17)	.063 (1.6)	5/16 (M8)	100
185100070409	.413 (10.5)	.827 (21)	.079 (2)	3/8 (M10)	100

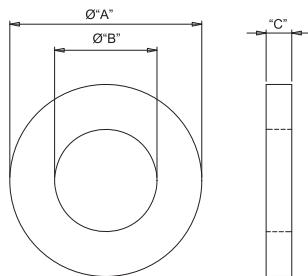
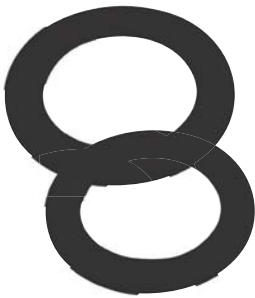
17300XX0022
PC Flat Washers

Specifications:

- Material: Polycarbonate
- Color: Clear

Features:

- High transparency

Item No.	Ø"B" I.D.	Ø"A" O.D.	"C"	Fits Screw	Pack Qty.
173000200022	.083 (2.1)	.157 (4)	.020 (.5)	#2 (M2)	100
173002600022	.106 (2.7)	.236 (6)	.020 (.5)	#3 (M2.5)	100
173000300022	.130 (3.3)	.315 (8)	.031 (.8)	#5 (M3)	100
173000400022	.177 (4.5)	.394 (10)	.031 (.8)	#8 (M4)	100
173000500022	.217 (5.5)	.472 (12)	.039 (1.0)	#12 (M5)	100
173000600022	.256 (6.5)	.512 (13)	.063 (1.6)	1/4 (M6)	100
173000800022	.335 (8.5)	.709 (18)	.063 (1.6)	1/4 (M8)	100

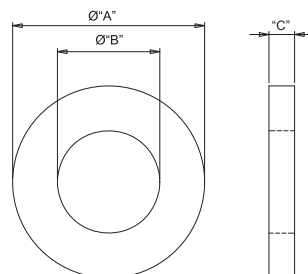
03XXX0011407
PVC Flat Washer

Specifications:

- Material: PVC
- Color: Black

Features:

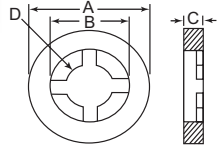
- No water absorption

Item No.	Ø"B" I.D.	Ø"A" O.D.	"C"	Fits Screw	Pack Qty.
032030011407	.126 (3.2)	.354 (9)	.059 (1.5)	#5 (M3)	1,000
032040011407	.169 (4.3)	.472 (12)	.055 (1.4)	#8 (M4)	1,000
032050011407	.209 (5.3)	.591 (15)	.059 (1.5)	#10 (M5)	500
032060011407	.252 (6.4)	.709 (18)	.079 (2)	1/4 (M6)	500
032080011407	.331 (8.4)	.984 (25)	.098 (2.5)	5/16 (M8)	500
032100011407	.413 (10.5)	1.181 (30)	.118 (3)	3/8 (M10)	250
032120011407	.512 (13.0)	1.575 (40)	.118 (3)	1/2 (M13)	100
033030011407	.126 (3.2)	.591 (15)	.059 (1.5)	#5 (M3)	500
033040011407	.169 (4.3)	.709 (18)	.079 (2)	#8 (M4)	500
033050011407	.209 (5.3)	.984 (25)	.098 (2.5)	#10 (M5)	500
033060011407	.252 (6.4)	1.181 (30)	.118 (3)	1/4 (M6)	100
033080011407	.331 (8.4)	1.575 (40)	.118 (3)	5/16 (M8)	100

5850X0000011
PP Flat Washer

Specifications:

- Material: Polypropylene
- Color: Natural

Item No.	Ø"B" I.D.	Ø"A" O.D.	"C"	Fits Screw	Pack Qty.
585010000011	.169 (4.3)	.354 (9)	.031 (.8)	#8 (M4)	100
585020000011	.209 (5.3)	.394 (10)	.039 (1)	#10 (M5)	100
585030000011	.252 (6.4)	.472 (12)	.063 (1.6)	1/4 (M6)	100
585040000011	.331 (8.4)	.630 (16)	.063 (1.6)	5/16 (M8)	100
585060000011	.413 (10.5)	.787 (20)	.079 (2)	3/8 (M10)	100
585050000011	.512 (13.0)	.945 (24)	.098 (2.5)	1/2 (M12)	100

RW Series
Retaining Washers

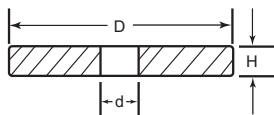
Specifications:

- Material: Nylon
- Color: Natural

Features:

- I.D. designed to grip outside of screw shank
- Easily slides on to the screw but is retained by the screw once assembled
- Used in applications requiring pre-assembly of the screw and washer
- Reduces assembly time and cost

Item No.	Screw Size	A		B		C		D		Pack Qty.
		In	mm	In	mm	In	mm	In	mm	
RW2032A	#2	0.203	5.16	0.115	2.92	0.032	0.81	0.078	1.98	1,000
RW2062A	#2	0.203	5.16	0.115	2.92	0.062	1.57	0.078	1.98	1,000
RW4032A	#4	0.265	6.73	0.156	3.96	0.032	0.81	0.102	2.59	1,000
RW4050A	#4	0.250	6.35	0.156	3.96	0.050	1.27	0.102	2.59	1,000
RW4062A	#4	0.265	6.73	0.156	3.96	0.062	1.57	0.102	2.59	1,000
RW4125A	#4	0.265	6.73	0.156	3.96	0.125	3.18	0.102	2.59	1,000
RW6032A	#6	0.328	8.33	0.198	5.03	0.032	0.81	0.128	3.25	1,000
RW6062A	#6	0.328	8.33	0.198	5.03	0.062	1.57	0.128	3.25	1,000
RW7062A	#7	0.750	19.05	0.375	9.53	0.062	1.57	0.215	5.46	1,000
RW8032A	#8	0.390	9.91	0.235	5.97	0.032	0.81	0.152	3.86	1,000
RW8045A	#8	0.453	11.51	0.218	5.54	0.045	1.14	0.135	3.43	1,000
RW8062A	#8	0.390	9.91	0.235	5.97	0.062	1.57	0.152	3.86	1,000
RW10032A	#10	0.453	11.51	0.277	7.04	0.032	0.81	0.177	4.50	1,000
RW10062A	#10	0.453	11.51	0.277	7.04	0.062	1.57	0.177	4.50	1,000
RW250032A	1/4	0.593	15.06	0.375	9.53	0.032	0.81	0.234	5.94	1,000
RW250062A	1/4	0.593	15.06	0.375	9.53	0.062	1.57	0.234	5.94	1,000
RW312032A	5/16	0.734	18.64	0.470	11.94	0.032	0.81	0.292	7.42	1,000
RW312062A	5/16	0.734	18.64	0.470	11.94	0.062	1.57	0.292	7.42	1,000
RW375032A	3/8	0.890	22.61	0.564	14.33	0.032	0.81	0.350	8.89	1,000
RW375062A	3/8	0.890	22.61	0.564	14.33	0.062	1.57	0.350	8.89	1,000
RW437032A	7/16	1.031	26.19	0.570	14.48	0.032	0.81	0.410	10.41	500
RW437062A	7/16	1.031	26.19	0.570	14.48	0.062	1.57	0.410	10.41	500
RW500032A	1/2	1.125	28.58	0.690	17.53	0.032	0.81	0.468	11.89	500
RW500062A	1/2	1.125	28.58	0.690	17.53	0.062	1.57	0.468	11.89	500
RW875062A	7/8	1.343	34.11	0.940	23.88	0.062	1.57	0.825	20.96	500

RWM Series
Metric Retaining Washers

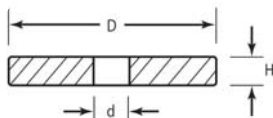
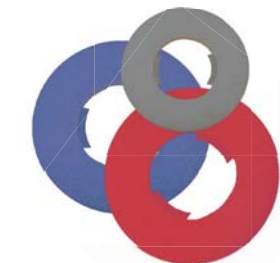
Specifications:

- Material: Nylon
- Color: Natural

Features:

- Designed to grip outside of screw shank
- Easily slides on to the screw but is retained by the screw once assembled
- Ideal for applications requiring pre-assembly of the screw and washer
- Reduces assembly time and cost
- Ideal for outdoor environments
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Screw Size	D (OD) mm	d (ID) mm	H (Thickness) mm	Pack Qty.
RWM050A	M2	5.00	2.70	1.50	1,000
RWM100A	M3	5.50	3.20	2.20	1,000
RWM150A	M3	9.00	3.20	1.50	1,000
RWM200A	M4	7.00	4.30	2.30	1,000
RWM250A	M4	12.00	4.30	1.40	1,000
RWM300A	M5	8.50	5.30	2.80	1,000
RWM350A	M5	11.50	5.30	1.40	1,000
RWM400A	M6	10.00	6.40	2.80	1,000
RWM450A	M6	18.00	6.40	2.00	500
RWM500A	M8	13.00	8.40	2.80	500
RWM550A	M10	21.00	10.50	2.50	500

015XXXXXX03
Retaining PE Flat Washer

Specifications:

- Material: Polyethylene

Features:

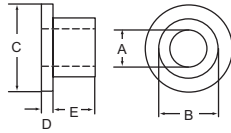
- Designed to grip outside of screw shank
- Easily slides on to the screw but is retained by the screw once assembled
- Ideal for applications requiring pre-assembly of the screw and washer
- Reduces assembly time and cost

Item No.	Color	Ø" d" I.D.	Ø" D" O.D.	"H"	Fits Screw	Pack Qty.
015002500503	Red	.106 (2.7)	.256 (6.5)	.043 (1.1)	#3 (M2.5)	1,000
015003000503	Red	.126 (3.2)	.276 (7)	.055 (1.4)	#5 (M3)	1,000
015004000503	Red	.169 (4.3)	.354 (9)	.043 (1.1)	#8 (M4)	1,000
015005000503	Red	.209 (5.3)	.433 (11)	.051 (1.3)	#10 (M5)	1,000
015006000503	Red	.252 (6.4)	.472 (12)	.063 (1.6)	1/4 (M6)	500
015008000503	Red	.331 (8.4)	.669 (17)	.079 (2)	5/16 (M7)	500
015102500203	Grey	.106 (2.7)	.197 (5)	.059 (1.5)	#3 (M2.5)	1,000
015103000203	Grey	.126 (3.2)	.217 (5.5)	.083 (2.1)	#5 (M3)	1,000
015104000203	Grey	.169 (4.3)	.276 (7)	.087 (2.2)	#8 (M4)	1,000
015105000203	Grey	.209 (5.3)	.335 (8.5)	.106 (2.7)	#10 (M5)	1,000
015106000203	Grey	.252 (6.4)	.394 (10)	.106 (2.7)	1/4 (M6)	1,000
015108000203	Grey	.331 (8.4)	.512 (13)	.106 (2.7)	5/16 (M7)	500
0152025008703	Blue	.106 (2.7)	.197 (5)	.039 (1)	#3 (M2.5)	1,000
0152030008703	Blue	.126 (3.2)	.236 (6)	.039 (1)	#5 (M3)	1,000
0152040008703	Blue	.169 (4.3)	.315 (8)	.039 (1)	#8 (M4)	1,000
0152050008703	Blue	.209 (5.3)	.394 (10)	.039 (1)	#10 (M5)	1,000
0152060008703	Blue	.252 (6.4)	.433 (11)	.059 (1.5)	1/4 (M6)	1,000
0152080008703	Blue	.331 (8.4)	.591 (15)	.059 (1.5)	5/16 (M7)	500
01521.0008703	Blue	.413 (10.5)	.709 (18)	.059 (1.5)	3/8 (M10)	500



INSULATING WASHERS & FLANGED BUSHINGS

IW Series Insulator Washers



Specifications:

- Material: Nylon
- Color: Natural

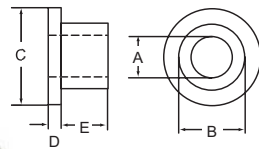
Features:

- Use for connections between incompatible metals
- Provides electrical insulation

Item No.	A In	B In	C In	D In	E In	Fits	Pack Qty.
IW010A	0.09	0.12	0.181	0.046	0.125	#2	1,000
IW020A	0.09	0.12	0.181	0.046	0.25	#2	1,000
IW030A	0.115	0.145	0.235	0.046	0.031	#4	1,000
IW040A	0.115	0.145	0.235	0.046	0.046	#4	1,000
IW050A	0.115	0.145	0.235	0.046	0.062	#4	1,000
IW060A	0.115	0.145	0.235	0.046	0.093	#4	1,000
IW070A	0.115	0.145	0.235	0.046	0.125	#4	1,000
IW080A	0.115	0.145	0.235	0.046	0.156	#4	1,000
IW090A	0.115	0.145	0.235	0.046	0.187	#4	1,000
IW100A	0.115	0.145	0.235	0.046	0.25	#4	1,000
IW110A	0.115	0.145	0.235	0.046	0.375	#4	1,000
IW120A	0.115	0.145	0.235	0.046	0.5	#4	1,000
IW130A	0.14	0.17	0.29	0.046	0.046	#6	1,000
IW140A	0.14	0.17	0.29	0.046	0.062	#6	1,000
IW150A	0.14	0.17	0.29	0.046	0.093	#6	1,000
IW160A	0.14	0.17	0.29	0.046	0.125	#6	1,000
IW170A	0.14	0.17	0.29	0.046	0.156	#6	1,000
IW180A	0.14	0.17	0.29	0.046	0.187	#6	1,000
IW190A	0.14	0.17	0.29	0.046	0.25	#6	1,000
IW200A	0.14	0.17	0.29	0.046	0.5	#6	1,000
IW210A	0.14	0.17	0.29	0.046	0.375	#6	1,000
IW220A	0.173	0.205	0.344	0.062	0.125	#8	1,000
IW230A	0.173	0.205	0.344	0.062	0.14	#8	1,000
IW240A	0.173	0.205	0.344	0.062	0.25	#8	1,000

Item No.	A In	B In	C In	D In	E In	Fits	Pack Qty.
IW250A	0.173	0.205	0.344	0.062	0.375	#8	1,000
IW260A	0.173	0.205	0.344	0.062	0.500	#8	1,000
IW270A	0.173	0.205	0.344	0.062	0.625	#8	1,000
IW280A	0.173	0.205	0.344	0.062	0.750	#8	1,000
IW290A	0.200	0.260	0.399	0.062	0.140	#10	1,000
IW300A	0.200	0.260	0.399	0.062	0.187	#10	1,000
IW310A	0.200	0.260	0.399	0.062	0.250	#10	1,000
IW320A	0.200	0.260	0.399	0.062	0.375	#10	1,000
IW330A	0.200	0.263	0.399	0.062	0.500	#10	1,000
IW340A	0.200	0.260	0.399	0.062	0.750	#10	1,000
IW350A	0.200	0.260	0.399	0.062	0.625	#10	1,000
IW360A	0.260	0.312	0.513	0.031	0.250	1/4"	1,000
IW370A	0.260	0.312	0.513	0.062	0.125	1/4"	1,000
IW380A	0.260	0.312	0.513	0.062	0.140	1/4"	1,000
IW390A	0.260	0.312	0.513	0.062	0.187	1/4"	1,000
IW400A	0.260	0.312	0.513	0.062	0.250	1/4"	1,000
IW410A	0.260	0.312	0.513	0.062	0.375	1/4"	1,000
IW420A	0.260	0.312	0.513	0.062	0.500	1/4"	1,000
IW430A	0.260	0.312	0.513	0.062	0.750	1/4"	1,000
IW440A	0.260	0.312	0.513	0.062	0.625	1/4"	1,000
IW450A	0.320	0.360	0.620	0.062	0.125	5/16"	1,000
IW460A	0.320	0.360	0.620	0.062	0.375	5/16"	1,000
IW470A	0.320	0.360	0.620	0.062	0.625	5/16"	1,000
IW480A	0.320	0.360	0.620	0.062	0.500	5/16"	1,000

FB & FBM Series Flanged Bushings



Specifications:

- Material: Nylon
- Color: Natural

Features:

- Suitable for light-load bearings or bushing
- Will not rust, corrode or deteriorate
- Act as an electrical insulator by preventing metal-to-metal contact
- Low-friction coefficient
- Can be used as a locator, sleeve, liner or glide

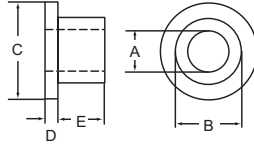


Imperial

Item No.	A		B		C		D		E		Pack Qty.
	In	mm	In	mm	In	mm	In	mm	In	mm	
FB1080A	0.190	4.80	0.343	8.70	0.875	22.20	0.140	3.60	0.141	3.60	2,500
FB1090A	0.190	4.80	0.375	9.50	0.500	12.70	0.113	2.90	0.325	8.30	4,000
FB1120A	0.196	5.00	0.300	7.60	0.500	12.70	0.125	3.20	0.375	9.50	2,000
FB1150A	0.196	5.00	0.344	8.70	0.500	12.70	0.187	4.70	0.407	10.30	4,000
FB1170A	0.219	5.60	0.315	8.00	0.562	14.30	0.082	2.10	0.137	3.50	18,000
FB1200A	0.253	6.40	0.440	11.20	0.937	23.80	0.125	3.20	0.165	4.20	1,000
FB1250A	0.255	6.50	0.372	9.40	0.550	14.00	0.062	1.60	0.522	13.30	1,000
FB1260A	0.255	6.50	0.375	9.50	0.635	16.10	0.062	1.60	0.213	5.40	5,000
FB1270A	0.255	6.50	0.490	12.40	0.750	19.10	0.090	2.30	0.110	2.80	4,500
FB1280A	0.258	6.60	0.317	8.10	0.562	14.30	0.062	1.60	0.313	8.00	6,000
FB1370A	0.315	8.00	0.365	9.30	0.562	14.30	0.062	1.60	0.281	7.10	5,000
FB1430A	0.375	9.50	0.469	11.90	0.687	17.40	0.078	2.00	0.094	2.40	4,000
FB1440A	0.375	9.50	0.500	12.70	0.625	15.90	0.062	1.60	0.253	6.40	9,000
FB1460A	0.375	9.50	0.500	12.70	0.745	18.90	0.062	1.60	0.750	19.10	5,000
FB1480A	0.375	9.50	0.505	12.80	0.750	19.10	0.200	5.10	0.500	12.70	2,000
FB1510A	0.383	9.70	0.500	12.70	0.750	19.10	0.125	3.20	0.360	9.10	3,000
FB1530A	0.380	9.70	0.625	15.90	1.125	28.60	0.125	3.20	0.250	6.40	4,000
FB1550A	0.385	9.80	0.625	15.90	0.750	19.10	0.094	2.40	0.500	12.70	6,000
FB1600A	0.510	13.00	0.625	15.90	0.875	22.20	0.125	3.20	0.375	9.50	6,000
FB1620A	0.750	19.10	0.875	22.20	1.125	28.60	0.062	1.60	0.313	8.00	4,250
FB1640A	0.760	19.30	1.000	25.40	1.375	34.90	0.125	3.20	0.312	7.90	2,500
FB1650A	0.765	19.40	0.875	22.20	1.125	28.60	0.125	3.20	0.750	19.10	2,000
FB1660A	1.000	25.40	1.250	31.80	1.328	33.70	0.125	3.18	0.625	15.88	1,300

Metric

Item No.	A		B		C		D		E		Pack Qty.
	In	mm	In	mm	In	mm	In	mm	In	mm	
FBM1000A	0.197	5.00	0.315	8.00	0.433	11.00	0.079	2.00	0.315	8.00	1,000
FBM1010A	0.236	6.00	0.354	9.00	0.472	12.00	0.079	2.00	0.157	4.00	1,000
FBM1020A	0.236	6.00	0.394	10.00	0.591	15.00	0.059	1.50	0.276	7.00	1,000
FBM1030A	0.315	8.00	0.433	11.00	0.630	16.00	0.079	2.00	0.433	11.00	1,000
FBM1040A	0.315	8.00	0.472	12.00	0.630	16.00	0.079	2.00	0.157	4.00	1,000
FBM1050A	0.315	8.00	0.551	14.00	0.787	20.00	0.079	2.00	0.315	8.00	1,000
FBM1060A	0.394	10.00	0.472	12.00	0.630	16.00	0.079	2.00	0.157	4.00	1,000
FBM1070A	0.394	10.00	0.512	13.00	0.709	18.00	0.079	2.00	0.236	6.00	1,000
FBM1080A	0.394	10.00	0.512	13.00	0.709	18.00	0.118	3.00	0.512	13.00	1,000
FBM1090A	0.394	10.00	0.551	14.00	0.787	20.00	0.079	2.00	0.315	8.00	1,000
FBM1100A	0.394	10.00	0.630	16.00	0.827	21.00	0.079	2.00	0.315	8.00	1,000
FBM1110A	0.472	12.00	0.551	14.00	0.787	20.00	0.079	2.00	0.315	8.00	1,000
FBM1120A	0.472	12.00	0.630	16.00	0.827	21.00	0.079	2.00	0.315	8.00	1,000
FBM1130A	0.472	12.00	0.630	16.00	0.827	21.00	0.118	3.00	0.63	16.00	1,000
FBM1140A	0.630	16.00	0.787	20.00	1.102	28.00	0.067	1.70	0.543	13.80	1,000
FBM1150A	0.709	18.00	0.866	22.00	1.181	30.00	0.118	3.00	0.866	22.00	1,000
FBM1160A	0.984	25.00	1.181	30.00	1.457	37.00	0.118	3.00	1.063	27.00	1,000
FBM1170A	1.102	28.00	1.299	33.00	1.575	40.00	0.118	3.00	1.181	30.00	750

WS Series
Shoulder Washers

Specifications:

- Material: Nylon
- Color: Natural

Features:

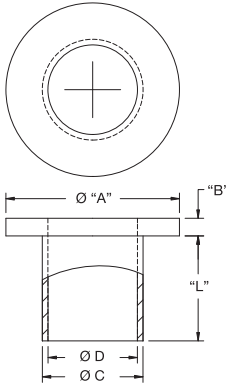
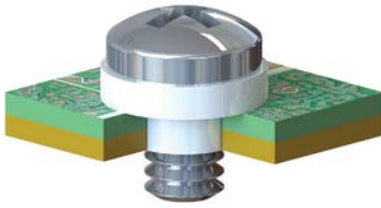
- Used for insulation and mechanical applications
- Reduces Vibration
- Strong & Corrosion resistant

Item No.	A In	B In	C In	D In	E In	Screw	Pack Qty.
WS0010A	0.093	0.120	0.195	0.031	0.062	#2	1,000
WS0020A	0.093	0.125	0.208	0.031	0.109	#2	1,000
WS0030A	0.093	0.125	0.205	0.031	0.187	#2	1,000
WS0040A	0.093	0.158	0.281	0.093	0.125	#2	1,000
WS0050A	0.098	0.140	0.250	0.030	0.065	#2	1,000
WS0060A	0.109	0.138	0.200	0.032	0.046	#2	1,000
WS0070A	0.110	0.135	0.242	0.046	0.156	#2	1,000
WS0080A	0.113	0.143	0.250	0.046	0.046	#4	1,000
WS0090A	0.114	0.138	0.240	0.062	0.046	#4	1,000
WS0100A	0.114	0.150	0.312	0.045	0.100	#4	1,000
WS0110A	0.115	0.135	0.216	0.046	0.031	#4	1,000
WS0120A	0.115	0.135	0.218	0.046	0.031	#4	1,000
WS0130A	0.115	0.137	0.240	0.046	0.031	#4	1,000
WS0140A	0.115	0.139	0.240	0.046	0.031	#4	1,000
WS0150A	0.115	0.140	0.200	0.031	0.031	#4	1,000
WS0160A	0.115	0.140	0.242	0.046	0.125	#4	1,000
WS0170A	0.115	0.140	0.203	0.046	0.031	#4	1,000
WS0180A	0.115	0.140	0.242	0.046	0.109	#4	1,000
WS0190A	0.115	0.141	0.235	0.046	0.093	#4	1,000
WS0200A	0.115	0.143	0.250	0.031	0.062	#4	1,000
WS0210A	0.115	0.145	0.235	0.046	0.093	#4	1,000
WS0220A	0.115	0.145	0.235	0.046	0.250	#4	1,000
WS0230A	0.115	0.145	0.250	0.046	0.109	#4	1,000
WS0240A	0.115	0.149	0.312	0.062	0.093	#4	1,000
WS0250A	0.116	0.135	0.200	0.078	0.031	#4	1,000
WS0260A	0.116	0.139	0.239	0.020	0.050	#4	1,000
WS0270A	0.116	0.143	0.210	0.042	0.033	#4	1,000
WS0280A	0.118	0.135	0.250	0.050	0.120	#4	1,000
WS0290A	0.118	0.139	0.250	0.046	0.125	#4	1,000
WS0300A	0.118	0.143	0.250	0.031	0.062	#4	1,000
WS0310A	0.118	0.157	0.244	0.040	0.177	#4	1,000
WS0320A	0.120	0.136	0.253	0.046	0.078	#4	1,000
WS0330A	0.120	0.138	0.250	0.046	0.062	#4	1,000
WS0340A	0.120	0.150	0.250	0.050	0.090	#4	1,000
WS0350A	0.120	0.154	0.224	0.031	0.062	#4	1,000
WS0360A	0.120	0.187	0.250	0.031	0.031	#4	1,000
WS0370A	0.122	0.142	0.230	0.015	0.046	#4	1,000
WS0380A	0.125	0.156	0.250	0.047	0.250	#4	1,000
WS0390A	0.125	0.158	0.260	0.032	0.437	#4	1,000
WS0400A	0.125	0.190	0.375	0.040	0.070	#4	1,000
WS0410A	0.125	0.205	0.290	0.060	0.090	#4	1,000
WS0420A	0.125	0.253	0.375	0.050	0.300	#4	1,000
WS0430A	0.125	0.375	0.750	0.062	0.500	#4	1,000
WS0440A	0.128	0.187	0.312	0.046	0.093	#4	1,000
WS0450A	0.138	0.240	0.375	0.062	0.109	#6	1,000
WS0460A	0.140	0.170	0.290	0.046	0.031	#6	1,000
WS0470A	0.140	0.170	0.312	0.046	0.062	#6	1,000
WS0480A	0.140	0.170	0.290	0.046	0.250	#6	1,000
WS0490A	0.140	0.187	0.250	0.062	0.031	#6	1,000
WS0500A	0.140	0.218	0.375	0.062	0.046	#6	1,000
WS0510A	0.140	0.275	0.400	0.125	0.125	#6	1,000
WS0520A	0.140	0.312	0.500	0.062	0.138	#6	1,000
WS0530A	0.141	0.187	0.312	0.062	0.031	#6	1,000
WS0540A	0.141	0.214	0.375	0.040	0.046	#6	1,000
WS0550A	0.142	0.205	0.265	0.031	0.156	#6	1,000
WS0560A	0.142	0.210	0.312	0.060	0.250	#6	1,000
WS0570A	0.144	0.189	0.312	0.030	0.060	#6	1,000
WS0580A	0.145	0.240	0.385	0.062	0.031	#6	1,000
WS0590A	0.145	0.245	0.375	0.030	0.060	#6	1,000
WS0600A	0.145	0.275	0.500	0.093	0.046	#6	1,000
WS0610A	0.147	0.172	0.312	0.062	0.187	#6	1,000
WS0620A	0.150	0.190	0.230	0.025	0.100	#6	1,000
WS0630A	0.150	0.250	0.750	0.062	0.250	#6	1,000
WS0640A	0.155	0.245	0.377	0.050	0.050	#6	1,000
WS0650A	0.156	0.250	0.315	0.062	0.187	#6	1,000
WS0660A	0.167	0.250	0.500	0.125	0.437	#6	1,000
WS0670A	0.171	0.195	0.375	0.031	0.062	#8	1,000
WS0680A	0.171	0.209	0.345	0.062	0.047	#8	1,000
WS0690A	0.171	0.250	0.510	0.062	0.406	#8	1,000
WS0700A	0.171	0.250	0.375	0.062	0.031	#8	1,000
WS0710A	0.171	0.250	0.375	0.040	0.046	#8	1,000
WS0720A	0.171	0.250	0.375	0.040	0.250	#8	1,000
WS0730A	0.171	0.281	0.390	0.055	0.312	#8	1,000
WS0740A	0.172	0.375	0.750	0.093	0.125	#8	1,000
WS0750A	0.173	0.205	0.345	0.062	0.375	#8	1,000
WS0760A	0.174	0.250	0.375	0.063	0.030	#8	1,000
WS0770A	0.175	0.235	0.344	0.063	0.120	#8	1,000
WS0780A	0.176	0.201	0.372	0.062	0.387	#8	1,000
WS0790A	0.187	0.245	0.375	0.031	0.140	#8	1,000
WS0800A	0.188	0.312	0.562	0.062	0.250	#8	1,000
WS0810A	0.188	0.313	0.437	0.062	0.062	#8	1,000
WS0820A	0.188	0.375	0.562	0.062	0.438	#8	1,000
WS0830A	0.189	0.250	0.500	0.062	0.249	#8	1,000
WS0840A	0.189	0.490	0.750	0.095	0.779	#8	1,000
WS0850A	0.190	0.250	0.490	0.062	0.156	#8	1,000

Item No.	A In	B In	C In	D In	E In	Screw	Pack Qty.
WS0880A	0.191	0.312	0.513	0.062	0.375	#8	1,000
WS0890A	0.192	0.245	0.375	0.046	0.046	#8	1,000
WS0900A	0.193	0.250	0.290	0.015	0.125	#8	1,000
WS0910A	0.193	0.257	0.375	0.035	0.043	#8	1,000
WS0920A	0.194	0.375	0.437	0.040	0.093	#10	1,000
WS0930A	0.196	0.250	0.312	0.062	0.031	#10	1,000
WS0940A	0.196	0.254	0.380	0.065	0.125	#10	1,000
WS0950A	0.196	0.287	0.390	0.078	0.187	#10	1,000
WS0970A	0.196	0.300	0.500	0.120	0.158	#10	1,000
WS0980A	0.196	0.303	0.432	0.031	0.140	#10	1,000
WS0990A	0.196	0.308	0.381	0.062	0.031	#10	1,000
WS1010A	0.197	0.240	0.408	0.062	0.187	#10	1,000
WS1020A	0.197	0.250	0.375	0.062	0.213	#10	1,000
WS1030A	0.197	0.252	0.394	0.063	0.315	#10	1,000
WS1040A	0.197	0.315	0.394	0.079	0.197	#10	1,000
WS1050A	0.200	0.260	0.399	0.062	0.375	#10	1,000
WS1060A	0.200	0.260	0.390	0.062	0.130	#10	1,000
WS1070A	0.200	0.281	0.490	0.062	0.093	#10	1,000
WS1080A	0.200	0.281	0.422	0.050	0.160	#10	1,000
WS1090A	0.200	0.312	0.500	0.062	0.312	#10	1,000
WS1100A	0.200	0.312	0.495	0.065	0.187	#10	1,000
WS1110A	0.201	0.281	0.437	0.046	0.046	#10	1,000
WS1120A	0.203	0.267	0.438	0.031	0.093	#10	1,000
WS1130A	0.203	0.267	0.438	0.062	0.093	#10	1,000
WS1140A	0.203	0.298	1.000	0.062	0.062	#10	1,000
WS1150A	0.203	0.313	0.390	0.078	0.078	#10	1,000
WS1160A	0.205	0.312	0.620	0.046	0.046	#10	1,000
WS1170A	0.218	0.250	0.320	0.039	0.126	#10	1,000
WS1190A	0.220	0.240	0.408	0.062	0.187	#12	1,000
WS1200A	0.221	0.256	0.394	0.039	0.126	#12	1,000
WS1210A	0.225	0.282	0.437	0.062	0.375	#12	1,000
WS1220A	0.234	0.282	0.745	0.031	0.187	#12	1,000
WS1230A	0.234	0.282	0.500	0.031	0.093	#12	1,000
WS1240A	0.236	0.315	0.355	0.020	0.177	#12	1,000
WS1250A	0.250	0.310	0.425	0.062	0.062	1/4	1,000
WS1260A	0.250	0.370	0.600	0.125	0.125	1/4	1,000
WS1270A	0.250	0.375	0.500	0.062	0.437	1/4	1,000
WS1280A	0.250	0.620	0.875	0.125	0.375	1/4	1,000
WS1290A	0.252	0.312	0.500	0.062	0.031	1/4	1,000
WS1300A	0.252	0.346	0.615	0.062	0.065	1/4	1,000
WS1310A	0.253	0.312	0.375	0.062	0.031	1/4	1,000
WS1330A	0.254	0.375	0.630	0.062	0.187	1/4	1,000
WS1340A	0.255	0.312	0.467	0.046	0.125	1/4	1,000
WS1350A	0.255	0.322	0.625	0.062	0.187	1/4	1,000
WS1380A	0.255	0.375	0.562	0.062	0.437	1/4	1,000
WS1390A	0.255	0.375	0.550	0.062	0.562	1/4	1,000
WS1410A	0.257	0.343	0.505	0.062	0.093	1/4	1,000
WS1420A	0.257	0.375	0.500	0.125	0.170	1/4	1,000
WS1440A	0.260	0.300	0.562	0.046	0.104	1/4	1,000
WS1450A	0.260	0.312	0.515	0.062	0.140	1/4	1,000
WS1460A	0.260	0.312	0.500	0.032	0.187	1/4	1,000
WS1470A	0.260	0.370	0.513	0.062	0.250	1/4	1,000
WS1480A	0.260	0.375	0.562	0.093	0.062	1/4	1,000
WS1490A	0.260	0.375	0.625	0.125	0.812	1/4	1,000
WS1500A	0.260	0.385	0.740	0.140	0.687	1/4	1,000
WS1510A	0.260	0.400	0.620	0.125	0.750	1/4	1,000
WS1520A	0.265	0.370					



**MNI
Shoulder Washer**



Specifications:

- Material: UL94 V-2 Nylon 6/6, Color: Natural

Features:

- Used as a screw insulator and in many bushing applications
- Lightweight
- Resistant to corrosion and abrasion
- High dielectric strength

Item No.	Fits Screw	"L"	Ø "A"	"B"	"C" O.D.	"D" I.D.	Pack Qty.
MNI-2-2	#2 (M2)	.031 (0.8)	.181 (4.6)	.047 (1.2)	.120 (3)	.090 (2.3)	1,000
MNI-2-4	#2 (M2)	.063 (1.6)	.181 (4.6)	.047 (1.2)	.120 (3)	.090 (2.3)	1,000
MNI-4-2	#4 (M2.5)	.031 (0.8)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-3	#4 (M2.5)	.046 (1.2)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-4	#4 (M2.5)	.063 (1.6)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-5	#4 (M2.5)	.084 (2.1)	.252 (6.4)	.047 (1.2)	.140 (3.6)	.115 (2.9)	1,000
MNI-4-6	#4 (M2.5)	.093 (2.4)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-8	#4 (M2.5)	.125 (3.2)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-10	#4 (M2.5)	.156 (4)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-12	#4 (M2.5)	.187 (4.7)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-16	#4 (M2.5)	.250 (6.4)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-4-24	#4 (M2.5)	.375 (9.5)	.235 (6)	.047 (1.2)	.145 (3.7)	.115 (2.9)	1,000
MNI-5-3	#5 (M3)	.051 (1.3)	.370 (9.4)	.047 (1.2)	.236 (6)	.128 (3.3)	1,000
MNI-6-2	#6 (M3.5)	.031 (0.8)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-6-4	#6 (M3.5)	.063 (1.6)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-6-6	#6 (M3.5)	.093 (2.4)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-6-8	#6 (M3.5)	.125 (3.2)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-6-12	#6 (M3.5)	.187 (4.7)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-6-16	#6 (M3.5)	.250 (6.4)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-6-24	#6 (M3.5)	.375 (9.5)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-6-32	#6 (M3.5)	.500 (12.7)	.290 (7.4)	.047 (1.2)	.170 (4.3)	.140 (3.6)	1,000
MNI-8-2	#8 (M4)	.031 (0.8)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-8-4	#8 (M4)	.063 (1.6)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-8-6	#8 (M4)	.093 (2.4)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-8-8	#8 (M4)	.125 (3.2)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-8-12	#8 (M4)	.187 (4.7)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-8-16	#8 (M4)	.250 (6.4)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-8-24	#8 (M4)	.375 (9.5)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-8-32	#8 (M4)	.500 (12.7)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)	1,000
MNI-10-4	#10 (M5)	.063 (1.6)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)	1,000
MNI-10-6	#10 (M5)	.093 (2.4)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)	1,000
MNI-10-8	#10 (M5)	.125 (3.2)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)	1,000
MNI-10-12	#10 (M5)	.187 (4.7)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)	1,000
MNI-10-16	#10 (M5)	.250 (6.4)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)	1,000
MNI-10-24	#10 (M5)	.375 (9.5)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)	1,000
MNI-10-32	#10 (M5)	.500 (12.7)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)	1,000
MNI1/4-6	1/4 (M6)	.093 (2.4)	.513 (13)	.065 (1.7)	.312 (7.9)	.260 (6.6)	1,000
MNI1/4-12	1/4 (M6)	.187 (4.7)	.513 (13)	.065 (1.7)	.312 (7.9)	.260 (6.6)	1,000
MNI1/4-16	1/4 (M6)	.250 (6.4)	.513 (13)	.065 (1.7)	.312 (7.9)	.260 (6.6)	1,000
MNI1/4-24	1/4 (M6)	.375 (9.5)	.513 (13)	.065 (1.7)	.312 (7.9)	.260 (6.6)	1,000
MNI1/4-32	1/4 (M6)	.500 (12.7)	.513 (13)	.065 (1.7)	.312 (7.9)	.260 (6.6)	1,000
MNI5/16-6	5/16 (M8)	.093 (2.4)	.620 (15.7)	.063 (1.6)	.360 (9.1)	.320 (8.1)	1,000
MNI5/16-12	5/16 (M8)	.187 (4.7)	.620 (15.7)	.063 (1.6)	.360 (9.1)	.320 (8.1)	1,000
MNI5/16-16	5/16 (M8)	.250 (6.4)	.620 (15.7)	.063 (1.6)	.360 (9.1)	.320 (8.1)	1,000
MNI-M2.5-1.3	#2 (M2.5)	.051 (1.3)	.248 (6.3)	.047 (1.2)	.138 (3.5)	.114 (2.9)	1,000
MNI-M2.5-3.6	#2 (M2.5)	.142 (3.6)	.280 (7.1)	.059 (1.5)	.150 (3.8)	.110 (2.8)	1,000
MNIM3-1.0	#4 (M3)	.039 (1)	.280 (7.1)	.039 (1)	.150 (3.8)	.122 (3.1)	1,000
MNIM3-1.3	#4 (M3)	.051 (1.3)	.347 (8.8)	.047 (1.2)	.236 (6)	.126 (3.2)	1,000
MNIM3-2.5	#4 (M3)	.098 (2.5)	.280 (7.1)	.039 (1)	.150 (3.8)	.122 (3.1)	1,000
MNIM3-3.5	#4 (M3)	.137 (3.5)	.280 (7.1)	.039 (1)	.150 (3.8)	.122 (3.1)	1,000



ACCESS HARDWARE



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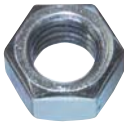
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Grade 2 Hex Nuts



For general automotive and equipment repair and maintenance. This type of nut has the widest range of application. Zinc chromate finish. For use with Grade 5 cap screws. Meets or exceeds ANSI B18.2.2 and SAE J995 standards.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4152-029	1/4-20	7/16	7/32	100
ROC-4152-030	5/16-18	1/2	17/64	100
ROC-4152-031	3/8-16	9/16	21/64	100
ROC-4152-032	7/16-14	11/16	3/8	50
ROC-4152-033	1/2-13	3/4	7/16	50
ROC-4152-034	9/16-12	7/8	31/64	25
ROC-4152-035	5/8-11	15/16	39/64	25
ROC-4152-036	3/4-10	1 1/8	41/64	20
ROC-4152-037	7/8-9	1 1/16	3/4	15
ROC-4152-038	1-8	1 1/2	55/64	10
Fine Thread				
ROC-4252-029	1/4-28	7/16	7/32	100
ROC-4252-030	5/16-24	1/2	17/64	100
ROC-4252-031	3/8-24	9/16	21/64	100
ROC-4252-032	7/16-20	11/16	3/8	50
ROC-4252-033	1/2-20	3/4	7/16	50
ROC-4252-034	9/16-18	7/8	31/64	25
ROC-4252-035	5/8-18	15/16	39/64	25
ROC-4252-036	3/4-16	1 1/8	41/64	20
ROC-4252-037	7/8-14	1 1/16	3/4	15
ROC-4252-038	1-14	1 1/2	55/64	10

Grade 5 Hex Nuts



Medium carbon steel. Zinc chromate. Designed for use with Grade 5 cap screws. Meets or exceeds ANSI B18.2.2 and SAE J995 standards. Proof Load 120,000 PSI.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4181-029	1/4-20	7/16	7/32	100
ROC-4181-030	5/16-18	1/2	17/64	100
ROC-4181-031	3/8-16	9/16	21/64	100
ROC-4181-032	7/16-14	11/16	3/8	50
ROC-4181-033	1/2-13	3/4	7/16	50
ROC-4181-034	9/16-12	7/8	31/64	25
ROC-4181-035	5/8-11	15/16	39/64	25
ROC-4181-036	3/4-10	1 1/8	41/64	20
ROC-4181-037	7/8-9	1 1/16	3/4	15
ROC-4181-038	1-8	1 1/2	55/64	10
Fine Thread				
ROC-4281-029	1/4-28	7/16	7/32	100
ROC-4281-030	5/16-24	1/2	17/64	100
ROC-4281-031	3/8-24	9/16	21/64	100
ROC-4281-032	7/16-20	11/16	3/8	50
ROC-4281-033	1/2-20	3/4	7/16	50
ROC-4281-034	9/16-18	7/8	31/64	25
ROC-4281-035	5/8-18	15/16	39/64	25
ROC-4281-036	3/4-16	1 1/8	41/64	20
ROC-4281-037	7/8-14	1 1/16	3/4	15
ROC-4281-038	1-14	1 1/2	55/64	10

Grade 8 Finished Hex Nuts

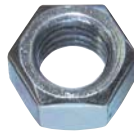


High strength alloy steel nuts deliver an extra margin of safety in critical applications. Meets or exceeds all ASME/ANSI B18.2.2 K and SAE J995 standards for tensile strength and

hardness. Zinc gold chromate plating provides superior corrosion resistance. Should be used with Grade 8 cap screws. UNC-USS coarse thread and UNF-SAE fine thread.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4752-029	1/4-20	7/16	7/32	100
ROC-4752-030	5/16-18	1/2	17/64	100
ROC-4752-031	3/8-16	9/16	21/64	100
ROC-4752-032	7/16-14	11/16	3/8	50
ROC-4752-033	1/2-13	3/4	7/16	50
ROC-4752-034	9/16-12	7/8	31/64	25
ROC-4752-035	5/8-11	15/16	39/64	25
ROC-4752-036	3/4-10	1 1/8	41/64	20
ROC-4752-037	7/8-9	1 1/16	3/4	15
ROC-4752-038	1-8	1 1/2	55/64	10
Fine Thread				
ROC-4852-029	1/4-28	7/16	7/32	100
ROC-4852-030	5/16-24	1/2	17/64	100
ROC-4852-031	3/8-24	9/16	21/64	100
ROC-4852-032	7/16-20	11/16	3/8	50
ROC-4852-033	1/2-20	3/4	7/16	50
ROC-4852-034	9/16-18	7/8	31/64	25
ROC-4852-035	5/8-18	15/16	39/64	25
ROC-4852-036	3/4-16	1 1/8	41/64	20

Heavy Hex Nuts



A thicker version of finished steel hex nuts for higher stress applications. UNC-USS coarse thread with zinc chromate finish. Meets or exceeds ASTM F812, SAE J122a, ASME/ANSI B18.2.2 and SAE J995 standards.

Item No.	Size	Width Across Flats	Height	Pack Qty.
ROC-4156-029	1/4-20	1/2	15/64	100
ROC-4156-030	5/16-18	9/16	19/64	100
ROC-4156-031	3/8-16	1 1/16	23/64	100
ROC-4156-032	7/16-14	3/4	27/64	50
ROC-4156-033	1/2-13	7/8	31/64	50
ROC-4156-034	9/16-12	15/16	35/64	25
ROC-4156-035	5/8-11	1 1/16	39/64	25
ROC-4156-036	3/4-10	1 1/4	47/64	20
ROC-4156-037	7/8-9	1 7/16	31/64	15
ROC-4156-038	1-8	1 5/8	35/64	10

Hex Jam Nuts



Thin nuts used under full nuts to create a locking action. Steel with zinc chromate finish. UNC-USS coarse thread and UNF-SAE fine thread. Meets or exceeds ASTM F812, SAE J122a, J995 and ASME/ANSI B18.2.2 standards.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4153-029	1/4-20	7/16	5/32	100
ROC-4153-030	5/16-18	1/2	3/16	100
ROC-4153-031	3/8-16	9/16	7/32	100
ROC-4153-032	7/16-14	11/16	1/4	50
ROC-4153-033	1/2-13	3/4	5/16	50
ROC-4153-035	5/8-11	15/16	3/8	25
ROC-4153-036	3/4-10	1 1/8	27/64	20
ROC-4153-038	1-8	1 1/2	35/64	10
Fine Thread				
ROC-4253-029	1/4-28	7/16	5/32	100
ROC-4253-030	5/16-24	1/2	3/16	100
ROC-4253-031	3/8-24	9/16	7/32	100
ROC-4253-032	7/16-20	11/16	1/4	50
ROC-4253-033	1/2-20	3/4	5/16	50
ROC-4253-034	9/16-18	7/8	5/16	25
ROC-4253-035	5/8-18	15/16	3/8	25
ROC-4253-036	3/4-16	1 1/8	27/64	20

Heavy Hex Jam Nuts



Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4157-029	1/4-20	1/4	1 1/64	100
ROC-4157-030	5/16-18	9/16	13/16	100
ROC-4157-031	3/8-16	1 1/16	15/64	100
ROC-4157-032	7/16-14	3/4	17/64	50
ROC-4157-033	1/2-13	7/8	19/64	50

Hex Machine Screw Nuts



Used with machine screws, stove bolts and studs in light assemblies. Zinc chromate finish. UNC-USS coarse thread and UNF-SAE fine thread. Meets or exceeds ASTM B18.6.3 standards.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4150-003	3-56	.188	.066	100
ROC-4150-005	4-40	.250	.098	100
ROC-4150-006	5-40	.312	.114	100
ROC-4150-007	6-32	.312	.114	100
ROC-4150-009	8-32	.343	.130	100
ROC-4150-011	10-24	.375	.130	100
ROC-4150-013	12-24	.437	.161	100
Fine Thread				
ROC-4250-011	10-32	.375	.130	100
ROC-4250-029	1/4-28	.437	.193	100



Metric Class 8 Hex Nuts



Metric Property Class 8. Zinc chromate finish. Meets or exceeds ANSI/ASME B18.2.4.1 standards. Metric dimensions in millimeters.

Item No.	Size	Width Across Flats	Height (mm)	Pack Qty.
Standard Thread				
ROC-2803-004	M4 x .70	7.00	3.20	50
ROC-2803-005	M5 x .80	8.00	4.70	50
ROC-2803-006	M6 x 1.00	10.00	5.20	50
ROC-2803-007	M7 x 1.00	11.00	5.50	50
ROC-2803-008	M8 x 1.25	13.00	6.80	50
ROC-2803-010	M10 x 1.50	16.00	8.40	50
ROC-2803-012	M12 x 1.75	18.00	10.80	50
ROC-2803-014	M14 x 2.00	21.00	12.80	25
ROC-2803-016	M16 x 2.00	24.00	14.80	25
ROC-2803-018	M18 x 2.50	27.00	15.00	20
ROC-2803-020	M20 x 2.50	30.00	18.00	15
ROC-2803-024	M24 x 3.00	36.00	21.50	10
Fine Thread				
ROC-2804-701	M8 x 1.00	13.00	6.80	50
ROC-2804-703	M10 x 1.25	16.00	8.40	50
ROC-2804-705	M12 x 1.50	18.00	10.80	50
ROC-2804-707	M14 x 1.50	21.00	12.80	25
Extra Fine Thread				
ROC-2804-702	M10 x 1.00	17.00	8.40	50
ROC-2804-704	M12 x 1.25	18.00	10.80	50

Metric Class 10 Hex Nuts



Medium carbon steel. For use with Property Class 10.9 cap screws. Metric dimensions in millimeters.

Item No.	Size	Width Across Flats	Height (mm)	Pack Qty.
ROC-2827-006	M6 x 1.00	10.00	5.20	50
ROC-2827-008	M8 x 1.25	13.00	6.80	50
ROC-2827-010	M10 x 1.50	16.00	8.40	50
ROC-2827-012	M12 x 1.75	18.00	10.80	50
ROC-2827-014	M14 x 2.00	21.00	12.80	25
ROC-2827-016	M16 x 2.00	24.00	14.80	25

Square Machine Screw Nuts



For space limited applications. Meets or exceeds ANSI/ASME B18.6.3 standards.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4151-007	6-32	.442	.114	100
ROC-4151-009	8-32	.484	.130	100
ROC-4151-011	10-24	.530	.130	100
ROC-4151-029	1/4-20	.430	.193	100
ROC-4151-030	5/16-18	.795	.225	100
ROC-4151-031	3/8-16	.884	.257	100
Fine Thread				
ROC-4251-011	10-32	.530	.130	100

Metric Nylon Insert Locknuts



High-quality locknut with nylon insert. Positive locking. Withstands up to 250 degree Fahrenheit. Zinc chromate finish. Designed for use with 8.8 fasteners.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Standard Thread				
ROC-2823-004	M4 x .70	7	5	25
ROC-2823-005	M5 x .80	8	5	25
ROC-2823-006	M6 x 1.00	10	6	25
ROC-2823-007	M7 x 1.00	11	7.5	25
ROC-2823-008	M8 x 1.25	13	8	25
ROC-2823-010	M10 x 1.50	17	10	15
ROC-2823-012	M12 x 1.75	19	12	15
ROC-2823-014	M14 x 2.00	22	14	15
ROC-2823-016	M16 x 2.00	24	16	15
ROC-2823-020	M20 x 2.50	30	20	5
Fine Thread				
ROC-2824-701	M8 x 1.00	13	8	25
ROC-2824-703	M10 x 1.25	17	10	15
ROC-2824-705	M12 x 1.50	19	12	15
ROC-2824-707	M14 x 1.50	22	14	15
Extra Fine Thread				
ROC-2824-702	M10 x 1.00	17	10	15
ROC-2824-704	M12 x 1.25	19	12	15

Metric Lock Nuts - Class 10



Prevailing torque type. Zinc gold chromate. Medium carbon steel. For use with Property Class 10.9 and 8.8 fasteners.

Item No.	Size	Width Across Flats	Height	Pack Qty.
ROC-2835-006	M6 x 1.00	10	6	50
ROC-2835-008	M8 x 1.25	13	8	50
ROC-2835-010	M10 x 1.50	17	10	50
ROC-2835-012	M12 x 1.75	19	12	50
ROC-2835-014	M14 x 2.00	22	14	25
ROC-2835-016	M16 x 2.00	24	16	25

Rod Coupling Nuts



Fully threaded hex nut used for connecting standard threaded rod. Zinc chromate plated minimum tensile strength 50,000 PSI.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread Zinc Plated				
ROC-CN-002	1/4-20	3/8	7/8	100
ROC-CN-004	5/16-18	7/16	15/16	50
ROC-CN-006	3/8-16	5/8	1 3/4	50
ROC-CN-008	1/2-13	5/8	1 1/4	50

Brass Hex Machine Screw Nuts



For light assemblies. Solid brass. Meets or exceeds ASME/ANSI B18.6.3 standards.

Item No.	Size	Pack Qty.
Coarse Thread		
ROC-4350-007	6-32	100
ROC-4350-009	8-32	100
ROC-4350-011	10-24	100
ROC-4350-029	1/4-20	100
ROC-4350-031	3/8-16	100
Fine Thread		
ROC-4450-011	10-32	100



FASTENERS
LOCK NUTS

Buy One or
Buy Bulk & SAVE

Nylon Insert Locknuts



Locknut with nylon insert. Positive locking. Withstands up to 250 degree Fahrenheit. Zinc chromate finish. UNC-USS coarse thread and UNF-SAE fine thread.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-NIN-046	4-40	1/4	9/64	100
ROC-NIN-048	6-32	5/16	1/64	100
ROC-NIN-050	8-32	11/32	15/64	100
ROC-NIN-3	10-24	3/8	15/64	100
ROC-NIN-052	12-24	7/16	5/16	100
ROC-NIN-4	1/4-20	7/16	5/16	100
ROC-NIN-5	5/16-18	1/2	11/32	100
ROC-NIN-6	3/8-16	9/16	29/64	100
ROC-NIN-7	7/16-14	5/8	29/64	50
ROC-NIN-8	1/2-13	3/4	19/32	50
ROC-NIN-9	9/16-12	7/8	41/64	25
ROC-NIN-10	5/8-11	15/16	3/4	25
ROC-NIN-12	3/4-10	1 1/16	7/8	20
ROC-NIN-14	7/8-8	1 1/4	63/64	15
ROC-NIN-16	1-8	1 1/2	1 1/64	10
Fine Thread				
ROC-NIN-23	10-32	3/8	15/64	100
ROC-NIN-24	1/4-28	7/16	5/16	100
ROC-NIN-25	5/16-24	9/16	11/32	100
ROC-NIN-26	3/8-24	1 1/16	29/64	100
ROC-NIN-27	7/16-20	1 1/16	29/64	50
ROC-NIN-28	1/2-20	3/4	19/32	50
ROC-NIN-29	9/16-18	5/8	41/64	25
ROC-NIN-30	5/8-18	15/16	3/4	25
ROC-NIN-32	3/4-16	1 1/16	7/8	20
ROC-NIN-34	7/8-14	1 1/4	63/64	15
ROC-NIN-36	1-14	1 1/2	1 1/64	10

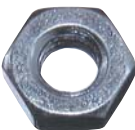
Keys Nuts With External Tooth Washer



Standard finished hex nut with free spinning external tooth washer. Washer helps eliminate vibration.

Item No.	Size	Width Across Flats	Height	Pack Qty.
ROC-KWN-006	6-32	5/16	.114	100
ROC-KWN-008	8-32	11/32	.130	100
ROC-KWN-010	10-24	3/8	.130	100
ROC-KWN-014	1/4-20	7/16	.193	100
ROC-KWN-016	5/16-18	1/2	.273	100
ROC-KWN-012	10-32	3/8	.130	100

Stainless Steel Hex Nuts



Medium-duty, general purpose nuts for automotive and equipment repair/maintenance jobs requiring high resistance to corrosion. Meets or exceeds ASME/ANSI B18.2.2 standards. 18-8 stainless steel.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4952-029	1/4-20	7/16	7/32	100
ROC-4952-030	5/16-18	1/2	1/64	100
ROC-4952-031	3/8-16	9/16	21/64	100
ROC-4952-032	7/16-14	1 1/16	3/8	100
ROC-4952-033	1/2-13	3/4	7/16	100
ROC-4952-035	5/8-11	15/16	31/64	25
ROC-4952-036	3/4-10	1 1/8	3/64	20

Stainless Steel Machine Screw Nuts



For light-duty fastening jobs requiring the corrosion resistance of stainless steel. Meets or exceeds ASME/ANSI B18.6.3 standards. 18-8 stainless steel.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4951-005	4-40	.250	.098	100
ROC-4951-007	6-32	.312	.114	100
ROC-4951-009	8-32	.343	.130	100
ROC-4951-011	10-24	.375	.130	100
ROC-4951-013	12-24	.437	.161	100
ROC-4951-029	1/4-20	.437	.193	100
Fine Thread				
ROC-4961-011	10-32	.375	.130	100

Grade C Prevailing Torque Locknuts



Grade C torque nuts specifically designed for use with Grade 8 cap screws. Zinc chromate plated for superior corrosion resistance. Meets or exceeds IFI 100 / 107 and IFI 101 standards.

Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4767-029	1/4-20	7/16	.145	100
ROC-4767-030	5/16-18	1/2	.166	100
ROC-4767-031	3/8-16	9/16	.198	100
ROC-4767-032	7/16-14	1 1/16	.223	50
ROC-4767-033	1/2-13	3/4	.262	50
ROC-4767-034	9/16-12	7/8	.286	25
ROC-4767-035	5/8-11	15/16	.329	25
ROC-4767-036	3/4-10	1 1/8	.382	20
ROC-4767-037	7/8-9	1 3/8	.450	15
ROC-4767-038	1-8	1 1/2	.513	10
Fine Thread				
ROC-4867-029	1/4-28	7/16	.145	100
ROC-4867-030	5/16-24	1/2	.166	100
ROC-4867-031	3/8-24	9/16	.198	100
ROC-4867-032	7/16-20	1 1/16	.223	50
ROC-4867-033	1/2-20	3/4	.262	50
ROC-4867-034	9/16-18	7/8	.286	25
ROC-4867-035	5/8-18	15/16	.329	25
ROC-4867-036	3/4-16	1 1/8	.382	20
ROC-4867-037	7/8-14	1 3/8	.450	15
ROC-4867-038	1-14	1 1/2	.513	10

Serrated Flange Locknuts - Coarse Thread



Case hardened. Grade 2. Serrations on washer face provide positive locking action.

Item No.	Size	Pack Qty.
ROC-2705-029	1/4-20	100
ROC-2705-030	5/16-18	100
ROC-2705-031	3/8-16	100
ROC-2705-032	7/16-14	100
ROC-2705-033	1/2-13	100

Stainless Steel Nylon Insert Locknuts

High-quality locknut that combines high corrosion resistance with positive locking action. 18-8 stainless steel.



Item No.	Size	Width Across Flats	Height	Pack Qty.
Coarse Thread				
ROC-4978-007	6-32	5/16	11/64	100
ROC-4978-009	8-32	11/32	15/64	100
ROC-4978-011	10-24	3/8	15/64	100
ROC-4978-029	1/4-20	7/16	9/16	100
ROC-4978-030	5/16-18	1/2	11/32	100
ROC-4978-031	3/8-16	9/16	29/64	100
ROC-4978-033	1/2-13	3/4	19/32	50
ROC-4978-035	5/8-11	15/16	3/4	25
ROC-4978-036	3/4-10	1 1/8	7/8	20
Fine Thread				
ROC-4988-011	10-32	3/8	15/64	100

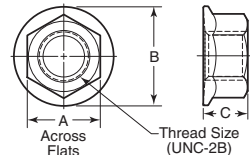
Spinner-Grip Flange Lock Nuts



Plain Finish



Zinc Plated

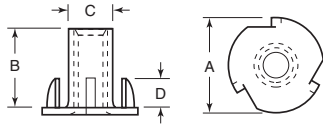


Free spinning installation eliminates the need to wrench the nut down the fastener. Locks to the part, not the threads. Grade 8 strength. Excellent performance in applications with heavy vibration. Flat washers not needed, unless in a slotted application.

Plain Finish		Zinc Plated		Thread Size	A	B	C	Pack Qty.
Item No.	Item No.							
Inch								
JSW-1	JSW-13	1/4-20	7/16	19/32	1/4	1		1
JSW-2	JSW-14	5/16-18	1/2	11/16	9/32	1		1
JSW-3	JSW-15	3/8-16	9/16	3/4	11/32	1		1
JSW-4	JSW-16	7/16-14	1 1/16	15/16	3/8	1		1
JSW-5	JSW-17	1/2-13	3/4	1	7/16	1		1
JSW-6	JSW-18	5/8-11	15/16	1 1/4	9/16	1		1
JSW-7	JSW-19	3/4-10	1 1/4	1 1/2	11/16	1		1
Metric								
JSW-8	JSW-20	M6 x 1.00	10	15.1	6.0	1		1
JSW-9	JSW-21	M8 x 1.25	13	19.0	8.8	1		1
JSW-10	JSW-22	M10 x 1.50	15	24.1	10.0	1		1
JSW-11	JSW-23	M12 x 1.75	19	25.5	11.6	1		1
JSW-12	JSW-24	M16 x 2.00	24	38.0	17.2	1		1



Three Prong Tee-Nuts



Put steel threads in wood without counter boring. Drill hole in wood and hammer until tee nut is flush with wood. Straight barrel zinc plated steel. Material thickness is thickness of the flange.

Item No.	Thread	A	B	C	D	Material Thickness	Drill Size	Pack Qty.
WN-105	10-24	$\frac{23}{32}$	$\frac{5}{16}$	.236	.200	.039	$\frac{7}{32}$	100
WN-110	$\frac{1}{4}$ -20	$\frac{3}{4}$	$\frac{5}{16}$	.305	$\frac{7}{32}$	.043	$\frac{5}{16}$	100
WN-115	$\frac{1}{4}$ -20	$\frac{3}{4}$	$\frac{7}{16}$	.305	$\frac{5}{16}$	.043	$\frac{5}{16}$	100
WN-120	$\frac{1}{4}$ -20	$\frac{3}{4}$	$\frac{9}{16}$	.305	$\frac{7}{32}$	.047	$\frac{5}{16}$	100
WN-125	$\frac{3}{16}$ -18	$\frac{7}{8}$	$\frac{3}{8}$	.370	$\frac{1}{4}$	.059	$\frac{3}{8}$	100
WN-130	$\frac{3}{16}$ -18	$\frac{7}{8}$	$\frac{5}{8}$	.370	$\frac{5}{16}$	.059	$\frac{3}{8}$	100
WN-135	$\frac{3}{8}$ -16	1	$\frac{7}{16}$	.440	$\frac{5}{16}$	.063	$\frac{29}{64}$	100

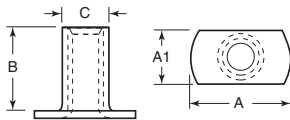
Steel Weld Nuts



Round Base



Slab Base

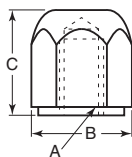


Used in metalwork or for leveling appliances. Round or slab bases. Material thickness is thickness of the flange.

Item No.	Thread	A	A1	B	C	Material Thickness	Pack Qty.
Round Base							
WN-205	$\frac{1}{4}$ -20	$\frac{3}{4}$	—	$\frac{5}{16}$	.305	.047	100
Slab Base							
WN-305	$\frac{1}{4}$ -20	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{5}{16}$	.305	.047	100

Acorn Nuts

Steel and Type 303 Stainless Steel



Steel Item No.	Stainless Item No.	A	Hex B	C	Pack Qty.
MAN-0	MAN-10	$\frac{5}{16}$ -18	$\frac{3}{8}$	$\frac{5}{8}$	1
MAN-1	MAN-11	$\frac{3}{8}$ -16	$\frac{3}{4}$	$\frac{3}{4}$	1
MAN-2	MAN-12	$\frac{1}{2}$ -13	$\frac{7}{8}$	$\frac{15}{16}$	1
MAN-4	MAN-14	$\frac{3}{4}$ -10	$1\frac{1}{4}$	$1\frac{1}{8}$	1

Wing Nuts



Style A



Style B



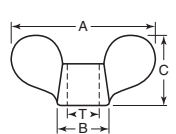
Style C



Style D



Style E



These wing nuts are made from malleable iron with a tumbled finish. Used for fastening, construction of jigs and fixtures, tooling and special applications.

Item No.	Thread	A	B	C	Pack Qty.	Item No.	Thread	A	B	C	Pack Qty.
Style A						Style D					
MIN-1	10-24	$1\frac{3}{16}$	$\frac{9}{16}$	$1\frac{1}{16}$	1	MIN-21	$\frac{1}{4}$ -20	$\frac{7}{8}$	$1\frac{3}{32}$	$\frac{1}{2}$	1
Style B						Style E					
MIN-2	$\frac{1}{4}$ -20	$1\frac{1}{8}$	$\frac{7}{16}$	$\frac{5}{8}$	1	MIN-23	$\frac{3}{8}$ -16	$1\frac{1}{8}$	$1\frac{3}{32}$	$\frac{5}{8}$	1
MIN-3	$\frac{5}{16}$ -18	$1\frac{1}{4}$	$1\frac{5}{32}$	$2\frac{1}{32}$	1	MIN-25	$\frac{1}{4}$ -20	3	1	$\frac{3}{4}$	1
MIN-4	$\frac{3}{8}$ -16	$1\frac{1}{2}$	$\frac{9}{16}$	$\frac{3}{4}$	1	MIN-26	$\frac{5}{16}$ -18	3	1	$\frac{3}{4}$	1
MIN-6	$\frac{1}{2}$ -13	2	$\frac{3}{4}$	$2\frac{29}{32}$	1	MIN-27	$\frac{3}{8}$ -16	3	1	$\frac{3}{4}$	1
Style C						MIN-28					
MIN-11	10-24	$1\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	1						
MIN-12	$\frac{1}{4}$ -20	$1\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	1						
MIN-13	$\frac{5}{16}$ -18	$1\frac{7}{16}$	$\frac{1}{2}$	$1\frac{1}{16}$	1						
MIN-15	$\frac{1}{2}$ -13	$2\frac{1}{4}$	$1\frac{3}{16}$	1	1						
MIN-16	$\frac{3}{8}$ -11	$2\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{3}{16}$	1						

Wing Nuts



Permit fast, easy assembly/disassembly by hand with easy-to-grip extended lugs. Cold forged for high strength. Zinc chromate finish. UNC-USS coarse thread. Meets or exceeds ASME/ANSI B18.17 standards.

Item No.	Size	Wing Spread	Height	Pack Qty.
Coarse Thread				
ROC-4162-007	6-32	$2\frac{29}{32}$	$1\frac{15}{32}$	100
ROC-4162-009	8-32	$2\frac{29}{32}$	$1\frac{15}{32}$	100
ROC-4162-011	10-24	$2\frac{29}{32}$	$1\frac{15}{32}$	100
ROC-4162-029	$\frac{1}{4}$ -20	$1\frac{3}{8}$	$\frac{9}{16}$	100
ROC-4162-030	$\frac{5}{16}$ -18	$1\frac{1}{4}$	$1\frac{21}{32}$	50
ROC-4162-031	$\frac{3}{8}$ -16	$1\frac{7}{16}$	$2\frac{25}{32}$	50
ROC-4162-033	$\frac{1}{2}$ -13	$1\frac{15}{16}$	1	25
Fine Thread				
ROC-4262-011	10-32	$2\frac{29}{32}$	$1\frac{15}{32}$	100

Metric Wing Nuts



Standard thread. Clear zinc chromate finish.

Item No.	Size	Wing Spread (mm)	Height	Pack Qty.
ROC-2830-006	M6 x 1.00	28.5	4.8	20
ROC-2830-008	M8 x 1.25	30	5.6	10

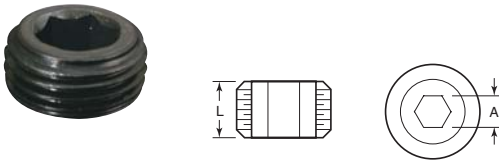
Stainless Steel Wing Nut



Item No.	Size	Pack Qty.
ROC-4962-029	$\frac{1}{4}$ -20	100



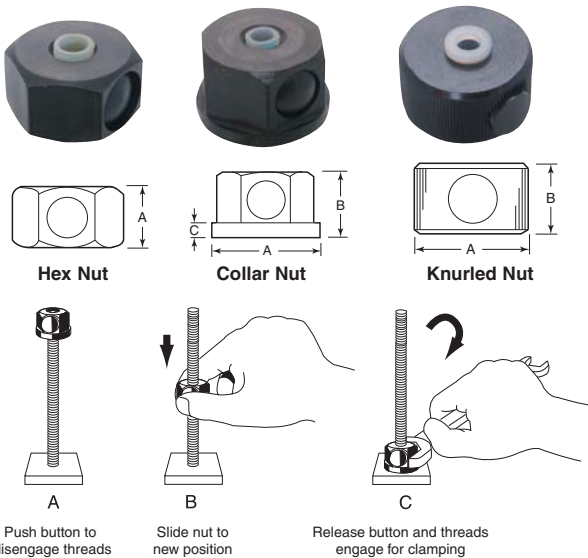
Hollow Lock Screws



Useful for adjusting spring compression, locking another set screw in place, holding pins for locating, etc. Heat treated alloy steel. Black finish. Class 3A threads.

Item No.	Thread	L	A	Pack Qty.	Item No.	Thread	L	A	Pack Qty.
Coarse Threads					Fine Threads				
MAC-620	6-32	3/32	1/16	1	MAC-750	7/16-20	7/32	7/32	1
MAC-635	1/4-20	1/8	1/8	1	MAC-755	1/2-20	1/4	1/4	1
MAC-640	5/16-18	5/32	5/32	1	MAC-760	5/8-18	5/16	5/16	1
MAC-645	3/8-16	3/16	3/16	1	MAC-765	3/4-16	3/8	3/8	1
MAC-650	7/16-14	7/32	7/32	1	MAC-770	7/8-14	7/16	1/2	1
MAC-655	1/2-13	1/4	1/4	1	MAC-775	1-12	1/2	9/16	1
MAC-660	5/8-11	5/16	5/16	1	MAC-780	1-14	1/2	9/16	1
MAC-670	7/8-9	7/16	1/2	1					

These button hole nuts allow for quick removal and threading on long thread lengths. Great for quick change overs. Made from carbon steel. Black oxide finish.



Button Thread Nuts Hex Nuts

See page 61 for button thread levers.

Item No.	Thread	Hex	A	Pack Qty.	Item No.	Thread	Hex	A	Pack Qty.
BCL-105	1/4-20	7/8	9/16	1	BCL-120	1/2-13	1 3/8	1 1/8	1
BCL-110	5/16-18	1	5/8	1	BCL-125	5/8-11	1 3/8	1 1/8	1
BCL-115	3/8-16	1	5/8	1					

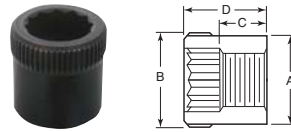
Button Thread Nuts Collar Nuts

Item No.	Thread	Hex	A	B	C	Pack Qty.
BCL-130	1/4-20	7/8	1	5/8	1/8	1
BCL-135	5/16-18	1	1 1/4	13/16	3/16	1
BCL-140	3/8-16	1	1 1/4	13/16	3/16	1
BCL-145	1/2-13	1 1/8	1 3/8	1 1/8	1/4	1
BCL-150	5/8-11	1 3/8	1 3/8	1 1/8	1/4	1

Button Thread Nuts Knurled Nuts

Item No.	Thread	A	B	Pack Qty.	Item No.	Thread	A	B	Pack Qty.
BCL-175	1/4-20	1	9/16	1	BCL-190	1/2-13	1 1/2	1 1/8	1
BCL-180	5/16-18	1 1/8	3/4	1	BCL-195	5/8-11	1 1/2	1 1/8	1
BCL-185	3/8-16	1 1/8	3/4	1					

Allenuts Steel and Stainless Steel

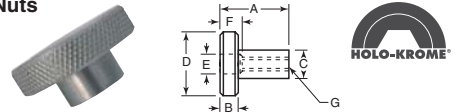


Available in heat treated steel and austenitic stainless steel.

Steel Item No.	Stainless Item No.	Thread	A	B	Min. C	D	Hex Size	Min. C/Bore	Pack Qty.
HAN-6032	HAN-6070	4-40	.185	.207	.080	.175	1/8	.202	1
HAN-6036	—	6-32	.255	.276	.100	.226	5/32	.270	1
HAN-6038	—	8-32	.277	.305	.125	.270	3/16	.298	1
HAN-6040	—	10-24	.304	.335	.170	.314	1/4	.327	1
HAN-7030	—	10-32	.304	.335	.170	.314	3/16	.327	1
HAN-6042	HAN-6078	1/4-20	.400	.427	.225	.414	1/2	.421	1
HAN-7032	—	1/4-28	.400	.427	.225	.414	1/4	.421	1
HAN-6044	HAN-6080	5/16-18	.495	.523	.285	.517	5/16	.516	1
HAN-7034	—	5/16-24	.495	.523	.285	.517	5/16	.516	1
HAN-6046	HAN-6082	3/8-16	.587	.617	.325	.613	3/8	.610	1
HAN-7036	—	3/8-24	.587	.617	.325	.613	3/8	.610	1
HAN-6048	—	7/16-14	.707	.740	.360	.725	7/16	.733	1
HAN-7040	—	1/2-20	.797	.839	.445	.828	1/2	.831	1
HAN-6052	—	5/8-11	.983	1.037	.500	1.002	5/8	1.028	1
HAN-7042	—	5/8-18	.983	1.037	.500	1.002	5/8	1.028	1
HAN-7044	—	3/4-16	1.155	1.212	.600	1.177	3/4	1.203	1
HAN-7048	—	1-14	1.530	1.616	.810	1.524	1	1.606	1

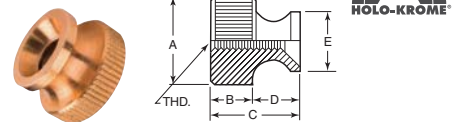
Note: The counterbore hole size value is the minimum required when the allenut is to be pressed or drawn into non-hardened materials for anchoring purposes.

Knurled Head Nuts Stainless Steel



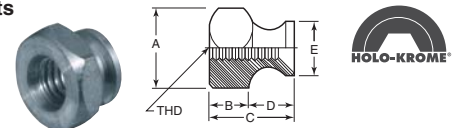
Item No.	A	B	C	D	E	F	G	Pack Qty.
SKN-5	3/8	1/2	1/4	1/2	1/8 inch	1/8	4-40	1
SKN-15	3/8	1/2	1/4	1/2	#26 (.147 inch)	3/32	6-32	1
SKN-25	3/8	1/2	1/4	3/4	#26 (.147 inch)	11/32	6-32	1
SKN-30	3/8	1/2	5/16	1/2	#15 (.180 inch)	1/4	8-32	1
SKN-35	3/8	1/2	5/16	3/4	#15 (.180)	1/4	8-32	1
SKN-40	3/8	1/2	5/16	3/4	#15 (.180 inch)	1/4	8-32	1
SKN-45	7/16	3/4	3/8	1/2	13/64 inch	1/4	10-24	1
SKN-50	7/16	3/4	3/8	1	13/64 inch	1/4	10-24	1
SKN-55	7/16	3/4	3/8	1/2	13/64 inch	1/4	10-32	1
SKN-60	7/16	3/4	3/8	1	13/64 inch	1/4	10-32	1
SKN-65	1/2	1/4	1/2	3/4	17/64 inch	1/4	1/4-20	1
SKN-70	1/2	1/4	1/2	1	17/64 inch	1/4	1/4-20	1
SKN-75	3/4	1/4	1/2	1	17/64 inch	1/2	1/4-20	1
SKN-80	1	1/4	1/2	1	17/64 inch	1/2	1/4-20	1

Knurled Thumb Nuts Brass and Stainless Steel



Brass Item No.	Stainless Item No.	Thread	A	B	C	D	E	Pack Qty.
—	AJ-743	2-56	1/4	1/8	1/4	1/8	3/16	1
—	AJ-746	4-40	5/16	1/8	1/4	1/8	1/4	1
AJ-709	AJ-749	6-32	3/8	1/8	9/32	5/32	11/32	1
AJ-712	AJ-752	8-32	7/16	1/8	9/32	5/32	3/8	1
AJ-715	AJ-755	10-24	1/2	1/8	11/32	3/16	19/32	1
AJ-718	AJ-758	10-32	1/2	1/8	11/32	3/16	19/32	1
AJ-721	AJ-761	1/4-20	9/16	1/8	5/8	7/32	19/32	1
AJ-724	AJ-764	5/16-18	5/8	3/16	13/32	7/32	17/32	1
AJ-727	AJ-767	3/8-16	3/4	7/32	15/32	1/4	5/8	1

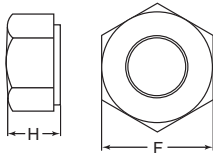
Hex Thumb Nuts Stainless Steel



Item No.	Thread	A	B	C	D	E	Pack Qty.
AJ-670	2-56	1/4	1/8	1/4	1/8	3/16	1
AJ-672	4-40	5/16	1/8	1/4	1/8	1/4	1
AJ-674	6-32	3/8	1/8	9/32	5/32	11/32	1
AJ-676	8-32	7/16	1/8	9/32	5/32	3/8	1
AJ-678	10-24	1/2	9/32	11/32	3/16	19/32	1
AJ-680	10-32	1/2	9/32	11/32	3/16	19/32	1
AJ-682	1/4-20	9/16	9/32	5/8	7/32	19/32	1
AJ-684	5/16-18	5/8	3/16	13/32	7/32	17/32	1
AJ-686	3/8-16	3/4	7/32	15/32	1/4	5/8	1



**NHS/HN Series
 Standard Hex Nuts**



Specifications:

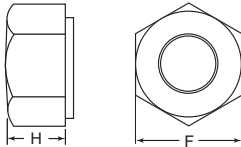
- Material: Nylon 6/6
- Color: Natural

Features:

- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	F in	F mm	H in	H mm	Pack Qty.
NHS095	#2-56	0.180	4.572	0.070	1.778	1,000
HN-4-40-01	#4-40	0.245	6.223	0.093	2.362	1,000
HN-6-32-01	#6-32	0.305	7.747	0.110	2.794	1,000
HN-8-32-01	#8-32	0.338	8.585	0.125	3.175	1,000
NHS140A	#10-24	0.375	9.525	0.146	3.708	1,000
NHS150A	#10-32	0.375	9.525	0.146	3.708	1,000
NHS160A	1/4-20	0.438	11.125	0.207	5.258	1,000
NHS170A	1/4-28	0.438	11.125	0.207	5.258	1,000
NHS180A	5/16-18	0.500	12.700	0.302	7.671	1,000
NHS190A	5/16-24	0.500	12.700	0.302	7.671	1,000
NHS200A	3/8-16	0.563	14.300	0.330	8.382	1,000
NHS210A	7/16-14	0.750	19.050	0.380	9.652	500
NHS220A	1/2-13	0.750	19.050	0.443	11.252	500
NHS230A	5/8-11	1.000	25.400	0.546	13.868	500
NHS240A	3/4-10	1.125	28.575	0.635	16.129	500
NHS250A	3/4-16	1.125	28.575	0.635	16.129	500

**NHSM/HN-M Series
 Standard Metric Hex Nuts**



Specifications:

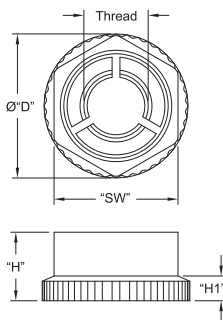
- Material: Nylon 6/6
- Color: Natural

Features:

- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Material	Thread	F in	F mm	H in	H mm	Pack Qty.
NHSM2A	NYLON 6/6	M2	0.154	3.900	0.047	1.200	1,000
NHSM2.5A	NYLON 6/6	M2.5	0.193	4.900	0.071	1.800	1,000
NHSM3A	NYLON 6/6	M3	0.213	5.400	0.087	2.200	1,000
HN-M3-79	POLYCARBONATE	M3	0.217	5.500	0.098	2.500	1,000
NHSM3.5A	NYLON 6/6	M3.5	0.272	6.900	0.106	2.700	1,000
NHSM4A	NYLON 6/6	M4	0.272	6.900	0.118	3.000	1,000
HN-M4-79	POLYCARBONATE	M4	0.315	8.000	0.130	3.300	1,000
NHSM5A	NYLON 6/6	M5	0.311	7.900	0.169	4.300	1,000
NHSM6A	NYLON 6/6	M6	0.394	10.000	0.213	5.400	1,000
NHSM8A	NYLON 6/6	M8	0.508	12.900	0.252	6.400	1,000
NHSM10A	NYLON 6/6	M10	0.583	14.800	0.386	9.800	1,000
NHSM12A	NYLON 6/6	M12	0.698	17.740	0.415	10.540	1,000

**KNF
 Metric Quick Nut**



Specifications:

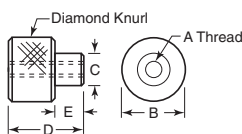
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- To install, push down the length of the threaded fastener to desired location and lock with a 180° turn
- Reduces assembly time
- Corrosion resistant
- Lightweight
- To remove, unscrew with a wrench

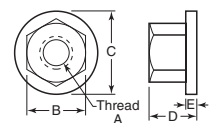
Item No.	Thread	"SW" mm	"D" mm	"H" mm	"H1" mm	Pack Qty.
KNF-30	M3	7	8.2	4	1.8	1,000
KNF-40	M4	8	9.4	4.7	1.8	1,000

**Nylon Knurled Finger Nuts
 Nylatron GS**

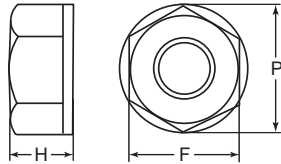


Item No.	A	B	C	D	E	Pack Qty.
NC-60	6-32	1/2	1/4	3/8	1/4	1
NC-70	8-32	1/2	5/16	3/8	1/4	1
NC-80	10-24	1/2	3/8	7/16	1/4	1
NC-85	10-32	1	3/8	7/16	1/4	1
NC-90	1/4-20	3/4	1/2	1/2	1/4	1
NC-95	1/4-20	1	1/2	1	3/4	1

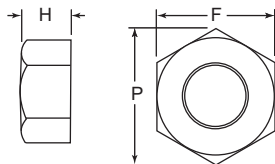
**Nylon Collar Nuts
 Nylatron GS**



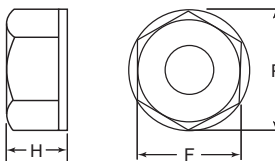
Item No.	A	B	C	D	E	Pack Qty.
NC-10	1/4-20	1/2	5/8	3/16	3/32	1
NC-20	3/8-16	11/16	7/8	1/2	1/8	1
NC-30	1/2-13	7/8	1 1/8	1 1/16	3/32	1

**NLH Series
Locking Hex Nuts**

Item No.	Thread	F In	P In	H In	Pack Qty.
NLH100A	4-40	1/4	0.293	0.188	1,000
NLH110A	6-32	5/16	0.360	2.000	1,000
NLH120A	8-32	11/32	0.398	0.216	1,000
NLH130A	10-32	3/8	0.424	0.225	1,000
NLH140A	10-24	3/8	0.424	0.225	1,000
NLH150A	1/4-20	7/16	0.500	0.268	1,000
NLH160A	1/4-20	7/16	0.500	0.328	1,000
NLH170A	5/16-18	9/16	0.652	0.337	1,000

**NJS Series
Standard Jam Nuts**

Item No.	Thread	F In	P In	H In	Pack Qty.
NJS100A	3/8-16	9/16	0.636	0.223	1,000
NJS110A	3/8-24	9/16	0.636	0.223	1,000
NJS120A	1/2-13	13/16	0.941	0.230	500
NJS130A	5/8-11	1	1.129	0.286	500
NJS140A	5/8-18	1	1.129	0.286	500

**STLN Series
Self-Threading Lock Nuts**

Item No.	For use with Screw size	F In	P In	H In	Pack Qty.
STLN050A	2-56	0.180	0.205	0.140	1,000
STLN100A	4-40	0.250	0.285	0.200	1,000
STLN150A	6-32	0.305	0.350	0.200	1,000
STLN200A	8-32	0.335	0.385	0.230	1,000
STLN250A	10-24	0.365	0.425	0.250	1,000
STLN300A	10-32	0.365	0.425	0.250	1,000
STLN350A	1/4-20	0.425	0.510	0.275	1,000

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon locking hex nuts are ideal for applications seeing vibration or movement
- Locking hex nuts are designed to run tight against the thread, preventing it from backing off
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	F In	P In	H In	Pack Qty.
NLH180A	5/16-24	9/16	0.652	0.337	1,000
NLH190A	3/8-16	5/8	0.723	0.425	1,000
NLH200A	3/8-24	5/8	0.723	0.425	1,000
NLH210A	7/16-14	3/4	0.863	0.480	500
NLH220A	1/2-13	13/16	0.918	0.535	500
NLH230A	1/2-20	13/16	0.918	0.535	500
NLH240A	5/8-11	15/16	1.050	0.570	500

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Used with bolts and screws to mechanically fasten or join materials together
- Threaded nylon jam nuts are ideal for applications that encounter vibration or movement
- Jam nut can be threaded onto a bolt and run tight against the standard nut which will lock the nut in place and prevent it from backing off
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	F In	P In	H In	Pack Qty.
NJS150A	3/4-16	1-1/16	1.202	0.333	250
NJS160A	3/4-16	1-1/4	1.405	0.362	250
NJS170A	7/8-14	1-1/4	1.405	0.362	100
NJS180A	7/8-14	1-1/2	1.712	0.408	100
NJS190A	1-8	1-1/4	1.444	0.343	100

Specifications:

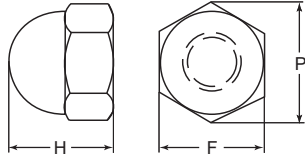
- Material: Nylon
- Color: Natural

Features:

- Designed for use with steel bolts
- Self-threading to ensure a snug fit
- Ideal for applications seeing vibration or movement
- Resistant to corrosion, oil, abrasion and most chemicals



**NLC Series
 Locking Cap Nuts**



Item No.	Thread	F In	P In	H In	Pack Qty.
NLC100A	4-40	1/4	0.290	0.269	1,000
NLC110A	6-32	5/16	0.370	0.309	1,000
NLC120A	8-32	11/32	0.397	0.359	1,000
NLC130A	10-24	3/8	0.428	0.390	1,000
NLC140A	10-32	3/8	0.428	0.390	1,000
NLC150A	10-32	5/16	0.428	0.332	1,000
NLC160A	1/4-20	0.438	0.505	0.467	1,000

Specifications:

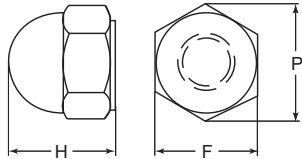
- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon locking cap nuts are ideal for applications that require the nut to resist movement under vibration or torque
- A cap nut is a blind hex nut with an acorn-shaped top
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	F In	P In	H In	Pack Qty.
NLC170A	5/16-18	7/16	0.658	0.533	1,000
NLC180A	5/16-24	7/16	0.658	0.533	1,000
NLC190A	3/8-16	5/8	0.712	0.593	1,000
NLC200A	3/8-24	5/8	0.712	0.593	1,000
NLC220A	1/2-13	13/16	0.920	0.977	500
NLC230A	1/2-20	15/16	0.920	0.977	500
NLC240A	5/8-11	13/16	1.050	1.120	500

**NCS Series
 Cap Nuts**



Specifications:

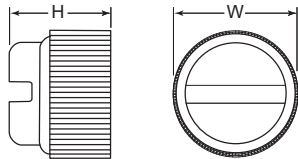
- Material: Nylon 6/6
- Color: Natural

Features:

- Ideal for outdoor environments
- A cap nut is a blind hex nut with an acorn-shaped top
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	F In	P In	H In	Pack Qty.
NCS100A	1/4-20	7/16	0.490	0.467	1,000
NCS110A	3/8-16	9/16	0.641	0.604	1,000

**NST Series
 Slotted Thumb Nuts**



Specifications:

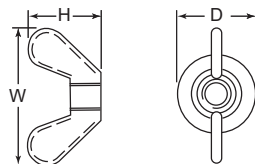
- Material: Nylon 6/6
- Color: Natural

Features:

- Threaded nylon thumb screws are ideal for quick and easy assembly
- Slotted tip
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	P In	H In	Pack Qty.
NST100A	8-32	0.373	0.390	1,000

**NWS Series
 Wing Nuts**



Specifications:

- Material: Nylon 6/6
- Color: Natural

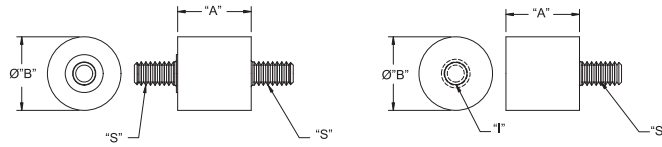
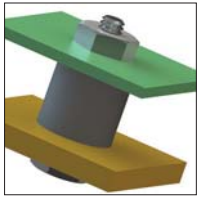
Features:

- Wing nuts can be mechanically fastened by hand; they require no tools for assembly
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	P In	H In	Pack Qty.
NWS100A	1/4-20	1.350	0.818	1,000
NWS110A	1/4-28	1.350	0.818	1,000
NWS120A	5/16-18	1.350	0.818	1,000



QM
Heavy Duty Vibration Mount



Specifications:

- Material: Center: Neoprene Rubber 40 Shore A, Color: Black Insert/Studs: 1010-1020 Steel

Features:

- Absorbs vibration, noise and shock
- For heavy duty applications



Item No.	"A"	"B"	Stud Thread "S"	Insert Thread "I"	Fig. No.	Ref. Load at 15% Deflection Lbs (Kg)	Pack Qty.
QM1	7/16 (11.1)	7/16 (11.1)	#6-32 x 1/4	—	1	8 (4)	100
QM1T	7/16 (11.1)	7/16 (11.1)	#6-32 x 1/4	#6-32 x 3/16	2	5 (2)	100
QM2T	7/16 (11.1)	7/16 (11.1)	#6-32 x 1/2	#6-32 x 3/16	2	7 (3)	100
QM3	1/2 (12.7)	7/16 (11.1)	#8-32 x 3/8	—	1	9 (4)	100
QM3T	1/2 (12.7)	7/16 (11.1)	#8-32 x 3/8	#8-32 x 3/16	2	8 (4)	100
QM4	1/2 (12.7)	9/16 (14.3)	#8-32 x 3/8	—	1	15 (7)	100
QM4T	1/2 (12.7)	9/16 (14.3)	#8-32 x 3/8	#8-32 x 3/16	2	28 (13)	100
QM5	3/4 (19.1)	1.0 (25.4)	#1/4-20 x 1/2	—	1	43 (20)	100
QM7	9/16 (14.3)	1/2 (12.7)	#10-32 x 3/8	—	1	3 (1)	100
QM7T	9/16 (14.3)	1/2 (12.7)	#10-32 x 3/8	#10-32 x 3/16	2	10 (5)	100

NOTE: Threaded metal insert may be blind clip, or through-nut.

VG
Vibration Grommet

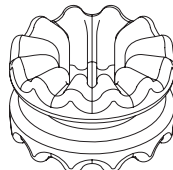
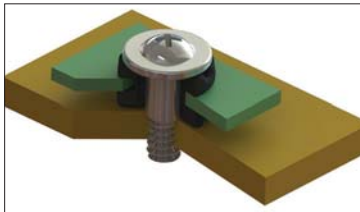


Fig. 1

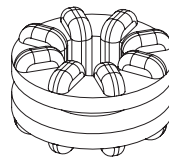
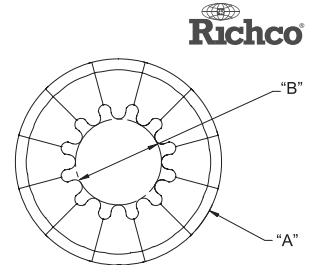


Fig. 2

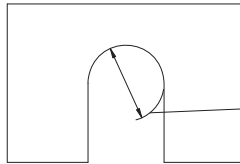


Specifications:

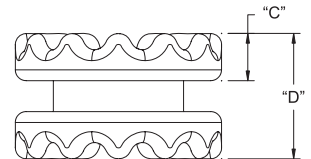
- Material: Neoprene Rubber, 60 Shore A
- Color: Black

Features:

- Provides vibration and noise control
- Shock protection
- VG grommet is mounted with VGS screw (sold separately see below)



See Grommet Table for Panel Hole Size



Item No.	"A"	"B"	Panel Thickness	Panel Hole Size	"C" Typ.	"D" Ref.	Fig.	Mating Screws	Pack Qty.
VG-1	.380 (9.7)	.158 (4)	.057 (1.45)	.250 (6.35)	.087 (2.2)	.231 (5.9)	1	VGS-1 or VGS-4	1,000
VG-2	.565 (14.4)	.188 (4.8)	.063 (1.60)	.375 (9.53)	.131 (3.3)	.324 (8.2)	1	VGS-2 or VGS-5	1,000
VG-3	.380 (9.7)	.158 (4)	.031 (0.79)	.250 (6.35)	.100 (2.5)	.231 (5.9)	1	VGS-1 or VGS-4	1,000
VG-4	.565 (14.4)	.188 (4.8)	.043 (1.09)	.375 (9.53)	.141 (3.6)	.324 (8.2)	1	VGS-2 or VGS-5	1,000
VG-5	.374 (9.5)	.142 (3.6)	.055 (1.4)	.217 (5.5)	.083 (2.1)	.217 (5.5)	2	VGS-3 or VGS-6	1,000

VGS
Vibration Grommet Screw

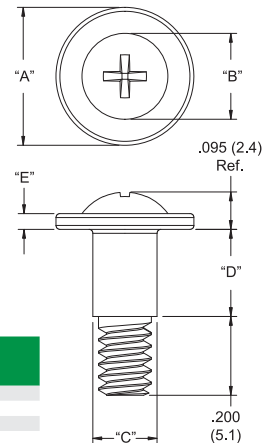


Specifications:

- Material: 1022 Carbon Steel, Finish: Zinc Plate

Features:

- Mounts the VG grommet seen above

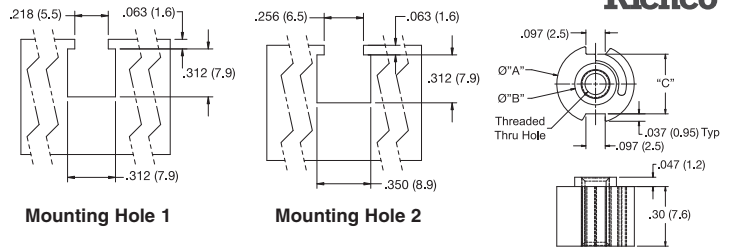
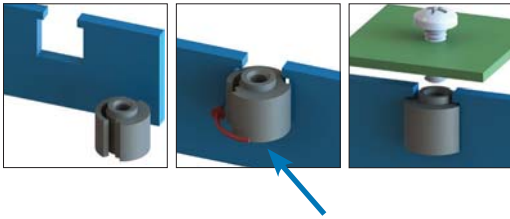


Item No.	Thread	Use With Grommet Item No.	"A"	"B" Ref.	"C"	"D"	"E"	Pack Qty.
VGS-1	#6-32 UNC-2A	VG-1, VG-3	.350 (8.9)	.218 (5.5)	.163 (4.1)	.205 (5.2)	.050 (1.3)	1,000
VGS-2	#6-32 UNC-2A	VG-2, VG-4	.500 (12.7)	.320 (8.1)	.194 (4.9)	.290 (7.4)	.040 (1)	1,000
VGS-3	#6-32 UNC-2A	VG-5	.350 (8.9)	.218 (5.5)	.146 (3.7)	.195 (5)	.050 (1.3)	1,000
VGS-4	M3 x 0.5	VG-1, VG-3	.350 (8.9)	.218 (5.5)	.163 (4.1)	.205 (5.2)	.050 (1.3)	1,000
VGS-5	M3 x 0.5	VG-2, VG-4	.500 (12.7)	.320 (8.1)	.194 (4.9)	.290 (7.4)	.040 (1)	1,000
VGS-6	M3 x 0.5	VG-5	.350 (8.9)	.218 (5.5)	.146 (3.7)	.195 (5)	.050 (1.3)	1,000



SHEET EDGE INSERT, SHELF ACCESSORIES & SUCTION CUPS

SEI Sheet Edge Insert



Installation:

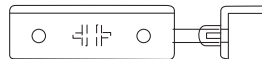
1. Install insert notch into the side of the panel opening
2. Rotate spring leg of insert toward the panel. This compresses the spring leg allowing it to pass through the notch in the panel
3. Leg will snap back to its normal position securing insert in panel

- Provides strong threads in metal sheets too thin to be tapped
- Fastens to the edges of thin sheets
- Alternative to self-clinching inserts
- Can be removed by pinching the spring legs and rotating
- Internal thread requires a screwdriver for installation
- Material: UL94 V-2 Nylon 6/6, RMS-01
- Color: Black

Item No.	Thread Type	"A" Ø	"B" Ø	"C"	Panel Thickness	Mounting Hole	Pack Qty.
SEI-1	#6-32 UNC	.39 (9.9)	.21 (5.3)	.30 (7.6)	.050 - .095 (1.27-2.41)	1	1,000
SEI-2	M4	.39 (9.9)	.21 (5.3)	.30 (7.6)	.050 - .091 (1.27-2.3)	1	1,000
SEI-3	M3	.39 (9.9)	.21 (5.3)	.30 (7.6)	.050 - .091 (1.27-2.3)	1	1,000
SEI-4	M5	.43 (10.9)	.25 (6.3)	.34 (8.6)	.050 - .095 (1.27-2.41)	2	1,000
SEI-5	M6	.43 (10.9)	.25 (6.3)	.34 (8.6)	.050 - .095 (1.27-2.41)	2	1,000

NOTE: Screwdriver required for installation

GSS Series Glass Shelf Supports



Specifications:

- Material: Butyrate
- Color: Clear

Features:

- Clamps easily to metal brackets
- Clear butyrate is glass-like in appearance as well as stress and impact resistant

Item No.	Bracket Thickness In	Style	Pack Qty.
GSS1000A	0.093	Center Back Clip	5,000
GSS1100A	0.093	Center Front Clip	3,500

RCL Series Retainer Clips



Specifications:

- Material: Natural Nylon or Clear Butyrate

Features:

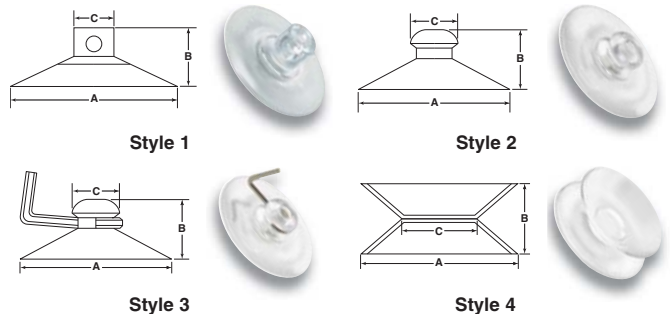
- Used for retaining panels or screens to an opening in a door
- Attractive and economical method of securing a mirror to a wall or as a means of mounting a picture into a frame

Item No.	Panel Thickness In	Material	Pack Qty.
RCL1000A	0.156	Nylon	21,000
RCL1000B	0.156	Butyrate	16,500

SUC Series Suction Cups



- Specifications:
- Material: PVC
 - Color: Clear



Features:

- **Style 1** is designed with a side pilot hole to be used with string hanger, wire dowels or various other fasteners
- **Style 2** with the mushroom head design can be used with a wide range of self hanging products
- **Style 3** with the hook design is perfect for window mounted signs, ornaments and decorations
- **Style 4** or the double suction cup securely holds, separates, and cushions parallel glass or related surfaces

Item No.	Style	A		B		C		Hole Dia.		Pack Qty.
		In	mm	In	mm	In	mm	In	mm	
SUC100A	1	0.866	22.00	0.331	8.40	0.244	6.20	0.110	2.8	3000
SUC105A	1	0.984	25.00	0.394	10.00	0.311	7.90	0.157	4.0	2000
SUC110A	1	1.181	30.00	0.551	14.00	0.374	9.50	0.185	4.7	1500
SUC115A	1	1.378	35.00	0.492	12.50	0.354	9.00	0.185	4.7	1000
SUC120A	1	1.575	40.00	0.630	16.00	0.354	9.00	0.197	5.0	800
SUC125A	1	1.772	45.00	0.748	19.00	0.492	12.50	0.197	5.0	500
SUC130A	1	1.969	50.00	0.661	16.80	0.394	10.00	0.213	5.4	350
SUC135A	1	2.165	55.00	0.787	20.00	0.551	14.00	0.256	6.5	250
SUC140A	1	2.480	63.00	0.787	20.00	0.591	15.00	0.256	6.5	230
SUC200A	2	0.748	19.00	0.394	10.00	0.327	8.30	—	—	3000
SUC205A	2	0.866	22.00	0.325	8.25	0.315	8.00	—	—	3500
SUC210A	2	1.181	30.00	0.449	11.40	0.449	11.40	—	—	1500
SUC215A	2	1.378	35.00	0.492	12.50	0.541	13.75	—	—	1000
SUC220A	2	1.575	40.00	0.598	15.20	0.531	13.50	—	—	800

Item No.	Style	A		B		C		Hole Dia.		Pack Qty.
		In	mm	In	mm	In	mm	In	mm	
SUC225A	2	1.772	45.00	0.561	14.25	0.587	14.90	—	—	500
SUC230A	2	1.969	50.00	0.433	11.00	0.610	15.50	—	—	350
SUC235A	2	2.165	55.00	0.787	20.00	0.626	15.90	—	—	250
SUC240A	2	2.480	63.00	0.917	23.30	0.709	18.00	—	—	230
SUC300A	3	0.866	22.00	0.295	7.50	0.287	7.30	—	—	2000
SUC305A	3	1.181	30.00	0.449	11.40	0.449	11.40	—	—	1000
SUC310A	3	1.378	35.00	0.492	12.50	0.541	13.75	—	—	700
SUC315A	3	1.575	40.00	0.551	14.00	0.531	13.50	—	—	500
SUC320A	3	1.654	42.00	0.598	15.20	0.453	11.50	—	—	500
SUC325A	3	1.772	45.00	0.561	14.25	0.587	14.90	—	—	400
SUC330A	3	1.969	50.00	0.689	17.50	0.610	15.50	—	—	300
SUC335A	3	2.165	55.00	0.787	20.00	0.626	15.90	—	—	250
SUC400A	4	0.787	20.00	0.374	9.50	0.374	9.50	—	—	2000
SUC405A	4	1.181	30.00	0.591	15.00	0.512	13.00	—	—	1000