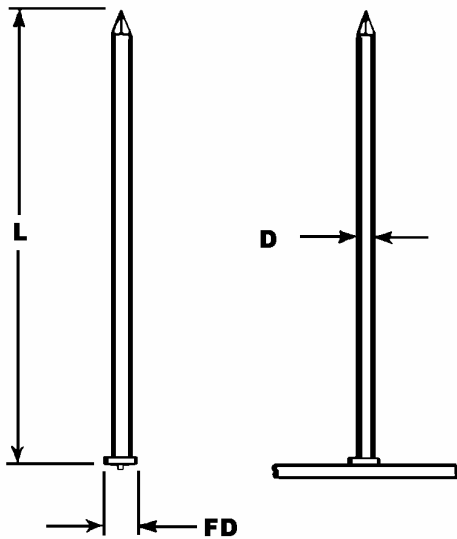


WELD PINS

STANDARD WELD PIN (CD)

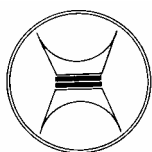


PIN

		STEEL	ALUMINUM
SIZE	D	FD	FD
14 GAUGE	.080	.160	-
12 GAUGE	.105	.180	.230
10 GAUGE	.135	.195	.250
LENGTH AS REQUIRED			

**Blunt point now available.

MATERIAL: LOW CARBON STEEL C - 0.23% max. P-0.04% max. Mn - 0.90% max. S - 0.05% max.	STAINLESS STEEL AISI grade - 302/304/305 std. Other grades available upon request.
MECHANICAL PROPERTIES: Tensile 60,000 psi(min.) Yield 50,000 psi(min.) Elongation 20,000 (in 2 inches)	Values for various grades available upon request.
PLATING: Galvanized Plating is standard. Copper & other plating available.	Does not apply to Stainless.
ANNEALING: Can be annealed where required.	Can be annealed where required.
MATERIAL: ALUMINUM Alloy - 1100-H14 standard. Other alloys available upon request.	
MECHANICAL PROPERTIES: Values for aluminum alloys available upon request.	
APPLICATION: This is considered the "standard" weld pin, and is used in most applications. This pin is best used when you are working with clean metal. If rust, oil, or paint is present, cleaning or grinding may be required.	

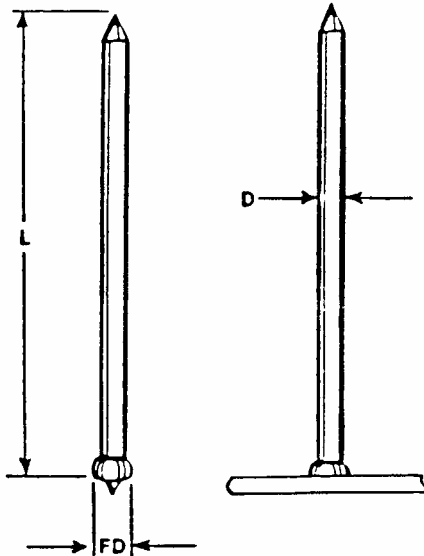


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 800 TOUHY AVENUE
 ELK GROVE VILLAGE, ILLINOIS 60007
 PHONE: 847.228.1990 Toll Free: 1-800-HANLONS 426-5667
 FAX: 847.228.1995
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WELD PINS

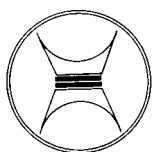
SURE FIRE/SURE SHOT (CD OR ARC)



PIN

SIZE	D	L	FD
12 GAUGE	.105	AS REQUIRED	.171
10 GAUGE	.135	AS REQUIRED	.195

MATERIAL: LOW CARBON STEEL C - 0.23% max. P-0.04% max. Mn - 0.90% max. S - 0.05% max.	STAINLESS STEEL AISI grade - 302/304/305 std. Other grades available upon request.
MECHANICAL PROPERTIES: Tensile 60,000 psi(min.) Yeild 50,000 psi(min.) Elongation 20,000 (in 2 inches)	Values for various grades available upon request.
PLATING: Galvanized Plating Standard Copper & Other Plating available.	Does not apply to Stainless.
ANNEALING: Can be annealed where required.	Can be annealed where required.
APPLICATION: Standard pin used on coal fired power plant boiler tubes. Originally designed for welding to surfaces covered with mill scale, rust, or paint without costly preparation. Heavy CD equipment required. Hanlon experience shows limited success by this method. Hanlon recommends these pins be used only with Arc Stud type equipment.	

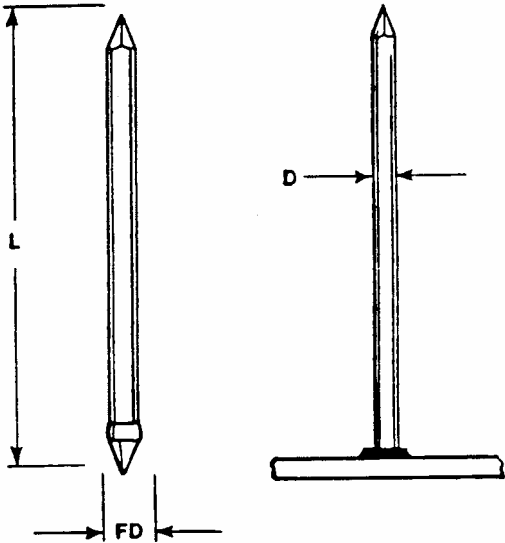


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WELD PINS

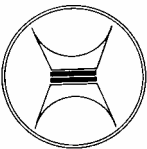
POWER TIP/POWER POINT (CD OR ARC)



PIN

SIZE	D	L	FD
12 GAUGE	.105	AS REQUIRED	.171
10 GAUGE	.135	AS REQUIRED	.187

MATERIAL: LOW CARBON STEEL C - 0.23% max. P-0.04% max. Mn - 0.90% max. S - 0.05% max.	STAINLESS STEEL AISI grade - 302/304/305 std. Other grades available upon request.
MECHANICAL PROPERTIES: Tensile 60,000 psi(min.) Yeild 50,000 psi(min.) Elongation 20,000 (in 2 inches)	Values for various grades available upon request.
PLATING: Galvanized Plating Standard Copper & Other Plating available.	Does not apply to Stainless.
ANNEALING: Can be annealed where required.	Can be annealed where required.
APPLICATION: Originally designed for welding to surfaces covered with mill scale, rust, or paint without costly preparation. Heavy CD equipment required. Hanlon experience shows limited success by this method. Hanlon recommends these pins be used only with Arc Stud type equipment.	

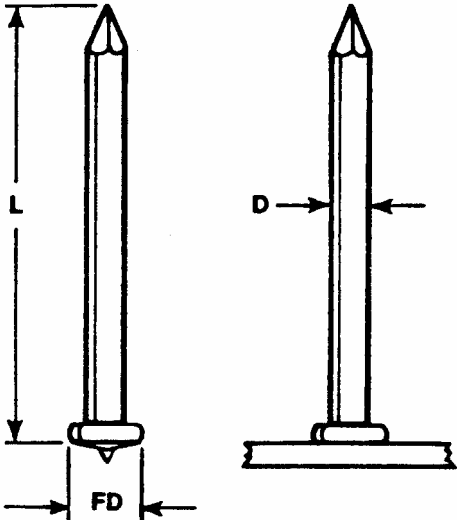


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 800 TOUHY AVENUE
 ELK GROVE VILLAGE, ILLINOIS 60007
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 FAX: 847.228.1995
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WELD PINS

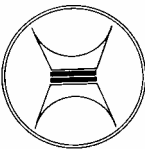
CONICAL TIP ALUMINUM (CD)



PIN

SIZE	D	L	FD
12 GAUGE	.105	AS REQUIRED	.220
10 GAUGE	.135	AS REQUIRED	.250

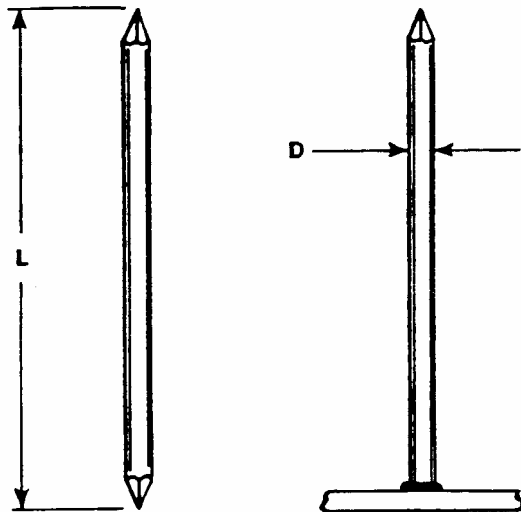
<p>MATERIAL: ALUMINUM Alloy - 1100 - H14 std. Other alloys available upon request.</p>
<p>MECHANICAL PROPERTIES: Values for various alloys available upon request.</p>
<p>APPLICATION: Ideally suited for welding to Stucco embossed panels.</p>



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 FAX: 847.228.1995
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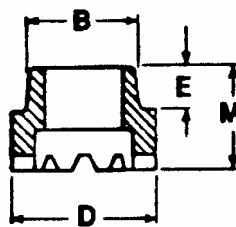
DOUBLE POINT (ARC)



PIN

SIZE	D	L	Ferrule Code
10 GAUGE	.135	AS REQUIRED	F135

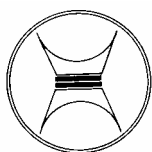
Other diameters available upon request.



FERRULE

CODE	B	D	E	M
F135	.281	.375	.156	.390

MATERIAL: LOW CARBON STEEL C - 0.23% max. P-0.04% max. Mn - 0.90% max. S - 0.05% max.	STAINLESS STEEL AISI grade - 302/304/305 std. Other grades available upon request.
MECHANICAL PROPERTIES: Tensile 60,000 psi(min.) Yeild 50,000 psi(min.) Elongation 20,000 (in 2 inches)	Values for various grades available upon request.
PLATING: Galvanized Plating Standard Copper & Other Plating available.	Does not apply to Stainless.
ANNEALING: Can be annealed where required.	Can be annealed where required.
APPLICATION: This was the standard pin used in Power Plant applications many years ago. Must be welded with Arc Stud Equipment and requires use of ferrules. Hanlon considers this pin obsolete. Hanlon recommends Sure Fire Pins be used in place of double point pins. Sure fire pins are more easily applied and do not require ferrules.	



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ELK GROVE VILLAGE, ILLINOIS 60007
PHONE: 847.228.1990 Toll Free: 1-800-HANLONS 426-5667
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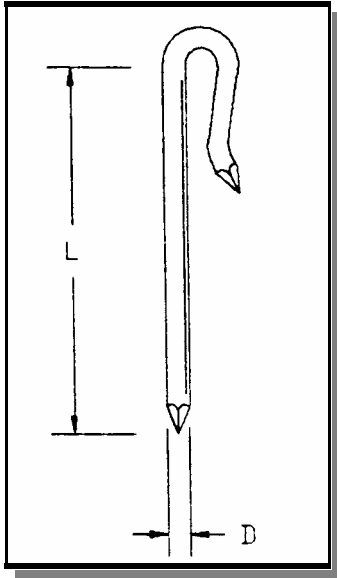


J - HOOKS

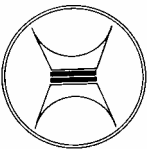
PIN

SIZE	D	L
10 GAUGE	.135	AS REQUIRED

Other diameters available upon request.

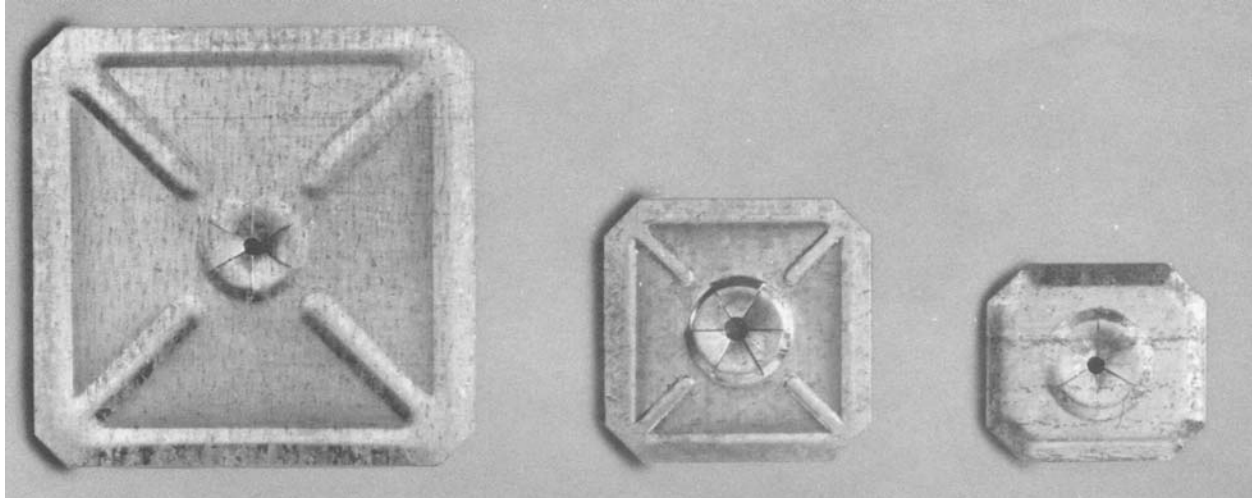


MATERIAL: LOW CARBON STEEL C - 0.23% max. P-0.04% max. Mn - 0.90% max. S - 0.05% max.	STAINLESS STEEL AISI grade - 302/304/305 std. Other grades available upon request.
MECHANICAL PROPERTIES: Tensile 60,000 psi(min.) Yeild 50,000 psi(min.) Elongation 20,000 (in 2 inches)	Values for various grades available upon request.
PLATING: Galvanized Plating Standard Copper & Other Plating available.	Does not apply to Stainless.
ANNEALING: Can be annealed where required.	Can be annealed where required.
APPLICATION: This is the standard insulation fastener used to secure insulation to wire mesh.	



WASHERS, CAPS & NUTS

SQUARE INSULATION WASHERS - SELF LOCKING



K250

K150S

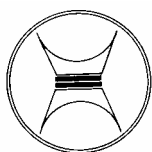
K125

TYPE	K250	K150S	K125
DIMENSIONS	2-1/2" X 2-1/2"	1-1/2" X 1-1/2"	1-1/4" X 1-1/8"
THICKNESS	.015 NOM	.015 NOM	.015 NOM
MATERIALS	MILD STEEL (GALVANIZED), STAINLESS STEEL, OR ALUMINUM		
EDGES	BEVELED	BEVELED	BEVELED
PACKAGING	1M	1M OR 3M	1M
SHIPPING WEIGHT PER 1000	28-1/2 POUNDS	10 POUNDS	6 POUNDS

HANLON EQUIPMENT Self-Locking Washers are used in conjunction with weld pin, insul-anchors and lacing anchors to fasten insulation in place. Simply press the self-locking washer onto the pin up against the insulation until the desired position is reached and then clip off, or bend over, the remaining portions of pin for permanent attachment.

The choice between Round or Square self-locking washers is basically a matter of aesthetics or personal preference. The domed, multi-lanced hole design provides for ease of locating washer on pin and positive self-locking. Some styles of washers are manufactured with a beveled edge to prevent the washer from cutting into the insulation facing.

Self-Locking Washers are available according to the chart above and with standard 10 GA, 12 GA, or 14 GA hole sizes off-the-shelf. Other material/plating combinations and hole sizes are available by special order.

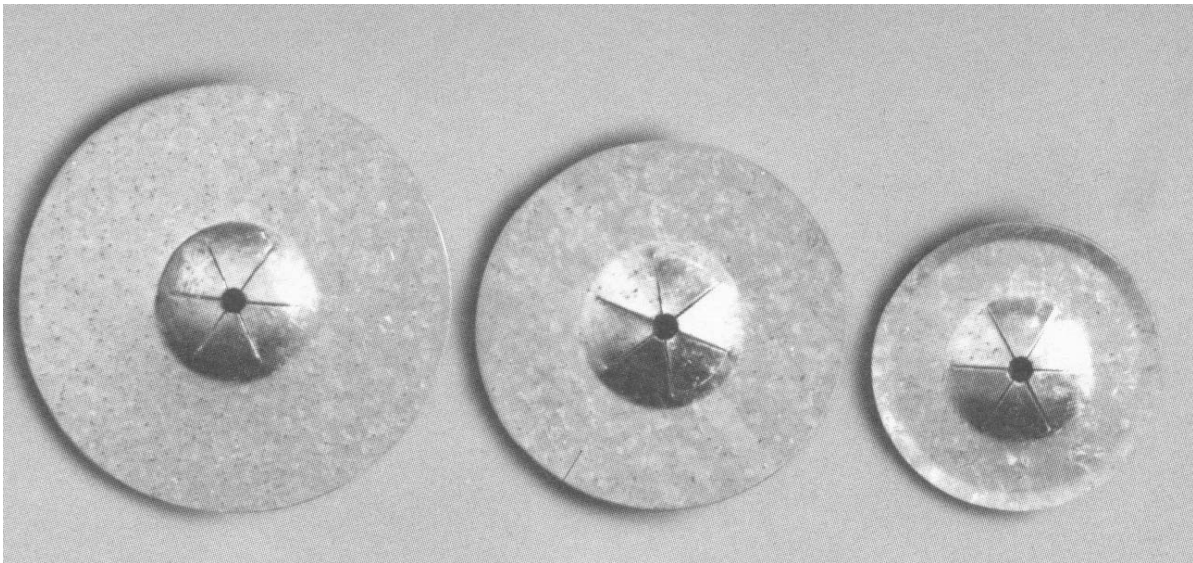


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800 TOUHY AVENUE
ELK GROVE VILLAGE, ILLINOIS 60007
PHONE: 847.228.1990 Toll Free: 1-800-HANLONS 426-5667
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WASHERS, CAPS & NUTS

ROUND INSULATION WASHERS - SELF LOCKING



K150

K120

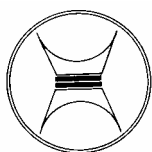
K100

TYPE	150	120	100
DIAMETER	1-1/2"	1-3/16"	1"
THICKNESS	.015 NOM	.015 NOM	.015 NOM
MATERIALS	MILD STEEL (GALVANIZED), STAINLESS STEEL, OR ALUMINUM		
EDGES	FLAT	FLAT	BEVELED
PACKAGING	1M	1M OR 3M	1M
SHIPPING WEIGHT PER 1000	28-1/2 POUNDS	10 POUNDS	6 POUNDS

HANLON EQUIPMENT Self-Locking Washers are used in conjunction with weld pin, insul-anchors and lacing anchors to fasten insulation in place. Simply press the self-locking washer onto the pin up against the insulation until the desired position is reached and then clip off, or bend over, the remaining portions of pin for permanent attachment.

The choice between Round or Square self-locking washers is basically a matter of aesthetics or personal preference. The domed, multi-lanced hole design provides for ease of locating washer on pin and positive self-locking. Some styles of washers are manufactured with a beveled edge to prevent the washer from cutting into the insulation facing.

Self-Locking Washers are available according to the chart above and with standard 10 GA, 12 GA, or 14 GA hole sizes off-the-shelf. Other material/plating combinations and hole sizes are available by special order.

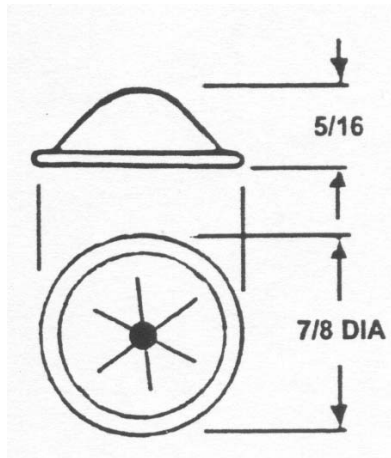


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 ELK GROVE VILLAGE, ILLINOIS 60007
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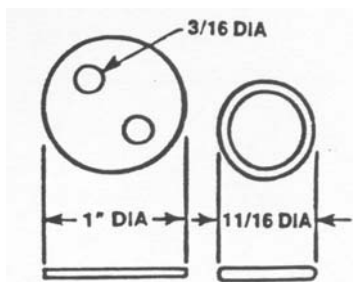
WASHERS, CAPS & NUTS

SPEED CAPPED WASHERS

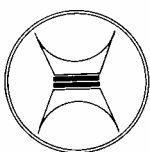


APPLICATION	Designed to permanently lock on to 10, 12, or 14 gauge weld pins or insul-anchors where appearance is a major factor, or where no sharp points or edges are permissible on the surface.
MATERIAL	Decorative Domed Cap - Aluminum Self-Locking Insert - Stainless Steel - "Star" pattern.
COLOR	Plain, bright aluminum. Painted white. Other painted colors are available by special order.

LACING WASHER AND RING



APPLICATION	Designed to be used with lacing wire to wrap insulation around irregular shapes.
MATERIAL	Washer - Aluminum or Stainless Steel Ring - Zinc alloy, bright zinc plated.
NO-AB	Washers are stamped NO AB to indicate non-asbestos material.

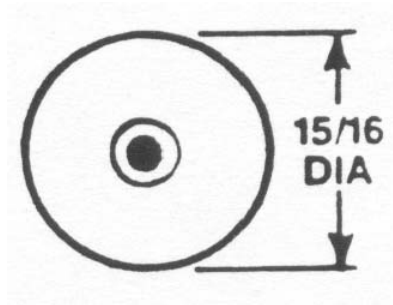
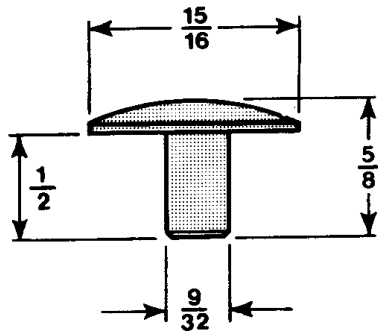


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 ELK GROVE VILLAGE, ILLINOIS 60007
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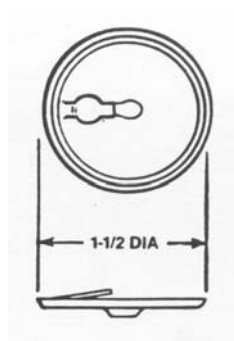
WASHERS, CAPS & NUTS

ANNULAR RING CAP FOR USE WITH ANNULAR RING STUDS

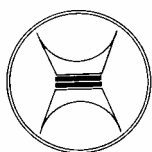


APPLICATION	Designed to permanently lock on to Navy Annular Ring Studs.
MATERIAL	Aluminum
SIZE	For 1/8" or 3/16" Diameter studs.

KEY HOLE SLOTTED WASHER FOR 3/16" DIAMETER NOTCHED END STUDS



APPLICATION	Designed to permanently lock on to Navy Notched End Studs.
MATERIAL	Mild Steel
PLATING	Cadmium or Galvanized plating available

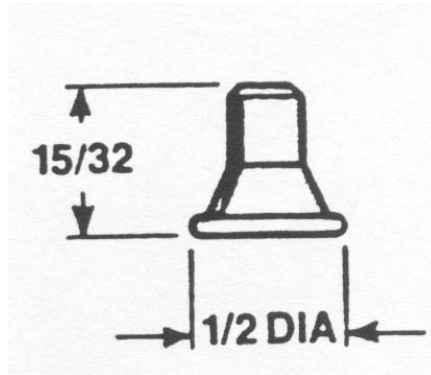


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800 TOUHY AVENUE
ELK GROVE VILLAGE, ILLINOIS 60007
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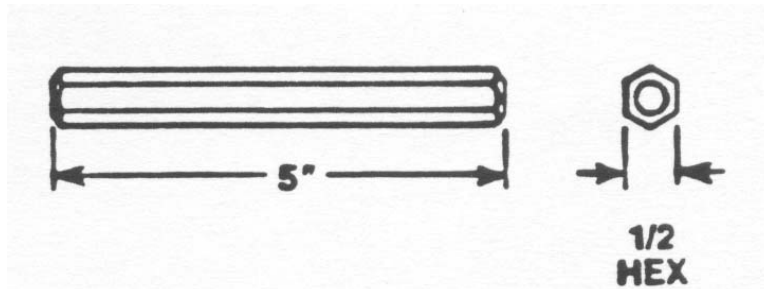
WASHERS, CAPS & NUTS

ANNULAR GROOVE CAP FOR USE WITH ANNULAR GROOVE STUDS

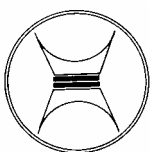


APPLICATION	Designed to permanently lock on to annular groove shoulder studs to hold panel in place against stud shoulder.
MATERIAL	Aluminum
SIZE	For 3/16" Diameter annular groove

CAP SETTING TOOL FOR INSTALLING WAG AL CAPS



APPLICATION	Designed for installation of the Annular Groove Cap above.
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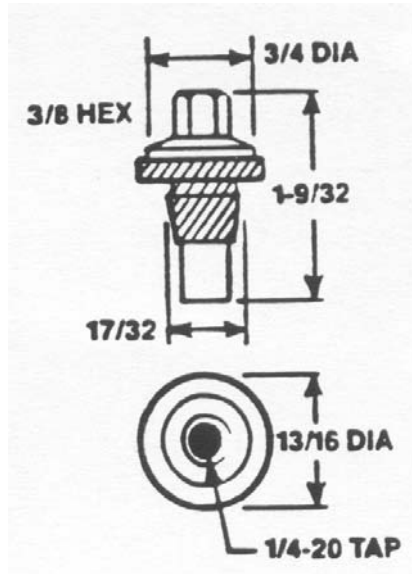


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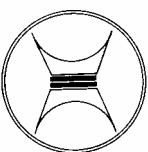


WASHERS, CAPS & NUTS

PANEL NUT FOR 1/4-20 THREADED STUDS



APPLICATION	Designed to be threaded down through pre-drilled holes in panel on to pre-welded studs providing firm, water resistant attachment.
MATERIAL	Aluminum & Neoprene Rubber.
SIZE	For 1/4-20 threaded studs.

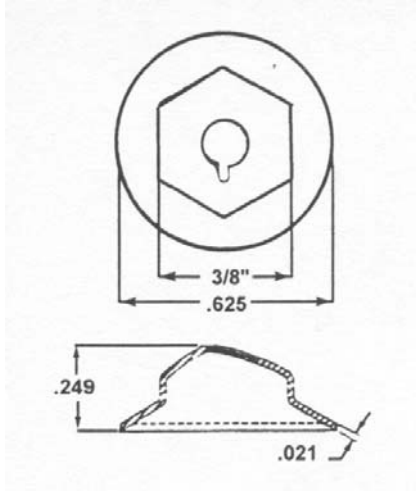


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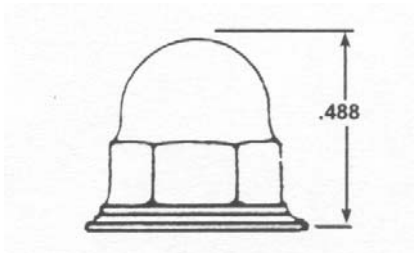
WASHERS, CAPS & NUTS

COMBINATION NUTS



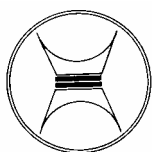
**COMBINATION HEX-NUT
AND LOCK WASHER "OPEN"**
FOR 10-24 THREADED STUDS

APPLICATION	For use with 10-24 weld studs. One-piece washer-type locknut combination serving as hex nut, lockwasher and flat washer. Locking design eliminates back-off due to vibration and thermal stress.
MATERIAL	Mild Steel, Zinc Plated
SIZE	For 10-24 threaded studs.



**COMBINATION HEX-NUT
AND LOCK WASHER "CLOSED"**
FOR 10-24 THREADED STUDS

APPLICATION	For use with 10-24 weld studs. One-piece washer-type locknut combination serving as hex nut, lockwasher and flat washer. Design encloses fastener when placed on stud.
MATERIAL	Mild Steel, Nickel Plated
SIZE	For 10-24 threaded studs.



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FAX: 847.228.1995
INTERNET: hanlonequipment.com

