

PRODUCT CATALOG

#24

CATALOG
ADDENDUM



Manufacturers of the Finest
Plastic Fasteners
in the World



Bushings

See page 11 of Catalog 24

Pins

See pages 53-54 of Catalog 24 for additional products



Cable Routing & Wire Handling Hardware

See pages 12-20 of Catalog 24

Rivets & Push-in Fasteners

New productspage 12
See pages 55-57 of Catalog 24 for additional products

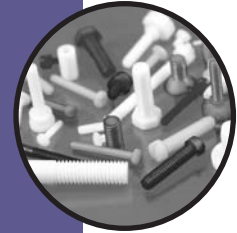


Caps / Plugs

New productspage 6
See pages 21-22 of Catalog 24 for additional products

Screws & Studs

New productspage 12-14
See pages 58-82 of Catalog 24 for additional products



Circuit Board Hardware

See pages 23-25 of Catalog 24

Spacers

New productspage 15
See pages 83-100 of Catalog 24 for additional products

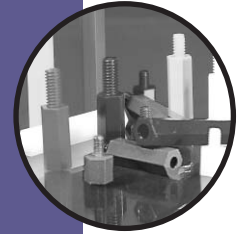


Clips

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Standoffs

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Metric PCB's, Screws & Nuts

New productspages 6-11
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Stem Bumpers

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Miscellaneous

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See pages 45-47 of Catalog 24 for additional products

Threaded Rod

See page 106 of Catalog 24

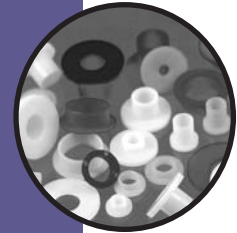


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Washers

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Terms and Conditions

Standard Terms: Net 30 days, 1.5% discount on payment received within 10 days. Shipping as requested by buyer. If unspecified, shipping will be at V.I.P. Inc.'s discretion. Buyer will be billed for shipping expense and any additional cost, including insurance and special handling. Prices are subject to change without notice.

Delivery Terms: Delivery will be indicated at time of purchase agreement. Delivery schedule begins upon receipt of purchase order. Delivery date is subject to change upon notification from V.I.P. Inc. Buyer bears responsibility for filing any claims for loss or damage in shipping. V.I.P. Inc. reserves the right to withhold any shipment in whole or part if the account is determined to be delinquent.

Returns/Cancellations: V.I.P. Inc. reserves the right to cancel any order if the item is unavailable or has been discontinued. V.I.P. Inc. reserves the right to inspect any goods determined by the buyer to be defective in either materials or workmanship. Cancellation of an accepted purchase order is subject to approval by V.I.P. Inc. with terms to protect V.I.P. Inc. from any financial loss. Returns require authorization from V.I.P. Inc. All claims against V.I.P. Inc. must be made within 15 days of shipping date. A 25% restocking fee will be effective after 15 days of shipment.

Warranty/Guarantee Disclaimer

Volt Industrial Plastics Inc. products are sold with the understanding that the buyer assumes all responsibility and liability for the application and use of V.I.P. Inc. products. Volt Industrial Plastics Inc. warrants all of its products solely against defects in materials and workmanship. This warranty is limited to replacement of V.I.P. Inc. products shown to be defective in materials or workmanship. Under no circumstances will V.I.P. Inc. be liable for any damage, loss or expense arising from the use, misuse or inability to use any V.I.P. Inc. product. This warranty is in lieu of any other warranties whether expressed or implied, including but not limited to any warranty or guarantee of merchantability or fitness for use in any application.

Aeronautics: The materials provided by Volt Industrial Plastics, Inc. are not engineered, built, tested, insured, or intended for use in products, vehicles, or equipment used in the aeronautics industry, including but not limited to air and space crafts and equipment. V.I.P. Inc. is not responsible for purchasers and subsequent parties' use of materials. In consideration of V.I.P. Inc. providing the requested materials, purchasers agree to release and hold harmless V.I.P. Inc. from any and all claims, including but not limited to property damage and personal injury, related to the use of V.I.P. Inc. materials in products, vehicles, or equipment used in the aeronautics industry.

Shipping

V.I.P. will drop ship upon customer request. V.I.P. ships via FedEx or UPS. FedEx Express 2-Day services provides committed delivery in two business days. Any form of UPS delivery can be used.



*Our Web site is updated often, visit us at
www.voltplastics.com*

Chat Live Online!

This "Live Help" feature allows the customer to chat live with a Volt Customer Service Representative to get questions answered instantly.

Return Policy

Your satisfaction is our top priority. We want you to be completely satisfied with your purchases. If for any reason you are not completely satisfied with your purchase, we will be happy to exchange the item for you or credit your account.

Returns require a Return Material Authorization (RMA) number from V.I.P. Inc. All claims against V.I.P. Inc. must be made within 15 days of shipping date.

A 25% restocking fee will be effective after 15 days of shipment. The customer must sign the RMA form faxed to them and return it to V.I.P. noting their debit memo number (if one exists) and their debit amount.

In order to receive full credit, returned parts must be received at V.I.P. within 14-21 days depending on customer's location, must be properly sealed in a bag inside a box, and the RMA number must be noted on the box. All returns are subject to inspection upon receipt. V.I.P. reserves the right not to issue a credit against returned parts.

All credits will be applied to customer's account. No checks will be cut for any reason.



Materials

When you have a reliable source for precision non-metallic fasteners, you can use them to reduce the weight, cost, and assembling complexities of your products.

The light weight, non-magnetic, non-corrosive, non-toxic, non-flammable, non-abrasive, non-conducting, heat resistant properties of versatile polymers make them invaluable for applications where high tensile holding strength is not the primary requirement.

And, when you consider that these characteristics may be further enhanced by chemical and fiber additions to increase strength, hardness, flexibility, or temperature and UV resistance, you can begin to understand why plastics are so attractive.

The skilled craftsmen at Volt Industrial Plastics not only efficiently produce new fastener shapes to customer print, they also produce them in a wide range of materials to achieve specific ductility or hardness. Today they are working with unique materials that add an entirely new dimension to plastic components and challenge the most creative design engineers. These are plastics that glow, can be richly colored and are soft to the touch or give off attractive scents.

Volt Industrial Plastics has the capability of molding over 120 different materials and is able to color match for specific applications. Over 100 colors are stocked in house. Following are descriptions of some of the materials in use at V.I.P. Please do not hesitate to call for more information on these or any other materials. Call for free samples.

ABS

A polymer consisting of Acrylonitrile, Butadiene and Styrene which can be combined in different ratios to produce a blend tailored to the customer's specific needs. Acrylonitrile contributes heat stability, chemical and aging resistance. Butadiene contributes low temperature retention, toughness and impact strength. Styrene contributes a glossy finish, rigidity and processing ease. Together, they provide flame retardance, electroplatability and variable gloss finish capability.

Acetal

Acetal resins are odorless, tasteless and nontoxic. Key properties include high strength and rigidity, excellent dimensional stability, fatigue endurance, relatively low moisture absorption and low dynamic and static coefficient of friction. Perhaps the most outstanding feature is Acetal's ability to retain these properties over a wide range of adverse conditions including extreme humidity, exposure to solvents and other chemicals and high loading and prolonged cyclic stressing. Acetal is widely used in the automotive, electrical, machinery, equipment and watch making industries.

Aromatic Thermoplastics

A specialty compound that makes your product more attractive, pleasant, or even more fun. One that helps you highlight desirable product characteristics and build brand recognition by appealing to a customer's sense of smell. Scented Compounds, which incorporate one of hundreds of standard or custom fragrances, emit a pleasant scent. While these fragrances are compatible with most reinforcements and colors, they work best in olefinic resins such as polypropylenes, polyethylenes, and olefinic thermoplastic elastomers. They can be injection molded, extruded or blow molded. Fragrances may be retained for up to a year. Generally, the thicker the part, the longer the fragrance will last. Applications for Scented Compounds include toys, household products, personal care products, medical supplies, cosmetics, automotive interior items, consumer goods, non-FDA parts and air freshening. Scented Compounds can also be helpful in offsetting undesirable odors in some applications.

Biodegradable

Biodegradable material now available. Call customer service at 1-800-844-8024 for details.

Customized Phosphorescent Thermoplastics (Glow-in-the-Dark)

A family of compounds with intriguing, glow-in-the-dark effects. Options in glow duration, intensity and color. Phosphorescent pigments absorb ultraviolet light and slowly emit this energy over time. This effect is best achieved with clear or translucent resin systems such as: elastomers, acrylics, polycarbonates, styrenics and polyolefins. New classes of pigments allow for longer glow life. The most effective way to recharge these compounds is to expose them to direct ultraviolet rays. These compounds are perfect for a variety of applications including: electronics, consumer goods, athletic and sporting goods, and safety equipment and signage. These compounds are an effective alternate light source to eliminate expensive wiring and lighting systems in applications such as signs, railings, armrests, or automotive instrument panels.

TPE Thermoplastic Elastomer Compounds (Rubber-like Material)

Thermoplastic Elastomer Compounds (TPE) are easily processed in a wide range of parameters for injection molding applications. Features of this material are soft touch, rubbery feel, excellent color ability and good ozone/UV stability. Thermoplastic Elastomer Compounds (TPE) has excellent grip characteristics and is extremely weatherproof. Examples of applications are medical and package tubing, closures and seals, household products, infant and personal care products and PVC replacement.

(continued)



Kostrate

This new thermoplastic material, which serves as a cost effective alternative to polycarbonate, exhibits exceptional toughness, rigidity and clarity. Kostrate is a significant cost-saving alternative for clear applications where rubber modified polystyrene, polycarbonate and copolymer polyester may have been used. Compared to other clear and engineered materials, Kostrate offers the following: high impact, high flexural and tensile strength.

Nylon

Nylon resins are typically used in applications requiring heat and chemical resistance, as well as, toughness. Some examples include under-the-hood automotive components, electrical connectors for the telecommunications and computer industries and components of medical devices. Nylon products can be found in virtually every industry. Parts in a broad range of colors can be produced with most nylon resins.

Polybutylene

A thermoplastic polymer, such as butyl rubber, of a butylene liquefied petroleum gas, isobutene, butene-1, butene-2 that is manufactured in various degrees of elasticity, strength and stability. Used for films, coatings, pipes, tubing, fittings and many other services.

Polycarbonate

Polycarbonate resin is one of the toughest, most versatile engineering thermoplastics, combining outstanding electrical insulation properties, performance history and economic advantages over other thermoplastics, metals, glass and other materials. Available with a variety of additive options which enhance UV stabilization, flame and heat resistance, impact strength, dimensional stability and optical quality: Polycarbonate resin is widely used in the appliance, automotive, packaging, electrical and electronic industries.

Polyethylene

Polyethylene is a partially crystalline, lightweight thermoplastic, polymerized from ethylene gas at controlled temperatures and pressures. It is tough, heat stable, flexible and has a wax-like feel. Polyethylene is used in many applications because of its moisture barrier properties, superior optics, salability, toughness and outstanding electrical properties.

Polypropylene

Polypropylene is a thermoplastic polymer with low specific gravity and good resistance to chemicals and fatigue. It can be readily colored, has good tensile strength and proven resistance to acids, alkalis and solvents. It also has low permeability to water, is unaffected by bacteria or fungus and has good electrical resistance. Chemical and fiber additions produce improved impact and UV resistance, increased flexibility and anti-static control, strength, excellent end product durability and performance.

Polystyrene

Polystyrene (or Styrene) advanced performance resins are crystal-clear, resist moisture, stable when exposed to radiation, can be uniformly colored, have attractive light transmission capabilities, dimensional stability, high tensile and flexible.

Looking For Specifications?

Our Material Data Sheets are located on our Web site: www.voltplastics.com

If you don't have access to the Internet please call us!



Certification of Composition

Neither our Nylon 6/6 parts nor our packing materials contain any unconditionally banned substances, or conditionally banned substances.

This includes Cadmium (Cd) and its compounds, Lead (Pb) and its compounds, Hexavalent Chromium (Cr) compounds, Mercury (Hg) and its compounds, Polychlorinated Biphenyls (PCBs), Polybrominated Biphenyls (PBBs), or Polybrominated Diphenyl Ethers (PBDEs).

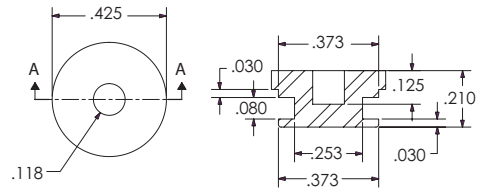
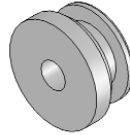
V.I.P.'s products do not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of CFR 372.

All of our Nylon 6/6 products and packing materials comply with Restriction on Hazardous Substances (RoHS) and Waste for Electrical and Electronic Equipment (WEEE) initiatives including:

- EU-Directive 2002/95, EU End-of-Life-Vehicle Directive 200/53/EC, and EU-Directive 2003/11/EC
- List of Declarable Materials in Automobile Manufacturing of VDA Norm 232-101
- German Hazardous Substances Ordinance of 15.11.99



Caps / Plugs



End Cap

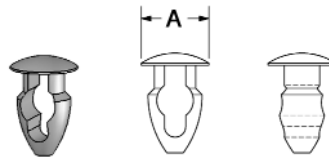
Item

CAE-2658-SP

See page 21 of Catalog 24 for additional End Caps

Clips

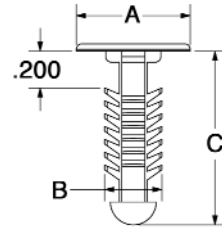
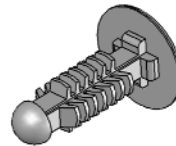
Key Hole Clip



Item	A	Hole Size	Panel Thickness
CLKH-2654	.313	.250	.156

See page 27 of Catalog 24 for additional Keyhole Clips.

.285-.305 HOLE DIA
.530-.905 PANEL THICKNESS



Christmas Tree Clip

Item	A	B	C
CLX-2621-SGE	.620	.312	1.257

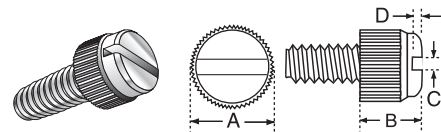
See pages 28-32 of Catalog 24 for additional Christmas Tree Clips.

Metric PCB's, Screws & Nuts

Metric Economy Slotted Thumb

Item	Description
SC-M04-007-06-ETS	M4 X 0.7 X 6MM

See page 34 of Catalog 24 for additional Metric Economy Slotted Thumb Screws.

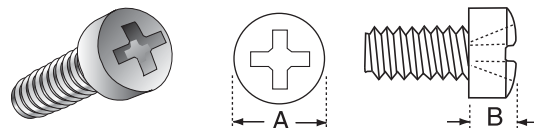


THREAD SIZE	A	B	C	D
M4 X 0.7	8.26	6.1	1.15	1.53
M5 X 0.8	8.9	6.86	1.27	1.79
M6 X 1.0	12.2	9.4	1.53	2.29



Metric PCB's, Screws & Nuts

Metric Phillips Fillister

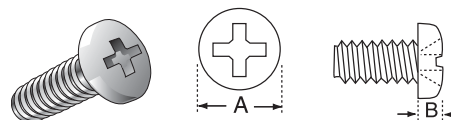


Item	Description
SC-M04-007-06-PHF	M4 X 0.7 X 6MM

THREAD SIZE	A	B
M4 X 0.7	6.61	3.43

See page 35 of Catalog 24 for additional Metric Phillips Fillister Screws.

Metric Phillips Pan

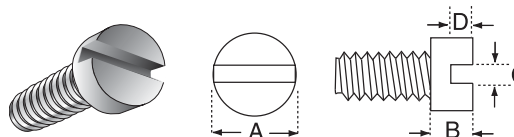


Item	Description
SC-M03-005-13-PHP	M3 X 0.5 X 13MM
SC-M04-007-06-PHP	M4 X 0.7 X 6MM

THREAD SIZE	A	B
M2 X 0.4	4.07	1.28
M3 X 0.5	5.46	1.91
M4 X 0.7	8.13	2.80
M5 X 0.8	9.27	3.18
M6 X 1.0	11.77	4.45

See page 35 of Catalog 24 for additional Metric Phillips Pan Screws.

Metric Slotted Cheese Head

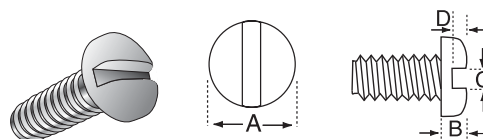


Item	Description
SC-M03-005-13-CSH	M3 X 0.5 X 13MM
SC-M35-006-05-CSH	M3.5 X 0.6 X 5MM
SC-M04-007-06-CSH	M4 X 0.7 X 6MM

THREAD SIZE	A	B	C	D
M2 X 0.4	3.8	1.3	0.70	0.90
M3 X 0.6	5.51	2.01	1.0	1.3
M3.5 X 0.6	6.0	2.4	1.1	1.4
M4 X 0.7	7.00	2.67	1.02	1.65
M6 X 1.0	9.78	3.81	1.40	2.03

See page 35 of Catalog 24 for additional Metric Slotted Cheese Head Screws.

Metric Slotted Pan

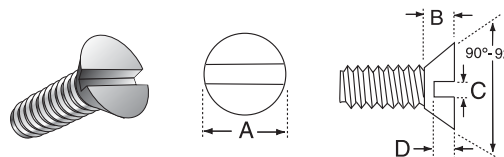


Item	Description
SC-M03-005-13-PAN	M3 X 0.5 X 13MM
SC-M04-007-06-PAN	M4 X 0.7 X 6MM

THREAD SIZE	A	B	C	D
M3 X 0.5	5.46	1.7	0.89	0.7
M4 X 0.7	8.01	2.29	1.30	1.33
M5 X 0.8	9.83	2.92	1.40	1.30
M6 X 1.0	11.74	3.46	1.76	1.48
M8 X 1.25	15.7	4.65	2.11	2.03
M10 X 1.50	15.5	5.72	2.16	2.92

See page 36 of Catalog 24 for additional Metric Slotted Pan Screws.

Metric Slotted Flat



Item	Description
SC-M06-100-20-F92	M6 X 1.0 X 20 MM
SC-M06-100-30-F92	M6 X 1.0 X 30 MM

THREAD SIZE	A	B	C	D
M5 X 0.8	10.08	2.70	1.40	1.20
M6 X 1.0	11.81	3.3	1.65	1.4

See page 36 of Catalog 24 for additional Metric Slotted Flat Screws.



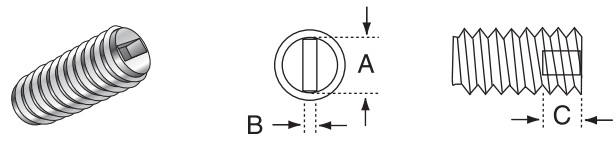
Metric PCB's, Screws & Nuts

Metric Slotted Set Grub

Item	Description
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SC-M04-007-06-SSG M4 X 0.7 X 6MM

See page 36 of Catalog 24 for additional Metric Slotted Set Grub Screws.



THREAD SIZE	A	B	C
M4 X 0.7	2.67	0.77	0.89
M5 X 0.8	3.3	0.89	1.15
M6 X 1.0	4.10	1.0	1.5
M8 X 1.25	5.21	1.6	2.24

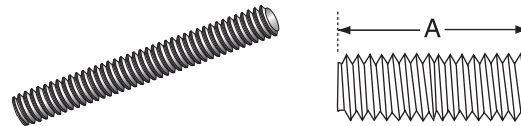
Metric Studs

Item	Description	A
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SC-M03-005-13-STUD M3 X 0.5 X 13MM 13MM

SC-M04-007-06-STUD M4 X 0.7 X 6MM 6MM

See page 37 of Catalog 24 for additional Metric Studs.



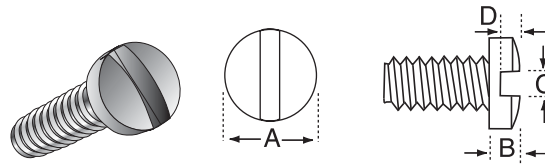
Metric Slotted Binding

Item	Description
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SC-M03-005-13-BIN M3 X 0.5 X 13MM

SC-M04-007-06-BIN M4 X 0.7 X 6MM

See page 37 of Catalog 24 for additional Metric Slotted Binding Screws.



THREAD SIZE	A	B	C	D
M3 X 0.5	5.84	1.65	0.89	0.89
M4 X 0.7	8.51	2.54	1.27	1.40
M5 X 0.8	9.66	3.05	1.40	1.78
M6 X 1.0	13.08	3.94	1.65	2.41

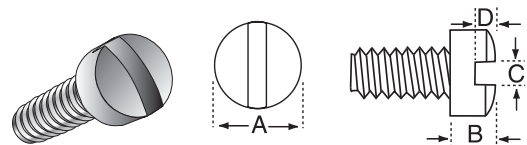
Metric Slotted Fillister

Item	Description
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SC-M03-005-13-FIL M3 X 0.5 X 13MM

SC-M04-007-06-FIL M4 X 0.7 X 6MM

See page 37 of Catalog 24 for additional Metric Slotted Fillister Screws.



THREAD SIZE	A	B	C	D
M3 X 0.5	4.57	2.54	0.64	1.02
M4 X 0.7	6.60	3.68	1.27	1.52
M5 X 0.8	7.63	4.19	1.14	1.78
M6 X 1.0	10.16	5.85	1.40	2.41

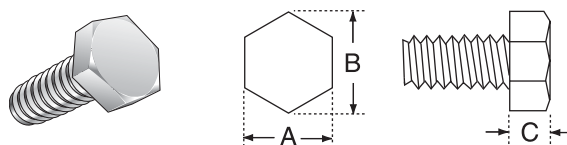
Metric Machine Hex

Item	Description
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SC-M03-005-13-MH M3 X 0.5 X 13MM

SC-M04-007-06-MH M4 X 0.7 X 6MM

See page 38 of Catalog 24 for additional Metric Machine Hex Screws.



THREAD SIZE	A	REF. B	C
M3 X 0.5	4.70	5.33	1.40
M4 X 0.7	6.35	7.11	2.54
M5 X 0.8	7.87	8.64	2.80
M6 X 1.0	9.40	10.39	4.70

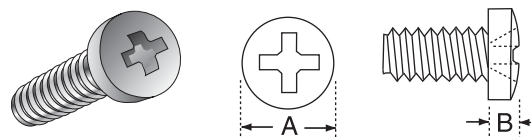


Metric PCB's, Screws & Nuts

Metric Phillips Binding

Item	Description
SC-M03-005-13-PHB	M3 X 0.5 X 13MM
SC-M04-007-06-PHB	M4 X 0.7 X 6MM

See page 38 of Catalog 24 for additional Metric Phillips Binding Screws.

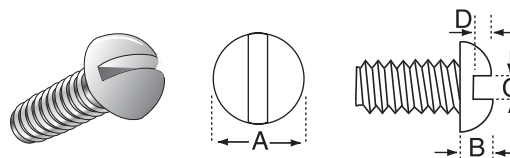


THREAD SIZE	A	B
M3 X 0.5	5.82	1.65
M4 X 0.7	8.51	2.54
M5 X 0.8	9.88	2.97
M6 X 1.0	12.99	4.01

Metric Slotted Round

Item	Description
SC-M03-005-13-RND	M3 X 0.5 X 13MM
SC-M04-007-06-RND	M4 X 0.7 X 6MM

See page 38 of Catalog 24 for additional Metric Slotted Round Screws.

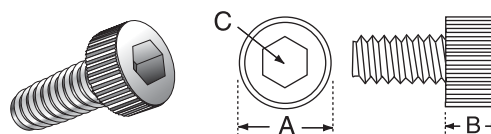


THREAD SIZE	A	B	C	D
M3 X 0.5	5.21	2.03	0.89	1.27
M4 X 0.7	7.37	2.79	1.27	1.65
M5 X 0.8	8.64	3.30	1.40	1.91
M6 X 1.0	11.44	4.07	1.78	2.29

Metric Socket Head Cap

Item	Smooth	Fine	Coarse	Description
SC-M03-005-13-SHC	X	X	X	M3 X 0.5 X 13MM
SC-M04-007-06-SHC	X	X	X	M4 X 0.7 X 6MM

See page 39 of Catalog 24 for additional Metric Socket Head Cap Screws.

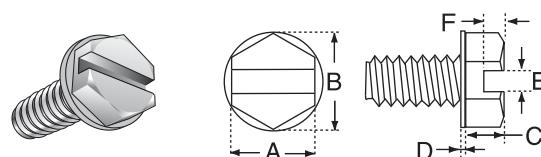


THREAD SIZE	A	B	C	HEX DEPTH
M3 X 0.5 SMOOTH/FINE/COARSE	4.57	2.80	2.39	1.30
M4 X 0.7 SMOOTH/FINE/COARSE	6.73	4.11	3.58	1.96
M5 X 0.8 SMOOTH/FINE/COARSE	7.93	4.83	3.96	2.29
M6 X 1.0 SMOOTH/FINE/COARSE	9.27	6.22	4.78	3.05

Metric Slotted Hex Washer

Item	Description
SC-M03-005-13-SHW	M3 X 0.5 X 13MM
SC-M04-007-06-SHW	M4 X 0.7 X 6MM

See page 39 of Catalog 24 for additional Metric Slotted Hex Washer Screws.

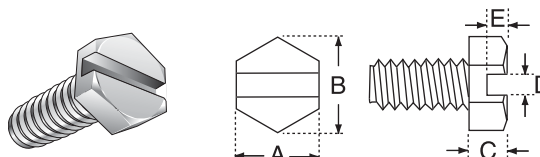


THREAD SIZE	A	REF. B	C	D	E	F
M3 X 0.5	4.75	5.97	1.52	0.38	0.89	0.89
M4 X 0.7	6.23	8.38	2.54	0.64	1.14	1.65
M5 X 0.8	7.82	8.64	2.84	0.89	1.40	1.73
M6 X 1.0	9.43	12.70	4.60	1.27	1.75	2.34

Metric Slotted Machine Hex

Item	Description
SC-M03-005-13-SMH	M3 X 0.5 X 13MM
SC-M04-007-06-SMH	M4 X 0.7 X 6MM

See page 40 of Catalog 24 for additional Metric Slotted Machine Hex Screws.

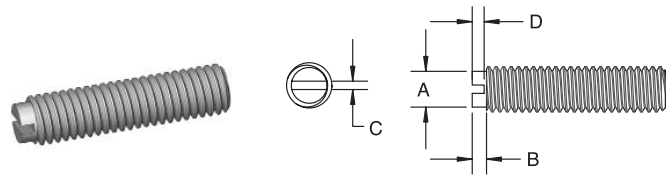


THREAD SIZE	A	REF. B	C	D	E
M3 X 0.5	4.70	5.13	1.40	0.89	0.89
M4 X 0.7	6.35	6.91	2.54	1.27	1.40
M5 X 0.8	7.87	8.64	2.80	1.40	1.65
M6 X 1.0	9.40	10.39	4.70	1.78	2.29



Metric PCB's, Screws & Nuts

Metric Slotted Set

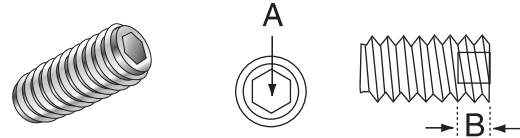


Item	Description
SC-M03-005-13-SLS	M3 X 0.5 X 13MM
SC-M04-007-06-SLS	M4 X 0.7 X 6MM

THREAD SIZE	A	B	C	D
M3 X 0.5	1.91	1.14	0.51	0.64
M4 X 0.7	3.05	1.40	0.71	0.89
M5 X 0.8	3.81	1.53	0.89	1.27
M6 X 1.0	4.45	2.03	1.02	1.53

See page 40 of Catalog 24 for additional Metric Slotted Set Screws.

Metric Socket Set

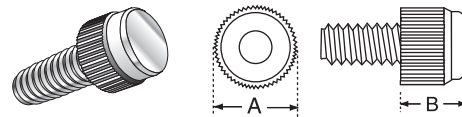


Item	Description
SC-M03-005-13-SS	M3 X 0.5 X 13MM
SC-M04-007-06-SS	M4 X 0.7 X 6MM

THREAD SIZE	A	B
M3 X 0.5	1.27	1.78
M4 X 0.7	1.99	2.29
M5 X 0.8	2.39	2.54
M6 X 1.0	3.18	3.18

See page 41 of Catalog 24 for additional Metric Socket Set Screws.

Metric Unslotted Economy Thumb

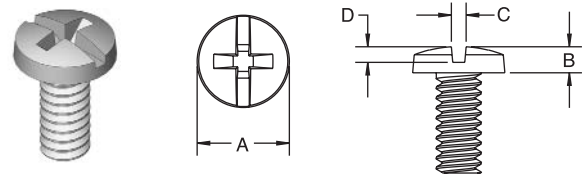


Item	Description
SC-M04-007-06-ETSU	M4 X 0.7 X 6MM

THREAD SIZE	A	B
M4 X 0.7	8.26	6.10
M5 X 0.8	8.90	6.60
M6 X 1.0	12.20	9.40

See page 41 of Catalog 24 for additional Metric Unslotted Economy Thumb Screws.

Metric Binding Combo Drive

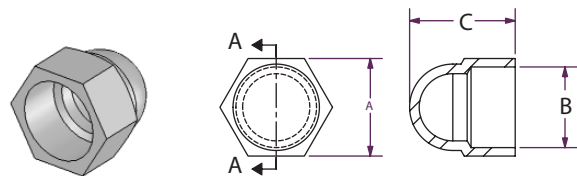


Item	Description
SC-M03-005-13-BNC	M3 X 0.5 X 13MM
SC-M04-007-06-BNC	M4 X 0.7 X 6MM

THREAD SIZE	A	B	C	D
M3 X 0.5	5.74	1.65	0.76	0.89
M4 X 0.7	8.38	2.54	1.02	1.42
M5 X 0.8	9.65	2.97	1.14	1.65
M6 X 1.0	12.57	3.81	1.40	2.03

See page 42 of Catalog 24 for additional Metric Binding Combo Drive Screws.

Metric Screw Nut Cover

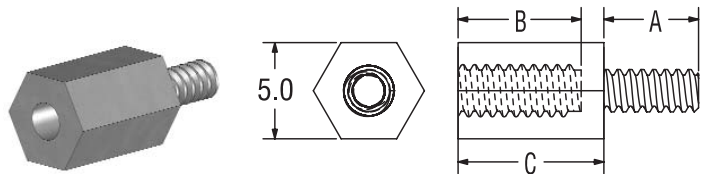


Item	Description	A	B	C
CSN-2439	(FITS M6 Hex)	12.91	10.67	13.97



Metric PCB's, Screws & Nuts

Metric Threaded Male-Female Standoffs

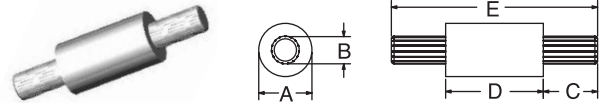


Item	Description	Thread Size	Thread Length A	Thread Depth Min. B	Hex Length C
SOMMF-M3-10-HEX	STANDOFF	M3 X 0.5	8.0	8.0	10.0
SOMMF-M3-12-HEX	STANDOFF	M3 X 0.5	8.0	8.0	12.0
SOMMF-M3-15-HEX	STANDOFF	M3 X 0.5	8.0	8.0	15.0
SOMMF-M3-18-HEX	STANDOFF	M3 X 0.5	8.0	8.0	18.0
SOMMF-M3-20-HEX	STANDOFF	M3 X 0.5	8.0	8.0	20.0
SOMMF-M3-25-HEX	STANDOFF	M3 X 0.5	8.0	8.0	25.0

See page 101 of Catalog 24 for additional Male-Female Standoffs (standard, not metric).

Miscellaneous

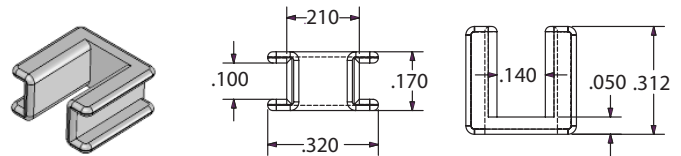
Roller



Item	A	B	C	D	E
RLR-0420-0255-1746	.500	.255	.420	.906	1.746

See page 45 of Catalog 24 for additional Rollers.

Spool

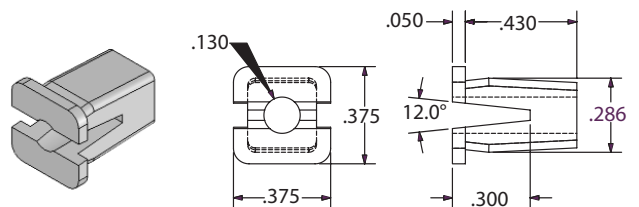


Item
SPO-2631

Nuts

Grommet Nut Special

.270 -.280 HOLE SIZE
.020 -.085 PANEL THICKNESS
#8 SCREW



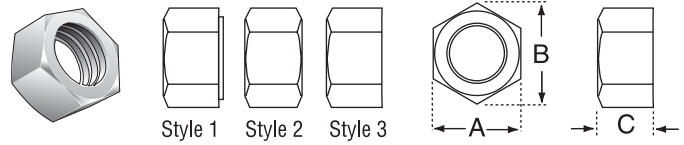
Item
NG-2639-SP

See page 48 of Catalog 24 for additional Grommet Nuts.



Nuts

Hex Nuts

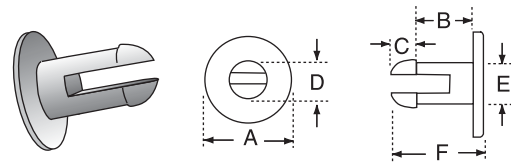


Item	Description	A	REF. B	C	Style
NH-1428-SMP	1/4-28 HEX NUT (SMALL PATTERN)	.375	.427	.128	1

See page 50 of Catalog 24 for additional Hex Nuts.

Rivets and Push-In Fasteners

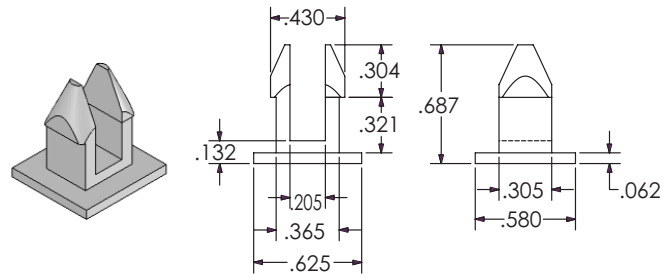
Push-In Fasteners



Item	A Head Diameter	B Panel Thickness	C Foot Length	D Foot Diameter	E Hole Size	F Overall Length
PIF-2634-SP	.500	1.020	.382	.476	.350	1.461
PIF-2674-SP	.332	.340	.174	.250	.170	.586

See pages 55-57 of Catalog 24 for additional Push-In Fasteners.

Special Push-In Fastener



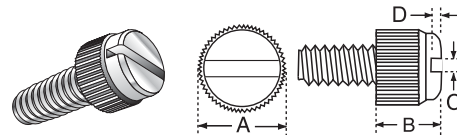
Item

PIF-2623-SQ

See pages 55-57 of Catalog 24 for additional Push-In Fasteners.

Screws and Studs

Slotted Economy Thumb



Item

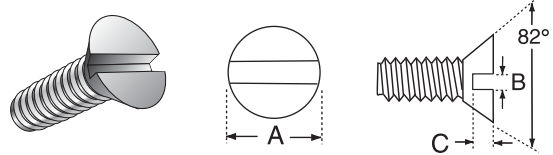
SC-0640-0375-ETS 6-40 X 3/8

See page 59 of Catalog 24 for additional Slotted Economy Thumb Screws.

THREAD SIZE	A	B	C	D
6-40	.325	.240	.045	.060
8-32	.325	.240	.045	.060
10-24	.350	.270	.055	.070
10-32	.350	.270	.055	.070
1/4-20	.480	.370	.060	.090



Slotted 82 Degree Flat

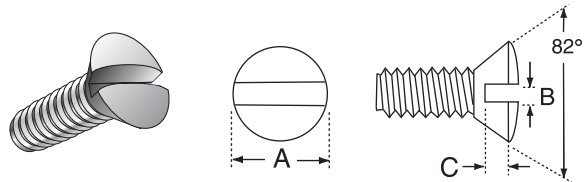


Item	Description
SC-00632-0312-F82	6-32 X 5/16

See page 61 of Catalog 24 for additional Slotted 82 Degree Flat Screws.

THREAD SIZE	A	B	C
0-80	.110	.020	.015
2-56	.160	.028	.020
4-40	.210	.035	.025
6-32	.260	.045	.030
8-32	.312	.050	.035
10-24	.365	.055	.045
10-32	.365	.055	.045
1/4-20	.480	.070	.060
5/16-18	.600	.078	.075
3/8-16	.725	.075	.120

Slotted Oval

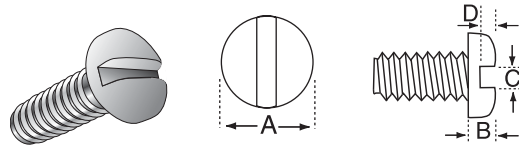


Item	Description
SC-00632-0312-OVL	6-32 X 5/16

See page 64 of Catalog 24 for additional Slotted Oval Screws.

THREAD SIZE	A	B	C
6-32	.279	.045	.067
10-24	.385	.055	.093
10-32	.385	.055	.093

Slotted Pan

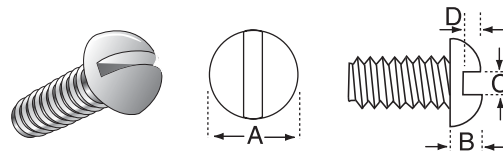


Item	Description
SC-01032-1625-PAN	10-32 X 1 5/8
SC-01420-1750-PAN	1/4-20 X 1 3/4
SC-01420-2000-PAN	1/4-20 X 2

See pages 64-65 of Catalog 24 for additional Slotted Pan Screws.

THREAD SIZE	A	B	C	D
0-80	.110	.040	.020	.018
1-72	.135	.042	.022	.026
2-56	.160	.050	.028	.025
4-40	.215	.065	.035	.035
6-32	.265	.075	.045	.045
8-32	.310	.090	.050	.050
10-24	.365	.105	.055	.055
10-32	.365	.105	.055	.055
1/4-20	.480	.135	.070	.080
1/2-13	.973	.270	.098	.146

Slotted Round



Item	Description
SC-00540-0500-RND	5-40 X 1/2

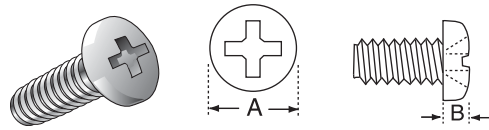
See pages 65-66 of Catalog 24 for additional Slotted Round Screws.

THREAD SIZE	A	B	C	D
2-56	.150	.070	.028	.045
4-40	.205	.080	.035	.050
5-40	.227	.090	.039	.057
6-32	.250	.100	.045	.060
8-32	.290	.110	.050	.065
10-24	.340	.130	.055	.075
10-32	.340	.130	.055	.075
1/4-20	.450	.160	.070	.090
5/16-18	.565	.200	.065	.120
3/8-16	.690	.250	.100	.135



Screws and Studs

Phillips Pan



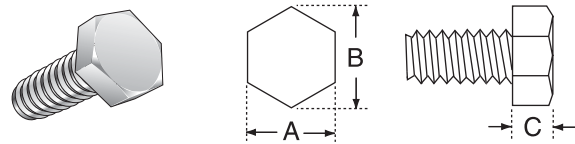
Item	Description
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SC-00440-1625-PHP 4-40 X 1 5/8

See page 71 of Catalog 24 for additional Phillips Pan Screws.

THREAD SIZE	A	B
2-56	.160	.058
4-40	.215	.075
6-32	.263	.092
8-32	.320	.110
10-24	.365	.125
10-32	.365	.125
1/4-20	.485	.165

Hex Cap



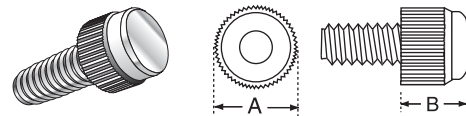
Item	Description
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SC-71614-1250-HEX 7/16-14 X 1 1/4

See page 75 of Catalog 24 for additional Hex Cap Screws.

THREAD SIZE	A	REF. B	C
1/4-20	.430	.500	.175
5/16-18	.495	.555	.200
3/8-16	.555	.635	.235
7/16-14	.620	.710	.281
1/2-13	.735	.850	.330

Unslotted Economy Thumb



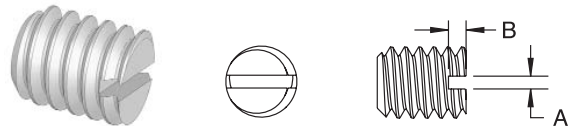
Item	Description
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SC-00640-0375-ETSU 6-40 X 3/8

See page 77 of Catalog 24 for additional Unslotted Economy Thumb Screws.

THREAD SIZE	A	B
6-40	.325	.240
8-32	.325	.240
10-24	.350	.260
10-32	.350	.260
1/4-20	.480	.370

Special Slotted Set



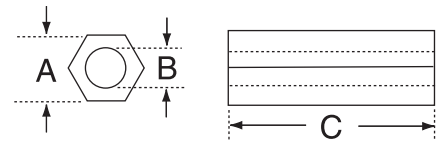
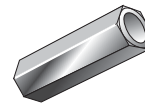
Item	Description	A	B
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SC-03816-0250-SLS-SP 3/8-16 X 1/4 .055 .095

See page 82 of Catalog 24 for additional Special Slotted Set Screws.

Hex Spacers

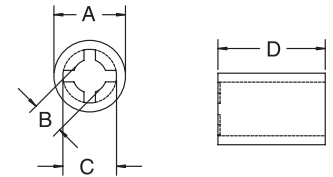
Item	A	B	C	Screw
SPH-2649	3/16	.098	27/32	2
SPH-2666	5/16	.171	3/8	8



See page 84 of Catalog 24 for additional Hex Spacers.

Retaining Spacers

Item	Screw	A	B	C	D
SPRT-0328-0119-0185	—	.328	.119	.198	.185

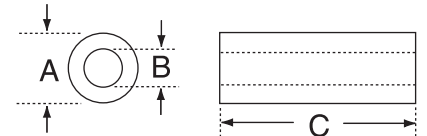


See page 85 of Catalog 24 for additional Retaining Spacers.

Special Spacers

CH = CHAMFER
RA = RADIUS

Item	A	B	C
SPS-0250-0091-0165	.250	.091	.165
SPS-0250-0171-0176	.250	.171	.176
SPS-0315-0165-0374	.315	.165	.374
SPS-0562-0388-0304	.562	.388	.304
SPS-0625-0252-1000	.625	.252	1.000
SPS-0625-0316-0390	.625	.316	.390
SPS-0625-0321-0125	.625	.321	.125
SPS-0625-0375-0375	.625	.375	.375
SPS-0625-0412-0155	.625	.412	.155
SPS-0687-0260-0125	.687	.260	.125

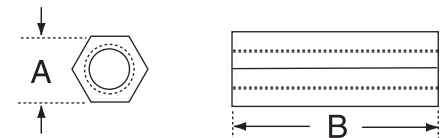
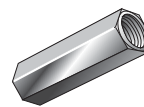


Item	A	B	C
SPS-0690-0315-0788	.690	.315	.788
SPS-0690-0525-1400	.690	.525	1.400
SPS-0740-0310-0437	.740	.310	.437
SPS-0748-0677-0303	.748	.677	.303
SPS-0750-0500-1000	.750	.500	1.000
SPS-0783-0280-0177	.783	.280	.177
SPS-0980-0330-1000	.980	.330	1.000
SPS-1201-0965-0545-RA	1.201	.965	.545
SPS-1250-0281-0250	1.250	.281	.250
SPS-1500-0437-0130	1.500	.437	.130

See pages 86-89 of Catalog 24 for additional Special Spacers.

Tapped Hex Spacers

Item	A	B	Tapped
SPHT-2649-440	3/16	27/32	4-40
SPHT-2666-M5	5/16	3/8	M5 X 0.8

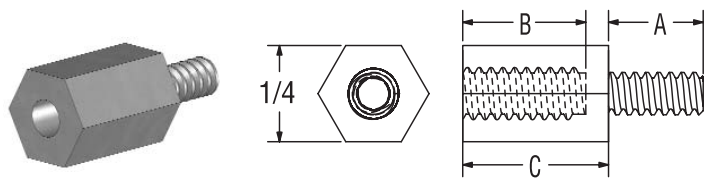


See pages 93-94 of Catalog 24 for additional Tapped Hex Spacers.



Standoffs

Threaded Male-Female Standoffs



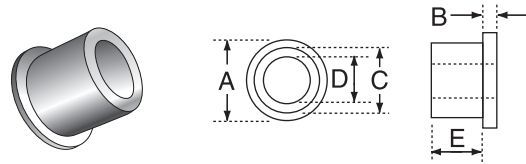
Item	Description	Thread Size	Thread Length A	Thread Depth Min. B	Hex Length C
SOMF-632-0843-HEX-SP	STANDOFF	6-32	1/4	3/8	.843

See page 101 of Catalog 24 for additional Threaded Male-Female Standoffs.

Washers

Shoulder Washers

BV = BEVELED
CH = CHAMFER
RA = RADIUS

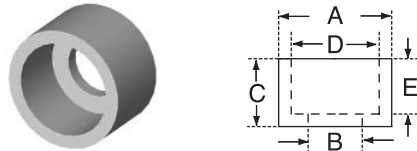


Item	A Major O.D.	B Head Thickness	C Minor O.D.	D I.D.	E Length Under Head
WS-0290-0140-0250	.290	.047	.170	.140	.250
WS-0399-0200-0250	.399	.062	.260	.200	.250
WS-0600-0250-0500	.600	.125	.375	.250	.500
WS-0620-0316-0500	.620	.062	.370	.316	.500

Item	A Major O.D.	B Head Thickness	C Minor O.D.	D I.D.	E Length Under Head
WS-0690-0257-0060	.690	.090	.485	.257	.060
WS-0750-0385-0500	.750	.094	.625	.385	.500
WS-0787-0199-0354	.787	.079	.276	.119	.354

See pages 107-108 of Catalog 24 for additional Shoulder Washers.

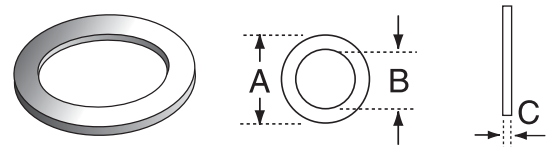
Cup Washers



Item	A	B	C	D	E
WC-2644	.420	.250	.080	.380	.060
WC-2638	.497	.187	.139	.389	.093
WC-2642	.497	.209	.139	.389	.093

See page 109 of Catalog 24 for additional Cup Washers.

Special Flat Washers



Item	A	B	C
WF-0375-0218-0032	.375	.218	.032
WF-0437-0260-0047	.437	.260	.047
WF-0500-0270-0033	.500	.270	.033
WF-0540-0405-0080	.540	.405	.080
WF-0551-0402-0079	.551	.402	.079
WF-0562-0265-0030	.562	.265	.030
WF-0625-0315-0031	.625	.315	.031
WF-0625-0437-0093	.625	.437	.093
Item	A	B	C
WF-0700-0560-0042	.700	.560	.042
WF-0755-0320-0062	.755	.320	.062
WF-0866-0590-0059	.866	.590	.059
WF-0906-0752-0059	.906	.752	.059
WF-0968-0515-0062	.968	.515	.062
WF-1120-0385-0090	1.120	.385	.090
WF-1375-0250-0064	1.375	.250	.064
WF-2362-0335-0078	2.362	.335	.078

See pages 112-113 of Catalog 24 for additional Special Flat Washers.



DECIMAL EQUIVALENT AND TAP DRILL SIZES

FRACTION OR DRILL SIZES	DECIMAL EQUIVALENT	TAP SIZE	FRACTION OR DRILL SIZES	DECIMAL EQUIVALENT	TAP SIZE	FRACTION OR DRILL SIZES	DECIMAL EQUIVALENT	TAP SIZE
80	.0135		27	.1440		3/8	.3750	
79	.0145		26	.1470		V	.3770	
1/64	.0156		25	.1495	10-24	W	.3860	
78	.0160		24	.1520		25/64	.3906	7/16-20
77	.0180		23	.1540		X	.3970	
76	.0200		5/32	.1562		Y	.4040	
75	.0210		22	.1570		13/32	.4060	
74	.0225		21	.1580		Z	.4130	
73	.0240		20	.1610		27/64	.4219	1/2-13
72	.0250		19	.1660		7/16	.4375	
71	.0260		18	.1695		29/64	.4531	1/2-20
70	.0280		11/64	.1719		15/32	.4687	
69	.0292		17	.1730		31/64	.4844	9/16-12
68	.0310		16	.1770	12-24	1/2	.5000	
1/32	.0312		15	.1800		33/64	.5156	9/16-18
67	.0320		14	.1820	12-28	17/32	.5312	5/8-11
66	.0330		13	.1850	12-32	35/64	.5469	
65	.0350		3/16	.1875		9/16	.5625	
64	.0360		12	.1890		37/64	.5781	5/8-18
63	.0370		11	.1910		19/32	.5937	
62	.0380		10	.1935		39/64	.6094	11/16-11
61	.0390		9	.1960		5/8	.6250	11/16-16
60	.0400		8	.1990		41/64	.6406	
59	.0410		7	.2010	1/4-20	21/32	.6562	3/4-10
58	.0420		13/64	.2031		43/64	.6719	
57	.0430		6	.2040		11/16	.6875	3/4-16
56	.0465		5	.2055		45/64	.7031	
3/64	.0469	0-80	4	.2090		23/32	.7187	
55	.0520		3	.2130	1/4-28	47/64	.7344	
54	.0550	1-56	7/32	.2187		3/4	.7500	
53	.0590	1-64, 72	2	.2210		49/64	.7656	7/8-9
1/16	.0625		1	.2280		25/32	.7812	
52	.0635		A	.2340		51/64	.7969	
51	.0670		15/64	.2344		13/16	.8125	7/8-14
50	.0700	2-56, 64	B	.2380		53/64	.8281	
49	.0730		C	.2420		27/32	.8437	
48	.0760		D	.2460		55/64	.8594	
5/64	.0781		1/4	.2500		7/8	.8750	1-8
47	.0785	3-48	F	.2570	5/16-18	57/64	.8906	
46	.0810		G	.2610		29/32	.9062	
45	.0820	3-56, 4-32	17/64	.2656		59/64	.9219	1-12
44	.0860	4-38	H	.2660		15/16	.9375	1-14
43	.0890	4-40	I	.2720	5/16-24	61/64	.9531	
42	.0935	4-48	J	.2770		31/32	.9687	
3/32	.0937		K	.2810		63/64	.9844	1 1/8-7
41	.0960		9/32	.2812		1	1.00	
40	.0980		L	.2900		PIPE THREAD SIZES		
39	.0995		M	.2950		THREAD	DRILL	
38	.1015	5-40	19/64	.2969		1/8 - 27	R	
37	.1040	5-44	N	.3020		1/4 - 18	7/16	
36	.1065	6-32	5/16	.3125	3/8-16	3/8 - 18	37/64	
7/64	.1094		O	.3160		1/2 - 14	23/32	
35	.1100		P	.3230		3/4 - 14	59/64	
34	.1110	6-36	21/64	.3281		1 - 11-1/2	1-5/32	
33	.1130	6-40	Q	.3320	3/8-24	1-1/4 - 11-1/2	1-1/2	
32	.1160		R	.3390		1-1/2 - 11-1/2	1-47/64	
31	.1200		11/32	.3437		2 - 11-1/2	2-7/32	
1/8	.1250		S	.3480		2-1/2 - 8	2-5/8	
30	.1285		T	.3580		3 - 8	3-1/4	
29	.1360	8-32, 36	23/64	.3594		3-1/2 - 8	3-3/4	
28	.1405	8-40	U	.3680	7/16-14	4 - 8	4-1/4	
9/64	.1406							



FRACTION, DECIMAL AND METRIC CONVERSION CHART 0 - 1"

FRACTIONS	DECIMALS	MILLIMETERS
1/64	.015625	0.397
1/32	.03125	0.794
1/16	.0625	1.191
3/64	.046875	1.588
5/64	.078125	1.984
3/32	.09375	2.381
7/64	.109375	2.778
1/8	.1250	3.175
9/64	.140625	3.572
5/32	.15625	3.969
11/64	.17185	4.366
3/16	.1875	4.763
13/64	.203125	5.159
7/32	.21875	5.556
15/64	.234375	5.953
1/4	.2500	6.350
17/64	.265625	6.747
9/32	.28125	7.144
19/64	.296875	7.541
5/16	.3125	7.938

FRACTIONS	DECIMALS	MILLIMETERS
21/64	.328125	8.334
11/32	.34375	8.731
23/64	.359375	9.128
3/8	.3750	9.525
25/64	.390625	9.922
13/32	.40625	10.319
27/64	.421875	10.716
7/16	.4375	11.113
29/64	.453125	11.509
15/32	.46875	11.906
31/64	.484375	12.303
1/2	.5000	12.700
33/64	.515625	13.097
17/32	.53125	13.494
35/64	.546875	13.891
9/16	.5625	14.288
37/64	.578125	14.684
19/32	.59375	15.081
39/64	.609375	15.475
5/8	.6250	15.875

FRACTIONS	DECIMALS	MILLIMETERS
41/64	.640625	16.272
21/32	.65625	16.669
43/64	.671875	17.066
11/16	.6875	17.463
45/64	.703125	17.859
23/32	.71875	18.256
47/64	.734375	18.653
3/4	.7500	19.050
49/64	.765625	19.447
25/32	.78125	19.844
51/64	.796875	20.241
13/16	.8125	20.638
53/64	.828125	21.034
27/32	.84375	21.431
55/64	.859375	21.828
7/8	.8750	22.225
57/64	.890625	22.622
15/16	.9375	23.813
1	1.00	25.400

INCHES TO MILLIMETER CONVERSION CHART 0 - 66"

in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
0.001	0.0254	1	25.4	28	711.2	41	1041.4	54	1371.6
0.002	0.0508	2	50.8	29	736.6	42	1066.8	55	1397.0
0.003	0.0762	3	76.2	30	762.0	43	1092.2	56	1422.4
0.004	0.1016	4	101.6	31	787.4	44	1117.6	57	1447.8
0.005	0.1270	5	127.0	32	812.8	45	1143.0	58	1473.2
0.006	0.1524	6	152.4	33	838.2	46	1168.4	59	1498.6
0.007	0.1778	7	177.8	34	863.6	47	1193.8	60	1524.0
0.008	0.2032	8	203.2	35	889.0	48	1219.2	61	1549.4
0.009	0.2286	9	228.6	36	914.4	49	1244.6	62	1574.8
0.01	0.254	10	254.0	37	936.8	50	1270.0	63	1600.2
0.02	0.508	11	279.4	38	965.2	51	1295.4	64	1625.6
0.03	0.762	12	304.8	39	990.6	52	1320.8	65	1651.0
0.04	1.016	13	330.2	40	1016.0	53	1346.2	66	1676.4
0.05	1.270	14	355.6						
0.06	1.524	15	381.0						
0.07	1.778	16	406.4						
0.08	2.032	17	431.8						
0.09	2.286	18	457.2						
0.1	2.54	19	482.6						
0.2	5.08	20	508.0						
0.3	7.62	21	533.4						
0.4	10.16	22	558.8						
0.5	12.70	23	584.2						
0.6	15.24	24	609.6						
0.7	17.78	25	635.0						
0.8	20.32	26	660.4						
0.9	22.86	27	685.8						

**Easy To Use
Fraction,
Decimal,
and Metric
Conversion
Charts**

Multiply By	From → To		Multiply By
	To ←	From →	
0.03937	inch	millimeter	25.4
0.0016	inch ²	millimeter ²	645.16
0.061	inch ³	centimeter ³	16.3871
0.2642	gal. (U.S.)	liter	3.7845
0.03527	oz. (AVDP)	gram	28.3495
2.2044	pound	kilogram	0.4536
62.43	lbs. / ft ²	g / cm ³	0.0160
1.8° C	°F	°C	(°F-32)/1.8
0.145	psi	kPa	6.8948
14.2247	psi	kg / cm ²	0.0703



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cords & cables fast!

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including wood, plastic
& metal

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yet are retained
securely



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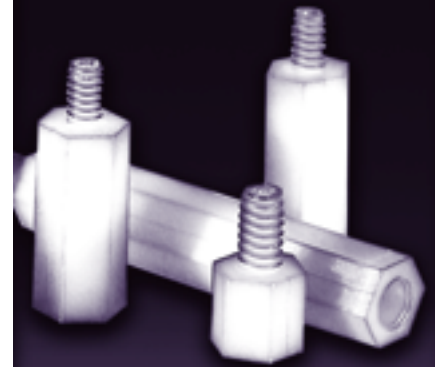
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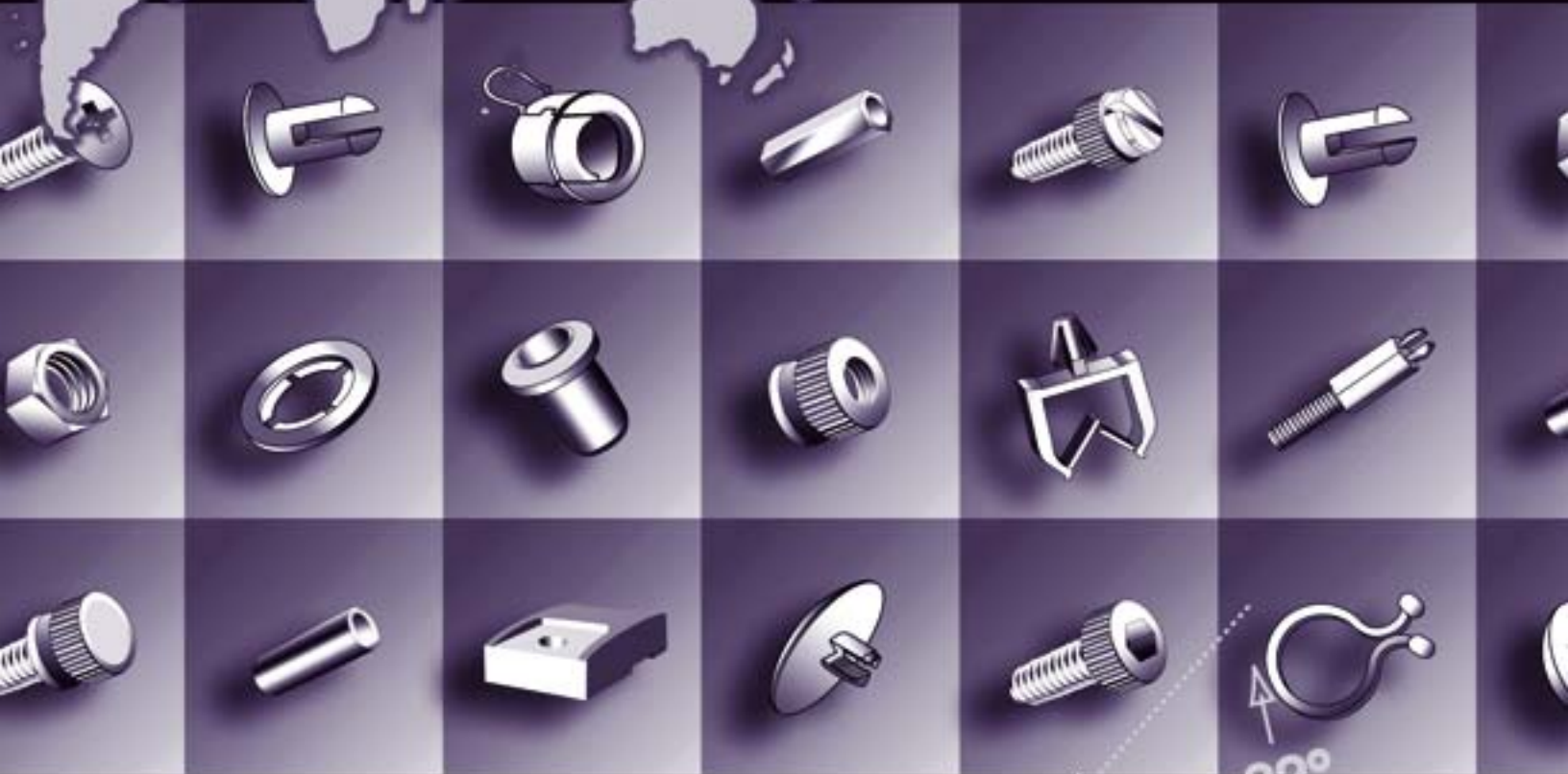
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