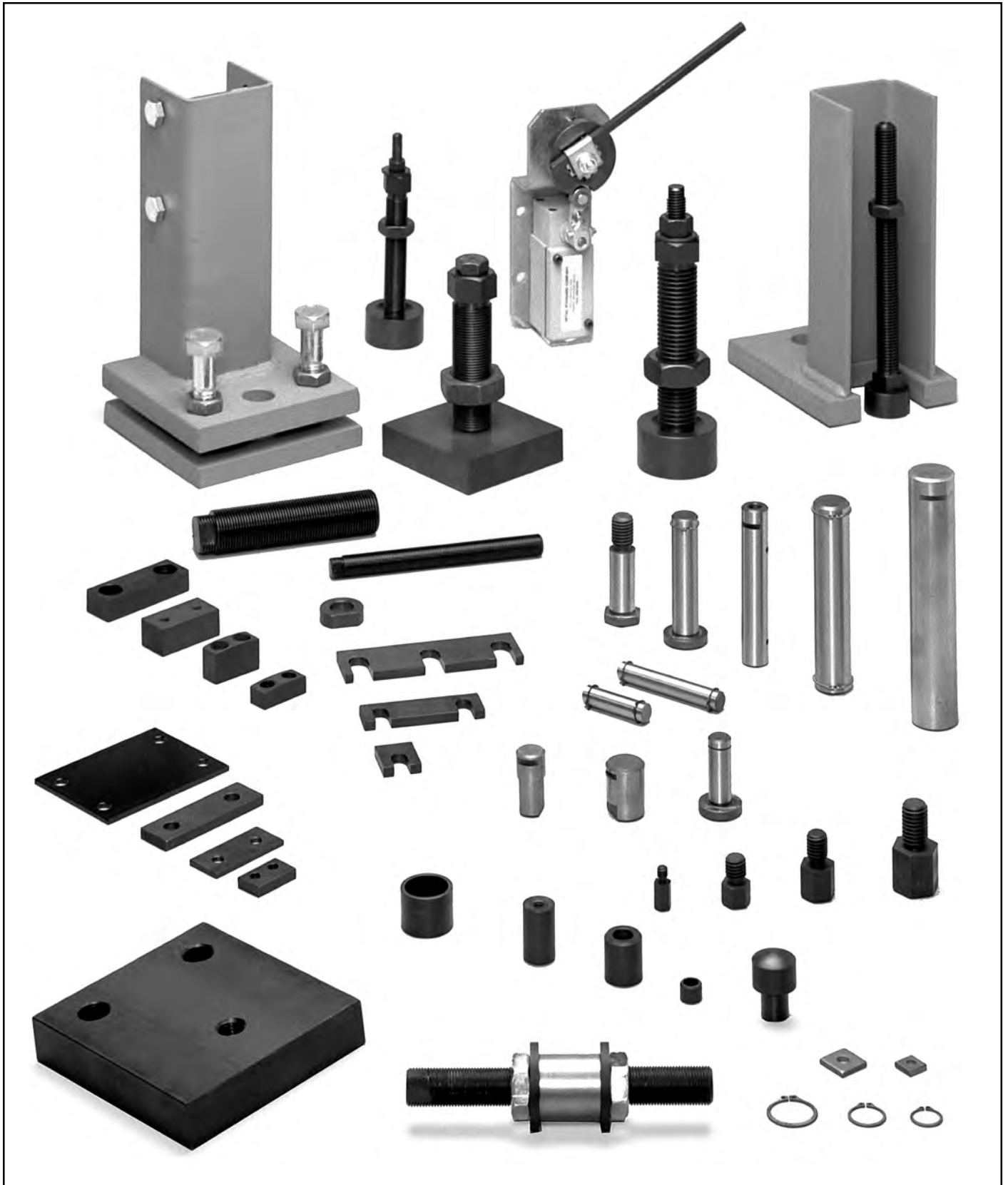


The image displays a technical drawing of a bolt and nut assembly. The central part of the drawing shows the front view of the bolt, which is a long cylinder with a hexagonal head on the left and a hexagonal nut on the right. The bolt is shown in a perspective view, with a dashed line indicating the internal thread. The nut is shown in a perspective view, with a dashed line indicating the internal thread. The top view of the bolt is shown above the front view, and the top view of the nut is shown to the right of the front view. The side view of the bolt is shown to the left of the front view, and the side view of the nut is shown below the front view. The drawing is a line drawing with no shading.

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Detail Standard Co.

Serving Industry With Quality Components



Detail Standard Co.

SECTION A - GENERAL

GENERAL INFORMATION

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Detail Standard Co.

General Information

QUALITY

Detail Standard Company manufactures and supplies only quality products. We guarantee that all items are manufactured to the specifications in our catalog and on our website. To insure this quality, we perform dimensional inspections of our products prior to shipping them to your plant. Each order is cross-checked to make sure that you receive all and the right parts, you ordered.

TECHNICAL/APPLICATION ASSISTANCE

Our *Sales Engineers* have a strong background in *design engineering and build of automation, machine assembly systems, special machines and more*. Our engineers are ready to assist and answer your technical questions and provide application assistance by calling us at **586-776-5910**

DESIGN SERVICE

With our strong background in *Design Engineering* and building of *Automation, Machine assembly systems, Special machines* and more. Our Engineers are ready to assist in design services through our sister company *Paradigm Design Service*.

PRODUCT CHANGES & ADDITIONS

We are continually adding to and improving our product line. We manufacture products that are interchangeable with our competition and at the same time provide superior quality and on time delivery. We do not change the functionality, physical dimensions or physical properties of any of our products after they are published for sale. A *Detail Standard* product from our first catalog can be re-ordered today with the same part number.

STOCK MATERIALS

1018, 1045, 4150, 11L17, 12L14, Aluminum, Bronze, Stainless Steel, Tool Steels & T. G. & P. (Special material in section "F" can be made from Pre-Ground Stock, just add "G" after part number) Special sizes and tolerances are available upon request.

MACHINING SERVICE CAPABILITIES

Our *Engineers* and *machine shop* are ready to provide *our customers* with the best service and quality possible. From single piece prototype or special need repair parts to short run production, to any machining needs from start to finish. Start with an idea, blueprint or sample and let us take it from there. We would be happy to discuss any ways in which we can meet your machining needs. Choose *Detail Standard Company* to get the job done right and on time.

CNC Turning /up to 14" diameter

CNC Milling / Vertical & Horizontal 3 & 5 Axis

CNC Screw Machining High Precision Parts

Quality Metal Fabrication, Assembly and Prototype using CAD Technology to produce, complicated shapes on most ferrous and non ferrous materials.

Assembly service of Fixtures, Pallets, Sub-Assemblies and more!

Detail Standard Co.

PRICING & ORDER QUANTITY

Our prices are quantity controlled for price advantage. There are no minimum quantities.

TERMS OF PAYMENT

We may require new customers to pay on *C.O.D. or Cash pick up basis* until credit checks have been completed. Credit accounts of net. 30 days may be established after completing one of our standard credit application forms.

DELIVERIES

Please be advised, parts are made to order and allow two (2) weeks for shipment, if you ordered a standard part in the past we probably have some extras on hand for next day shipment. *On rush orders, or critical downtime situations* we will do our best to deliver your order. We can hand deliver your order if you are reasonably close to our plant or we can make special arrangements to suit your needs.

SPECIAL ITEMS

For special variations of any products, including metric sizes, please contact one of our *sales engineers*. If you have an item you would like us to quote, please fax or e-mail a drawing or sketch and we will reply with a price and delivery typically within two (2) business days.

BLANKET ORDERS

We can establish blanket orders for parts (held for your inventory) that you need delivered at intervals over a one year period. This gives you the cost advantage of ordering larger quantities of parts to receive a better price break. We can schedule shipments to meet your production needs. Just contact our office to discuss any blanket order terms for your particular needs.

CANCELLED ORDERS

We will accept the cancellation of any order within two (2) business days.

HOLDING ITEMS

We will put individual orders on '*hold*', at the customer's request, for a period of *thirty days past the promised delivery date*. At the end of this thirty-day period, orders will be removed from the '*hold*' status, shipped and billed to the customer. If you need to put an order on '*hold*' for a longer period than thirty days we will be glad to discuss terms that will work for both of us.

RETURN POLICY

All sales are final with the exception of part damaged by freight carrier's (IE.UPS, FEDEX, etc.)

Detail Standard Co.

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Detail Standard Co.

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DKPC	B-5 & 6	HWC	C-11 & 12	SFHH	B-19 & 20
DKPCH	B-7 & 8	HWH	C-11 & 12	SFT	B-17 & 18
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FB	G-40	LS-F	G-32	TTAH	D-7
FMC	G-3	LS-R	G-32	TTAT	D-7
				TTP	F-12

Detail Standard Co.

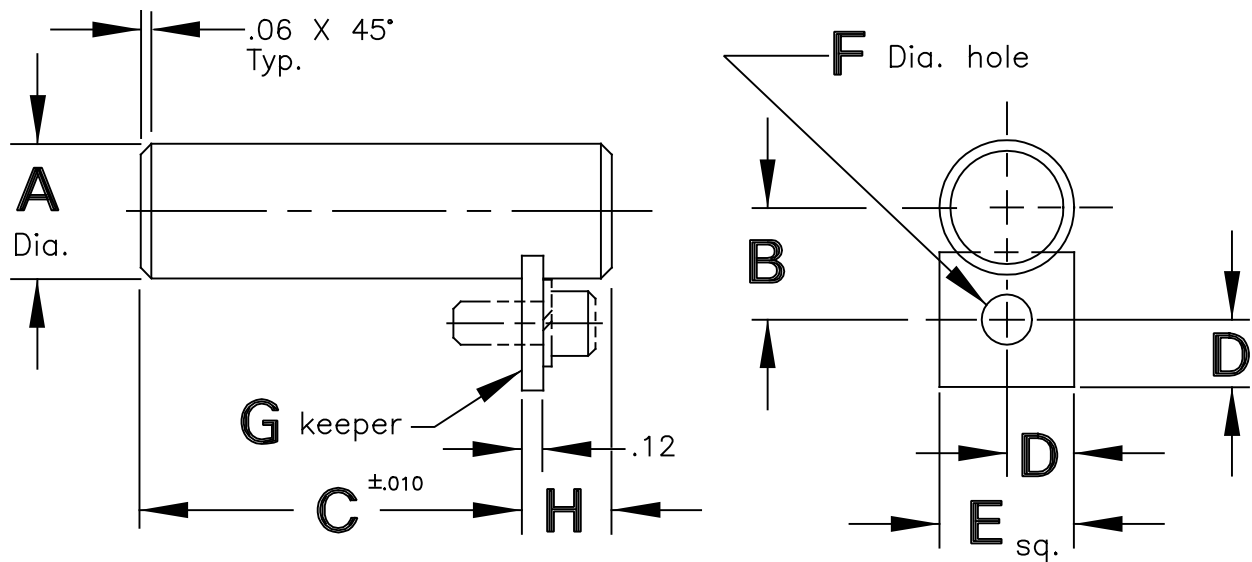
SECTION B

STRAIGHT SHAFTS

Detail Standard Co.

KEEPER PIN ASSEMBLY Type KPH, KPT, KPA & KPC

SEE PAGE E-1
FOR KEEPERS



A Dia.	A Dia. Tolerance				B	D	E	F	G	H	CAD FILE NO.
	KPH	KPA	KPT	KPC							
.250					.31	.25	.50	.22	K-1	.40	KP250
.312					.34	.25	.50	.22	K-1	.40	KP312
.375					.38	.25	.50	.22	K-1	.40	KP375
.438					.47	.38	.75	.28	K-2	.50	KP438
.500	+.000	+.000	-.0005	+.000	.50	.38	.75	.28	K-2	.50	KP500
.625	-.001	-.002	-.0015	-.002	.56	.38	.75	.28	K-2	.50	KP625
.750					.62	.38	.75	.28	K-2	.50	KP750
.875					.69	.38	.75	.28	K-2	.50	KP875
1.000					.88	.50	1.00	.34	K-3	.56	KP1000
1.250					1.00	.50	1.00	.34	K-3	.56	KP1250

Type	Material & Heat Treat
KPH	12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
KPA	Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
KPT	1045 Turned, Ground & Polished.
KPC	1018 C.R.S.

Keeper included with assembly (screw not included)

Model Number Development

Detail Standard Pin Ass'y
KPH -.500- 2.50

Keeper Pin Type _____
"A" Diameter _____
"C" Length _____

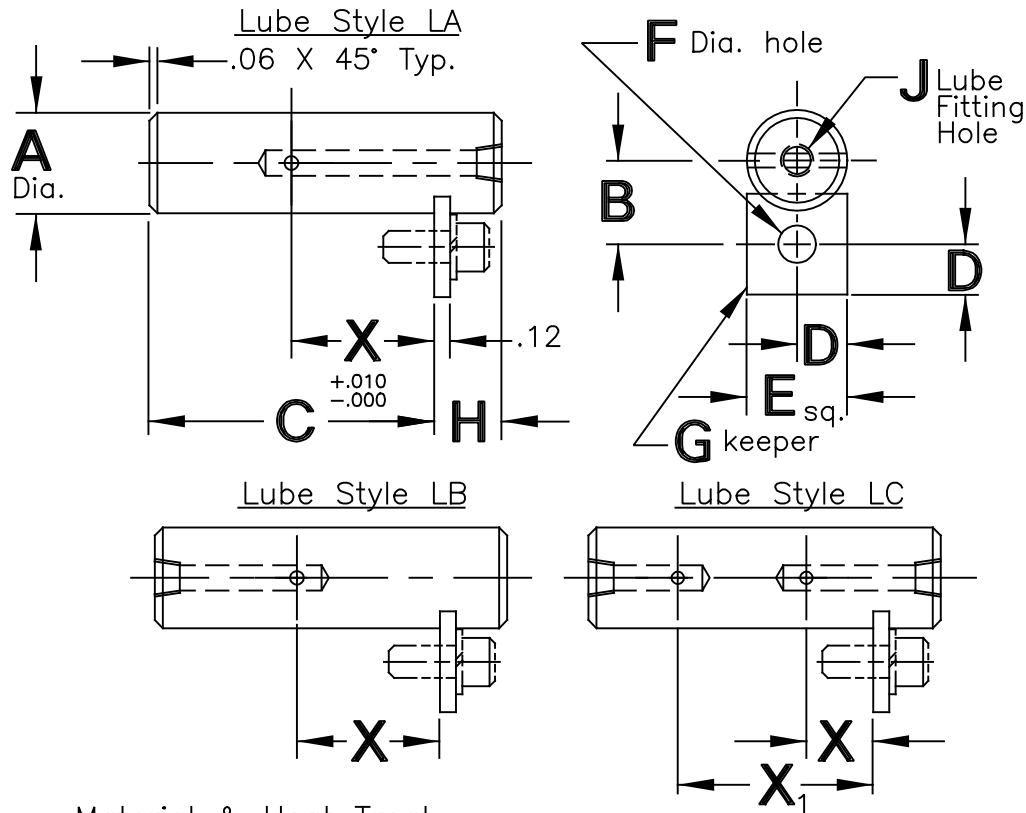
NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MKPH-12-64

Detail Standard Co.

KEEPER PIN ASSEMBLY

SEE PAGE E-1
FOR KEEPERS



Type	Material & Heat Treat
KPH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
KPA	Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
KPT	1045 Turned, Ground & Polished.
KPC	1018 C.R.S.

A Dia.	A Dia. Tolerance										J					
	KPH	KPA	KPT	KPC	B	D	E	F	G	H	Style	LA	Style	LB	Style	LC
.375	+.000 −.001	+.000 −.002	−.0005 −.0015	+.000 −.002	.38	.25	.50	.22	K−1	.40	5/32	Drive	1/4−28	ST	5/32	Drive
.438					.47	.38	.75	.28	K−2	.50	5/32	Drive	1/4−28	ST.	5/32	Drive
.500					.50	.38	.75	.28	K−2	.50	5/32	Drive	1/4−28	ST	5/32	Drive
.625					.56	.38	.75	.28	K−2	.50	1/4−28	ST	1/8−27	NPT	1/4−28	ST
.750					.62	.38	.75	.28	K−2	.50	1/8−27	NPT	1/8−27	NPT	1/8−27	NPT
.875					.69	.38	.75	.28	K−2	.50	1/8−27	NPT	1/8−27	NPT	1/8−27	NPT
1.000					.88	.50	1.00	.34	K−3	.56	1/8−27	NPT	1/8−27	NPT	1/8−27	NPT
1.250					1.00	.50	1.00	.34	K−3	.56	1/8−27	NPT	1/8−27	NPT	1/8−27	NPT

Model Number Development

Detail Standard Pin Ass'y

KPH - .750 - 4.00 - LA - 2.00 -

Type _____
 "A" Diameter _____
 "C" Length _____
 Lube Style _____
 "X" Dim. _____
 Additional "X" Dims. _____

NOTE: All pins with lube holes are "special" items

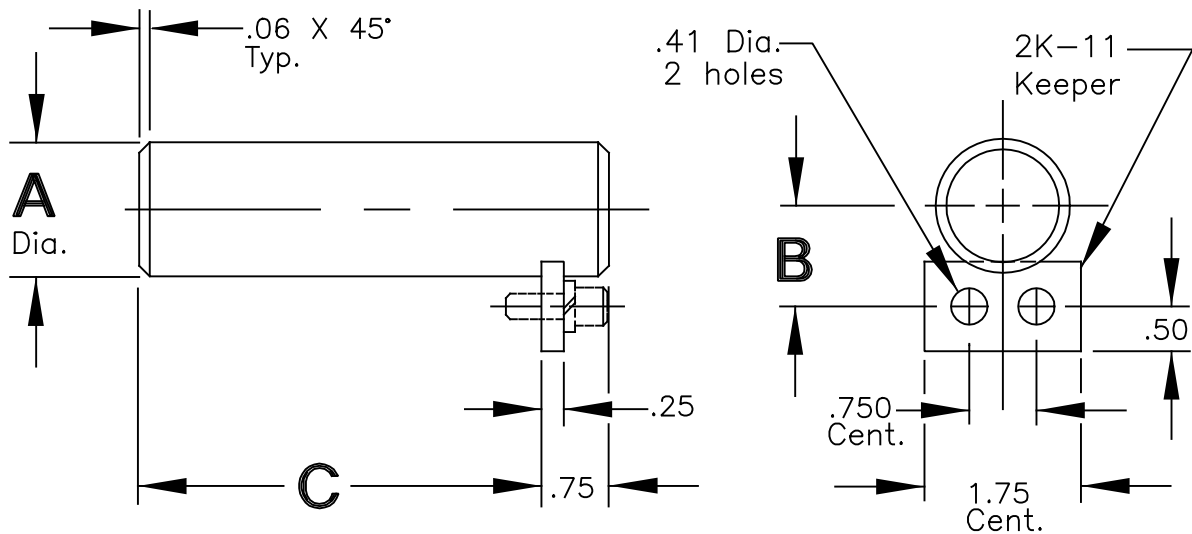
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MKPH-20-100-LA-50

Detail Standard Co.

KEEPER PIN ASSEMBLY-HEAVY DUTY
Type KPHH, KPAH, KPTH & KPCH

**SEE PAGE E-1
FOR KEEPERS**



A Dia. Tolerance					B	CAD FILE NO.
A Dia.	KPHH	KPAH	KPTH	KPCH		
1.000					.88	KPH1000
1.250					1.00	KPH1250
1.375					1.06	KPH1375
1.500					1.12	KPH1500
1.625	+.000	+.000	-.0005	+.000	1.18	KPH1625
1.750	-.001	-.002	-.0035	-.004	1.25	KPH1750
2.000					1.38	KPH2000
2.250					1.50	KPH2250
2.500					1.62	KPH2500
3.000					1.88	KPH3000

Type	Material & Heat Treat
KPHH	12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
KPAH	Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
KPTH	1045 Turned, Ground & Polished.
KPCH	1018 C.R.S.

Keeper included with assembly (screws not included)

Model Number Development

Detail Standard Pin Ass'y

KPHH-1.500-12.50

Heavy Duty Keeper Pin Type

"A" Diameter

"C" Length

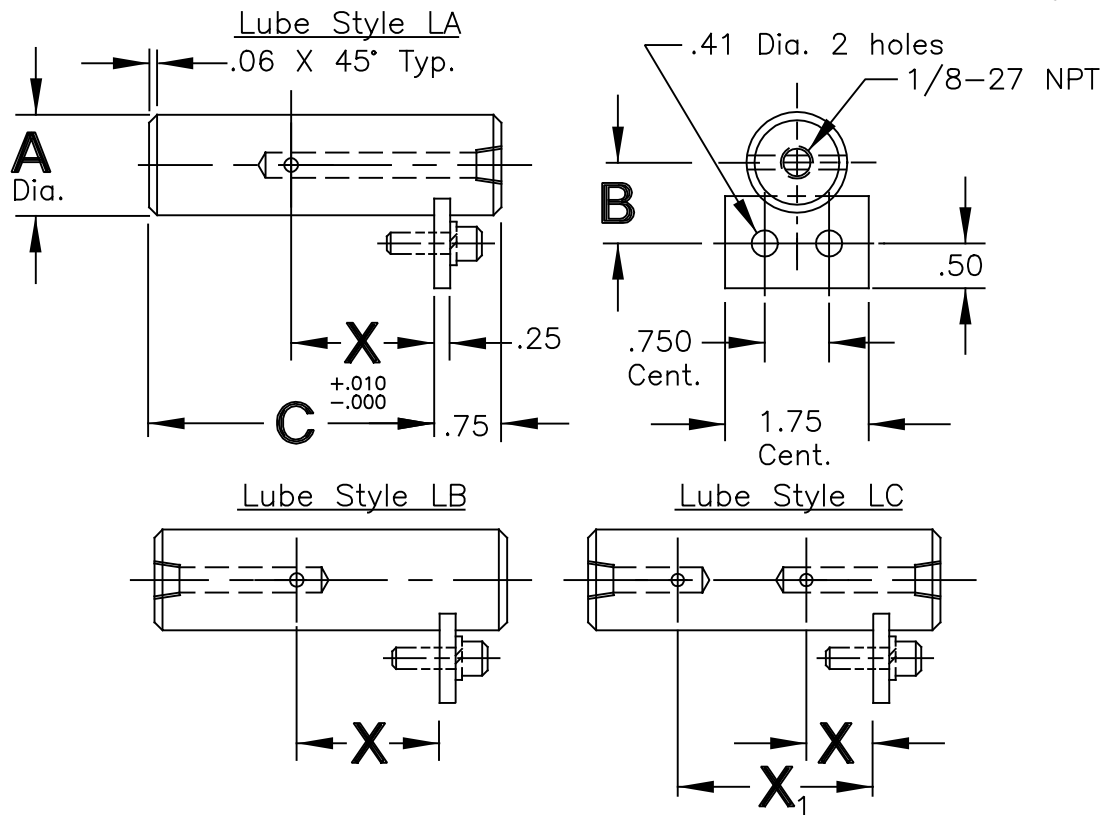
NOTE: All heavy duty pin assemblies are "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MKPHH-38-320

Detail Standard Co.

KEEPER PIN ASSEMBLY-HEAVY DUTY

SEE PAGE E-1
FOR KEEPERS



Type	Material & Heat Treat
KPHH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
KPAH	Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
KPTH	1045 Turned, Ground & Polished.
KPCH	1018 C.R.S.

A Dia.	A Dia. Tolerance				B
A Dia.	KPHH	KPAH	KPTH	KPCH	B
1.000					.875
1.250					1.000
1.375	+.000	+.000	-.0005	+.000	1.063
1.500	-.001	-.002	-.0035	-.004	1.125
1.625					1.187

A Dia.	A Dia. Tolerance				B
A Dia.	KPHH	KPAH	KPTH	KPCH	B
1.750					1.250
2.000					1.375
2.250	+.000	+.000	-.0005	+.000	1.500
2.500	-.001	-.002	-.0035	-.004	1.625
3.000					1.875

Model Number Development

Detail Standard Pin Ass'y

Type _____

"A" Diameter _____

"C" Length _____

Lube Style _____

"X" Dim. _____

Additional "X" Dims. _____

NOTE: All pins with lube holes are "special" items

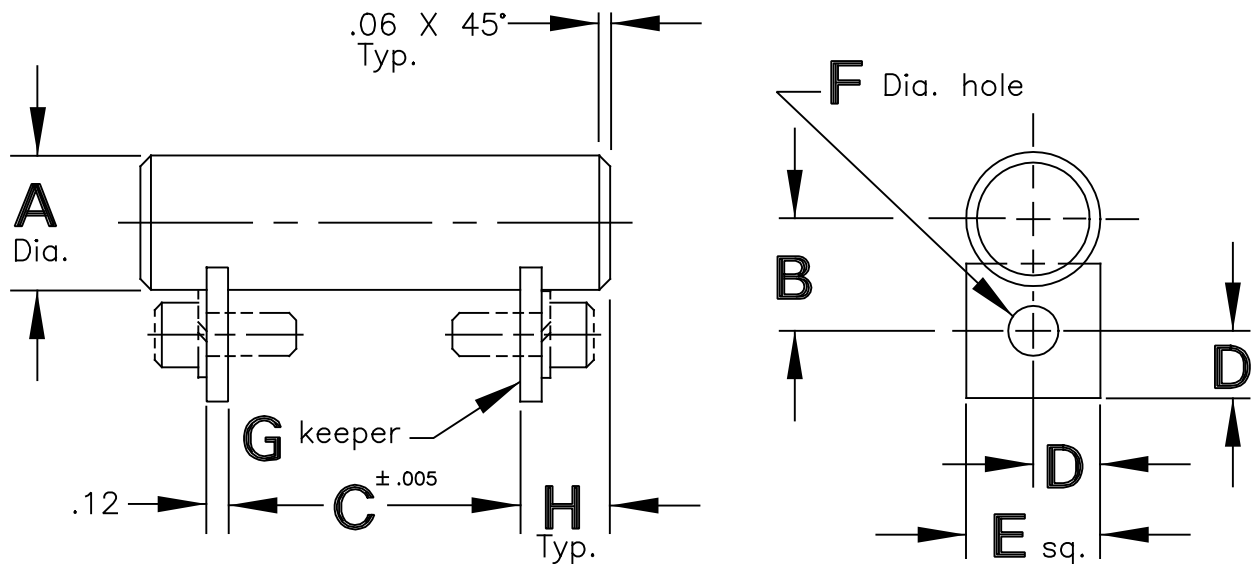
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MKPHH-44-200-LA-100

Detail Standard Co.

DOUBLE KEEPER PIN ASSEMBLY Type DKPH, DKPT, DKPA & DKPC

**SEE PAGE E-1
FOR KEEPERS**



A Dia. Tolerance												
A Dia.	DKPH	DKPA	DKPT	DKPC	B	D	E	F	G	H	CAD FILE NO.	
.250					.31	.25	.50	.22	K-1	.40	DKP250	
.312					.34	.25	.50	.22	K-1	.40	DKP312	
.375					.38	.25	.50	.22	K-1	.40	DKP375	
.438					.47	.38	.75	.28	K-2	.50	DKP438	
.500	+ .000	+ .000	- .0005	+ .000	.50	.38	.75	.28	K-2	.50	DKP500	
.625	- .001	- .002	- .0015	- .002	.56	.38	.75	.28	K-2	.50	DKP625	
.750					.62	.38	.75	.28	K-2	.50	DKP750	
.875					.69	.38	.75	.28	K-2	.50	DKP875	
1.000					.88	.50	1.00	.34	K-3	.56	DKP1000	
1.250					1.00	.50	1.00	.34	K-3	.56	DKP1250	

Type Material & Heat Treat

DKPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 DKPA Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
 DKPT 1045 Turned, Ground & Polished.
 DKPC 1018 C.R.S.

Keepers included with assembly (screws not included)

Model Number Development

Detail Standard Pin Ass'y

DKPH-.500- 2.50

Keeper Pin Type _____
 "A" Diameter _____
 "C" Length _____

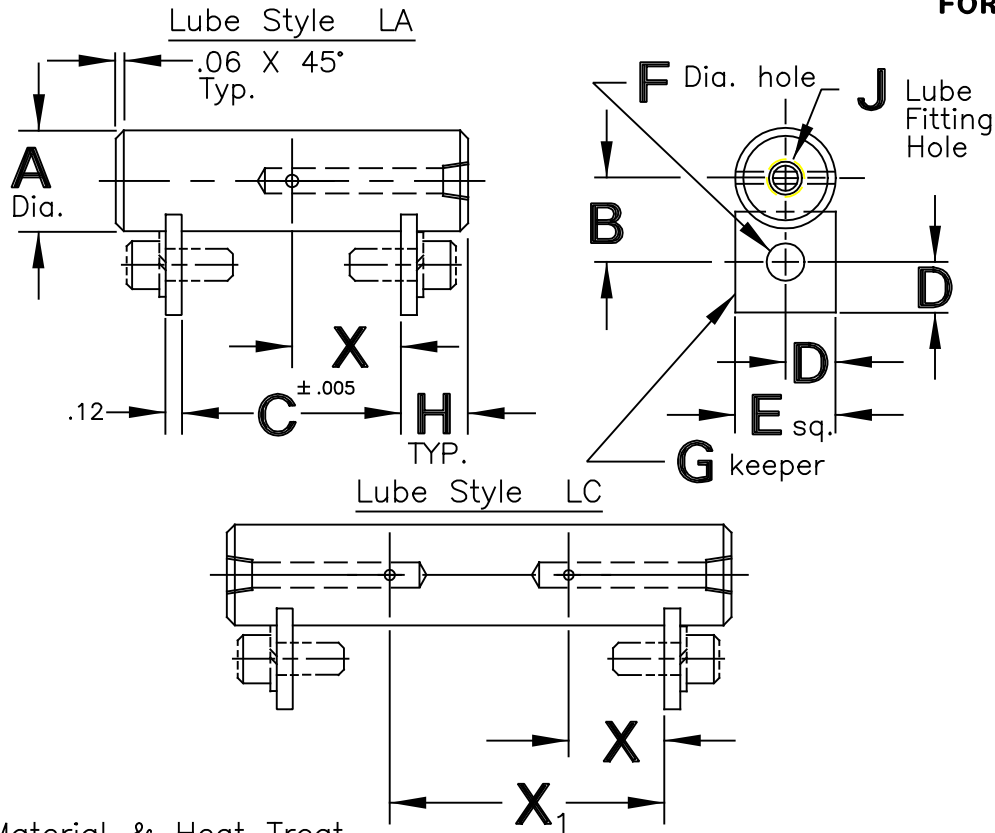
NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MDKPH-12-64

Detail Standard Co.

DOUBLE KEEPER PIN ASSEMBLY

SEE PAGE E-1
FOR KEEPERS



Type Material & Heat Treat

DKPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
 DKPA Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
 DKPT 1045 Turned, Ground & Polished.
 DKPC 1018 C.R.S.

A Dia.	A Dia. Tolerance				B	D	E	F	G	H	J		
	DKPH	DKPA	DKPT	DKPC							Style LA	Style LB	Style LC
.375					.38	.25	.50	.22	K-1	.40	5/32 Drive	1/4-28 ST	5/32 Drive
.438					.47	.38	.75	.28	K-2	.50	5/32 Drive	1/4-28 ST	5/32 Drive
.500					.50	.38	.75	.28	K-2	.50	5/32 Drive	1/4-28 ST	5/32 Drive
.625	+.000 -.001	+.000 -.002	-.0005 -.0015	+.000 -.002	.56	.38	.75	.28	K-2	.50	1/4-28 ST	1/8-27 NPT	1/4-28 ST
.750					.62	.38	.75	.28	K-2	.50	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT
.875					.69	.38	.75	.28	K-2	.50	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT
1.000					.88	.50	1.00	.34	K-3	.56	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT
1.250					1.00	.50	1.00	.34	K-3	.56	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT

Model Number Development

Detail Standard Pin Ass'y

DKPH-.750- 4.00 - LA - 2.00 -

Type _____
 "A" Diameter _____
 "C" Length _____
 Lube Style _____
 "X" Dim. _____
 Additional "X" Dims. _____

NOTE: All pins with lube holes are "special" items

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

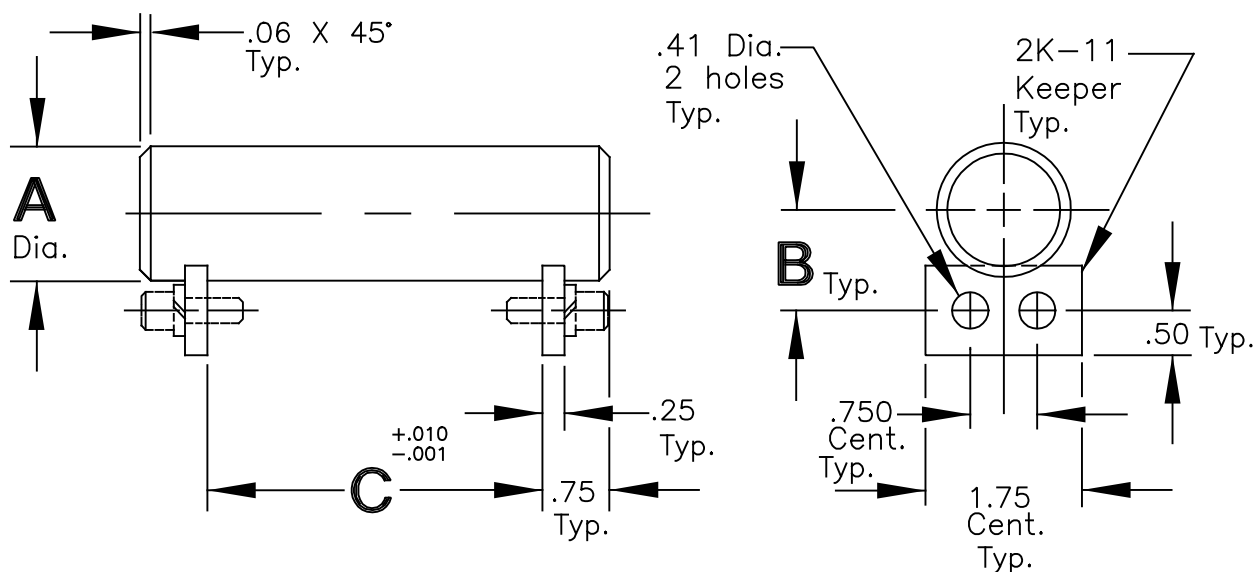
Example: MDKPH-20-100-LA-50

Detail Standard Co.

KEEPER PIN ASSEMBLY-HEAVY DUTY

Type DKPHH, DKPTH, DKPAH & DKPCH

**SEE PAGE E-1
FOR KEEPERS**



A Dia. Tolerance					B	CAD FILE NO.
A Dia.	DKPHH	DKPAH	DKPTH	DKPCH		
1.000	+.000 -.001	+.000 -.002	-.0005 -.0035	+.000 -.004	.88	DKPH1000
1.250					1.00	DKPH1250
1.375					1.06	DKPH1375
1.500					1.12	DKPH1500
1.625					1.18	DKPH1625
1.750					1.25	DKPH1750
2.000					1.38	DKPH2000
2.250					1.50	DKPH2250
2.500					1.62	DKPH2500
3.000					1.88	DKPH3000

Type	Material & Heat Treat
------	-----------------------

DKPHH	12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
DKPAH	Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
DKPTH	1045 Turned, Ground & Polished.
DKPCH	1018 C.R.S.

Keepers included with assembly (screws not included)

Model Number Development

Detail Standard Pin Ass'y
DKPHH-1.500-12.50

Heavy Duty Keeper Pin Type _____
 "A" Diameter _____
 "C" Length _____

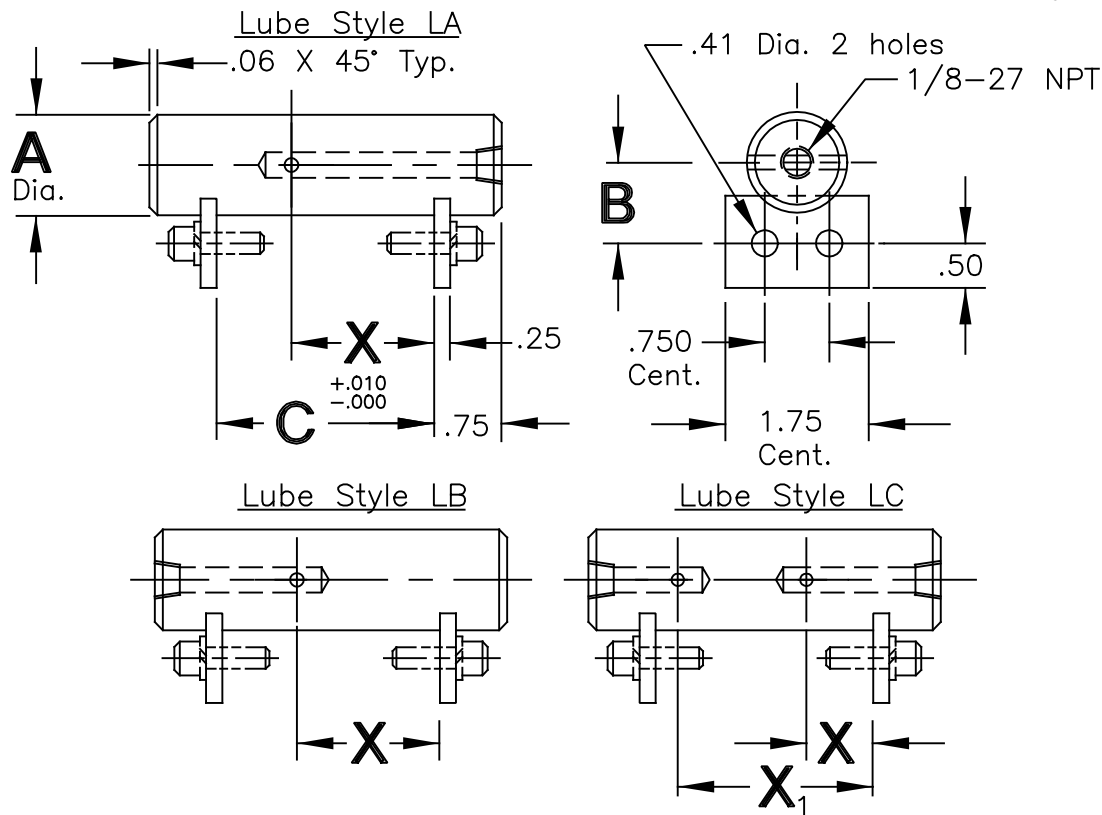
NOTE: All heavy duty pin assemblies are "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MDKPHH-38-320

Detail Standard Co.

KEEPER PIN ASSEMBLY-HEAVY DUTY

SEE PAGE E-1
FOR KEEPERS



Type	Material & Heat Treat
DKPHH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
DKPAH	Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
DKPTH	1045 Turned, Ground & Polished.
DKPCH	1018 C.R.S.

A Dia.	A Dia. Tolerance				B
A Dia.	DKPHH	DKPAH	DKPTH	DKPCH	B
1.000					.875
1.250					1.000
1.375	+.000	+.000	-.0005	+.000	1.063
1.500	-.001	-.002	-.0035	-.004	1.125
1.625					1.187

A Dia.	A Dia. Tolerance				B
A Dia.	DKPHH	DKPAH	DKPTH	DKPCH	B
1.750					1.250
2.000					1.375
2.250	+.000	+.000	-.0005	+.000	1.500
2.500	-.001	-.002	-.0035	-.004	1.625
3.000					1.875

Model Number Development

Detail Standard Pin Ass'y
DKPHH-1.750-8.00-LA-4.00-

Type _____
"A" Diameter _____
"C" Length _____
Lube Style _____
"X" Dim. _____
Additional "X₁" Dims. _____

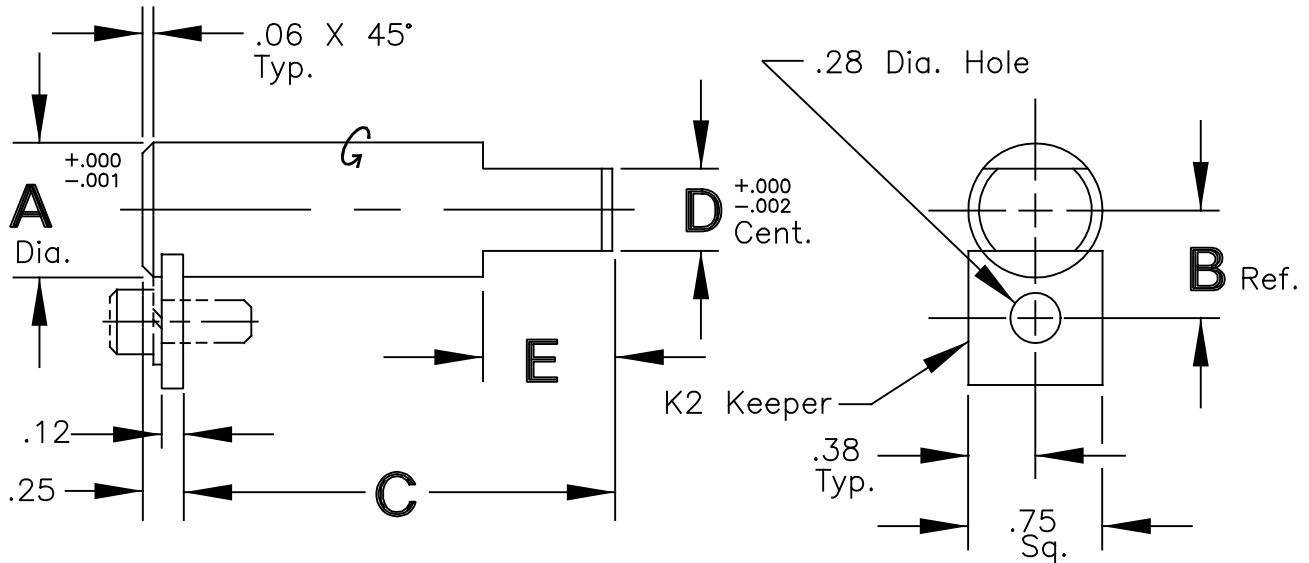
NOTE: All pins with lube holes are "special" items
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MDKPHH-44-200-LA-100

Detail Standard Co.

ANTI-ROTATE PIN ASSEMBLY

Type ARH
Style AS

**SEE PAGE E-1
FOR KEEPERS**



A Dia.	B	D	E	CAD FILE NO.
.250	.375	.187	.25	AS250
.312	.406	.249	.31	AS312
.375	.437	.249	.38	AS375
.438	.469	.312	.38	AS438
.500	.500	.374	.38	AS500
.562	.531	.406	.50	AS562
.625	.562	.499	.50	AS625
.688	.594	.499	.50	AS688
.750	.625	.499	.50	AS750
.812	.656	.499	.62	AS812
.875	.688	.624	.62	AS875
.937	.719	.624	.75	AS937
1.000	.750	.749	.75	AS1000

NOTE: Standard lengths for diameters .50" and under are from .50" to 1.50" in .25" increments, and standard lengths for diameters .62" and over are from 1.00" to 2.50" in .50" increments. Other lengths may be ordered as "special" items.

Material: 12L14 C.R.S.

Heat Treat: Carb., Hdn. & Gr., Rock."C" 55-60, .03 Min. Case, Core soft
Keeper included with assembly (screw not included)

Model Number Development

Detail Standard Anti-Rotate Pin Ass'y

ARH — .375 — .88 — .38 — AS

Anti-Rotate Pin (Hardened) —————

"A" Diameter —————

"C" Length —————

"E" Dim. —————

Style —————

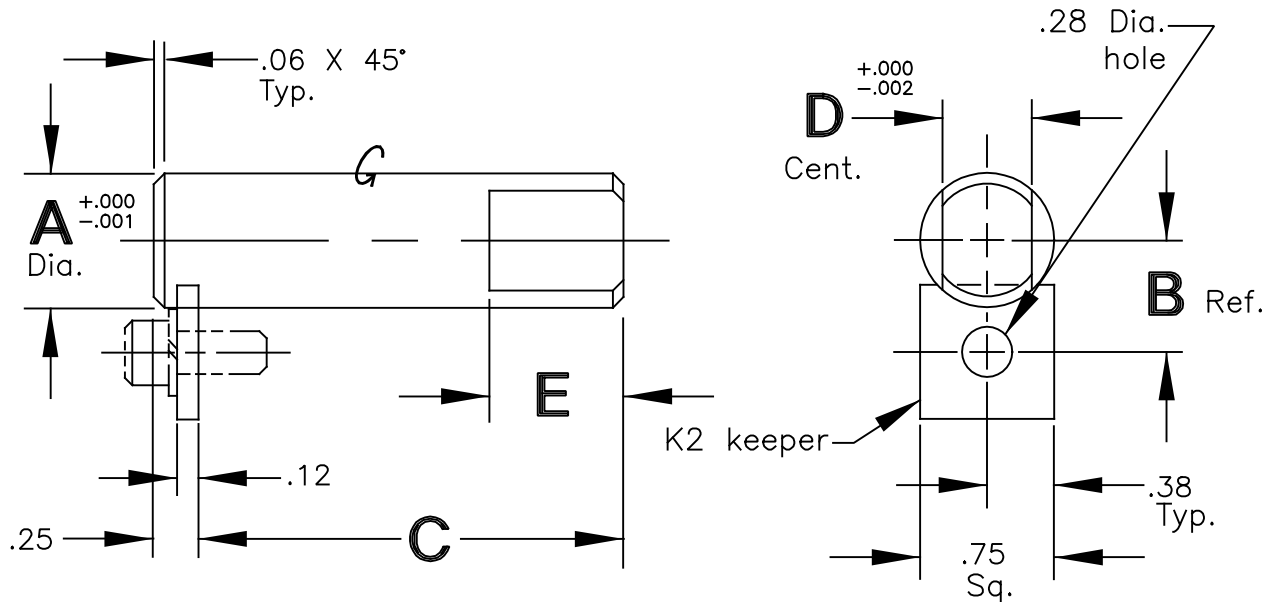
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MARH-10-22-10-AS

Detail Standard Co.

ANTI-ROTATE PIN ASSEMBLY

Type ARH
Style BS

SEE PAGE E-1
FOR KEEPERS



A Dia.	B	D	E	CAD FILE NO.
.250	.375	.187	.25	BS250
.312	.406	.249	.31	BS312
.375	.437	.249	.38	BS375
.438	.469	.312	.38	BS438
.500	.500	.374	.38	BS500
.562	.531	.406	.50	BS562
.625	.562	.499	.50	BS625
.688	.594	.499	.50	BS688
.750	.625	.499	.50	BS750
.812	.656	.499	.62	BS812
.875	.688	.624	.62	BS875
.937	.719	.624	.75	BS937
1.000	.750	.749	.75	BS1000

NOTE: Standard lengths for diameters .50" and under are from .50" to 1.50" in .25" increments, and standard lengths for diameters .62" and over are from 1.00" to 2.50" in .50" increments. Other lengths may be ordered as "special" items.

Material: 12L14 C.R.S.

Heat Treat: Carb., Hdn. & Gr., Rock."C" 55-60, .03 Min. Case, Core soft
Keeper included with assembly (screw not included)

Model Number Development

Detail Standard Anti-Rotate Pin Ass'y

ARH-.375-.88-.38-BS

Anti-Rotate Pin (Hardened) _____
 "A" Diameter _____
 "C" Length _____
 "E" Dim. _____
 Style _____

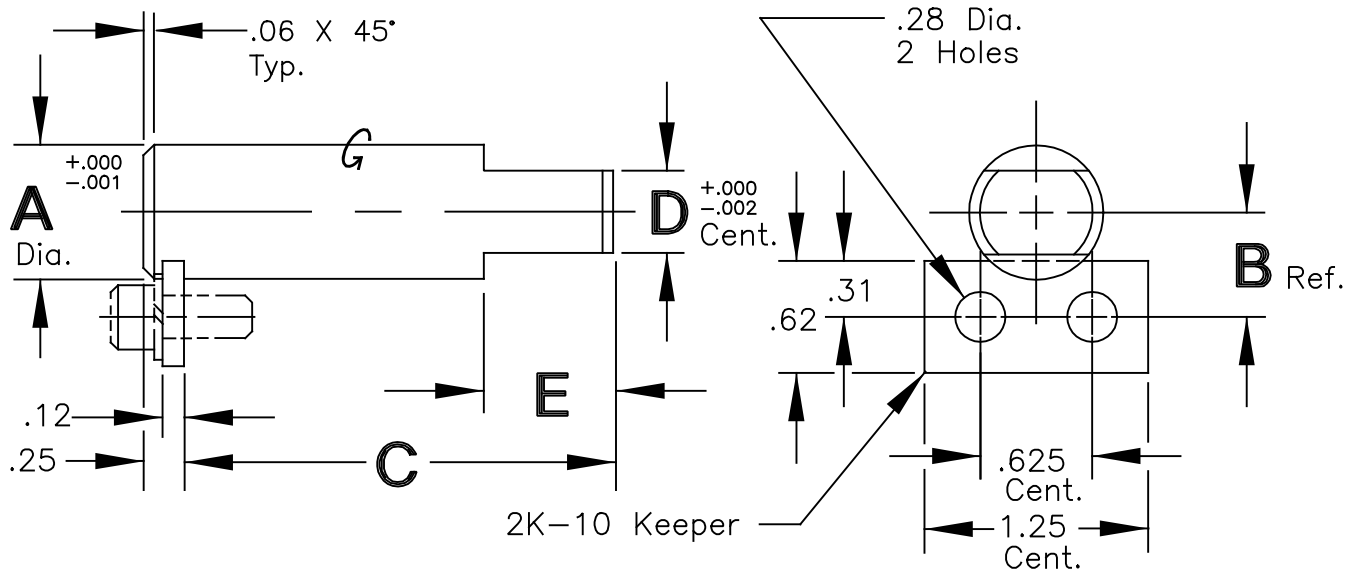
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MARH-10-22-10-BS

Detail Standard Co.

ANTI-ROTATE PIN ASSEMBLY

Type ARH
Style AD

**SEE PAGE E-1
FOR KEEPERS**



A Dia.	B	D	E	CAD FILE NO.
.250	.375	.187	.25	AD250
.312	.406	.249	.31	AD312
.375	.437	.249	.38	AD375
.438	.469	.312	.38	AD438
.500	.500	.374	.38	AD500
.562	.531	.406	.50	AD562
.625	.562	.499	.50	AD625
.688	.594	.499	.50	AD688
.750	.625	.499	.50	AD750
.812	.656	.499	.62	AD812
.875	.688	.624	.62	AD875
.937	.719	.624	.75	AD937
1.000	.750	.749	.75	AD1000

NOTE: Standard lengths for diameters .50" and under are from .50" to 1.50" in .25" increments, and standard lengths for diameters .62" and over are from 1.00" to 2.50" in .50" increments. Other lengths may be ordered as "special" items.

Material: 12L14 C.R.S.

Heat Treat: Carb., Hdn. & Gr., Rock."C" 55-60, .03 Min. Case, Core soft
Keeper included with assembly (screw not included)

Model Number Development

Detail Standard Anti-Rotate Pin Ass'y

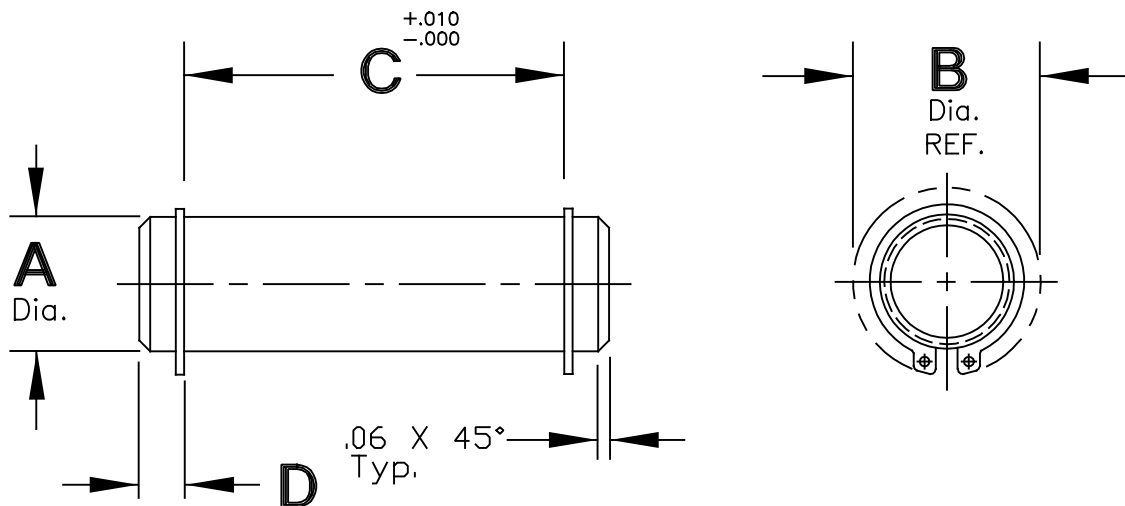
Anti-Rotate Pin (Hardened) ————— ARH — .375 — .88 — .38 — AD
 "A" Diameter —————
 "C" Length —————
 "E" Dim. —————
 Style —————

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MARH-10-22-10-AD

Detail Standard Co.

DOUBLE SNAP RING PIN ASSEMBLY

Type DSPH, DSPT, DSPA & DSPC



A Dia.	A Dia. Tolerance				B	D	CAD FILE NO.
	DSPH	DSPA	DSPT	DSPC			
.250					.43	.12	DSP250
.312					.52	.16	DSP312
.375					.59	.18	DSP375
.438					.64	.18	DSP438
.500	+.000	+.000	-.0005	+.000	.74	.25	DSP500
.625	-.001	-.002	-.0015	-.002	.87	.25	DSP625
.750					1.05	.25	DSP750
.875					1.16	.25	DSP875
1.000					1.35	.25	DSP1000
1.250					1.62	.31	DSP1250

Type Material & Heat Treat

DSPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 DSPA Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
 DSPT 1045 Turned, Ground & Polished.
 DSPC 1018 C.R.S.

Snap rings included with assembly

Model Number Development

Detail Standard Pin Ass'y
 DSPH-.500- 2.50

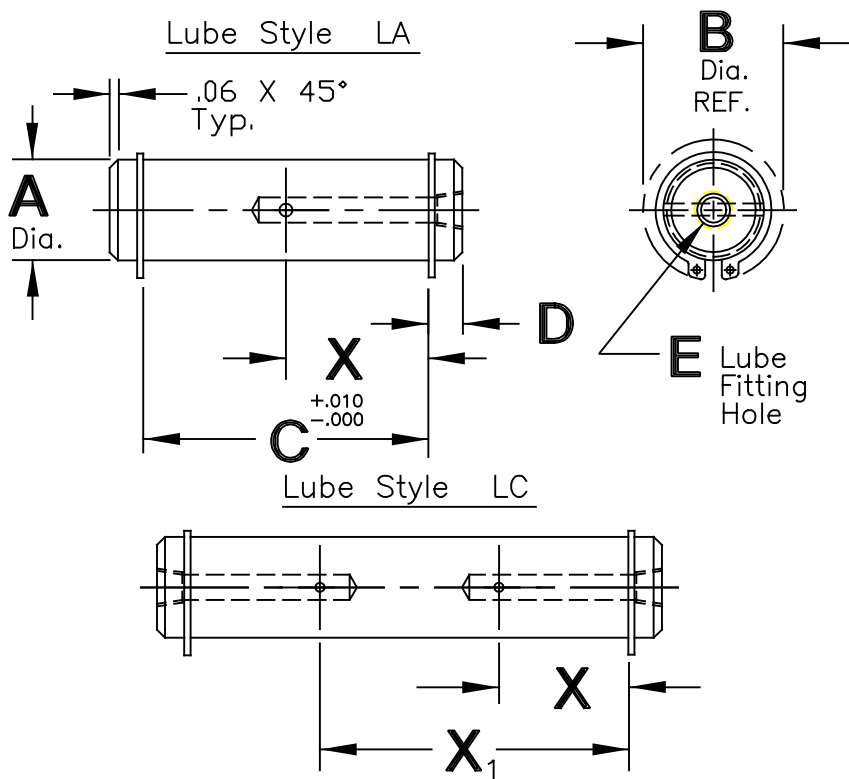
Double Snap Ring Pin _____
 "A" Diameter _____
 "C" Length _____

NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MDSPH-12-64

Detail Standard Co.

DOUBLE SNAP RING PIN ASSEMBLY



Type	Material & Heat Treat
DSPH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
DSPA	Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
DSPT	1045 Turned, Ground & Polished.
DSPC	1018 C.R.S.

A Dia.	A Dia. Tolerance				B	D	E
	DSPH	DSPA	DSPT	DSPC			
.375					.59	.18	1/4-28 ST
.438					.64	.18	1/4-28 ST
.500					.74	.25	1/4-28 ST
.625	+.000 -.001	+.000 -.002	-.0005 -.0015	+.000 -.002	.87	.25	1/8-27 NPT
.750					1.05	.25	1/8-27 NPT
.875					1.16	.25	1/8-27 NPT
1.000					1.35	.25	1/8-27 NPT
1.250					1.62	.31	1/8-27 NPT

Model Number Development

Detail Standard Pin Ass'y

DSPH-.750- 4.00 - LA - 2.00 -

Type _____

"A" Diameter _____

"C" Length _____

Lube Style _____

"X" Dim. _____

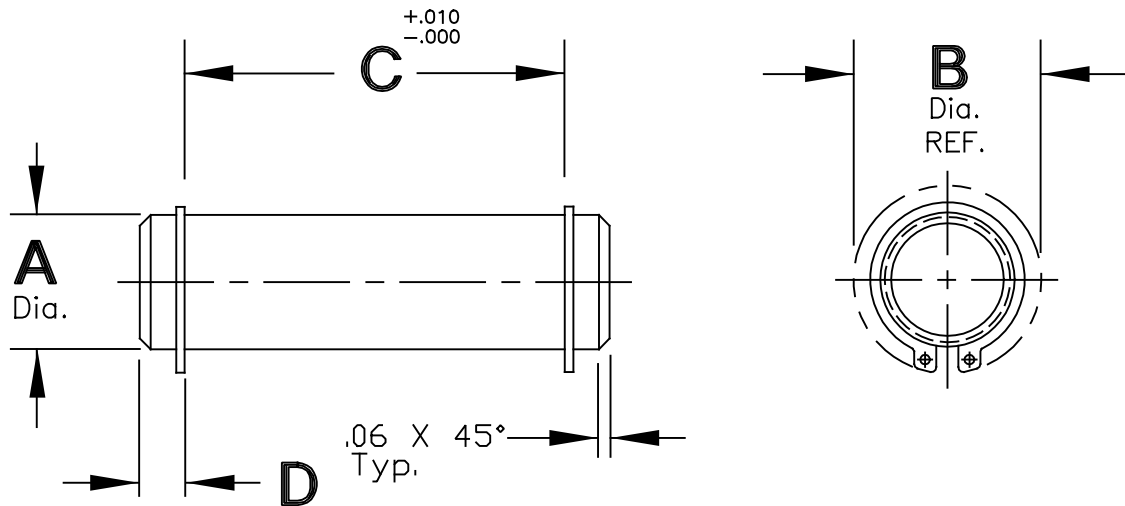
Additional "X₁" Dims. _____

NOTE: All pins with lube holes are "special" items
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MDSPH-20-200-LA-100

Detail Standard Co.

DOUBLE SNAP RING PIN ASSEMBLY - HEAVY DUTY

Type DSPHH, DSPTH, DSPAH & DSPCH



A Dia.	A Dia. Tolerance				B	D	CAD FILE NO.
	DSPHH	DSPAH	DSPTH	DSPCH			
1.375					1.72	.31	DSPH1375
1.500					1.90	.31	DSPH1500
1.625	+.000	+.000	-.0005	+.000	2.08	.31	DSPH1625
1.750					2.21	.31	DSPH1750
2.000	-.001	-.002	-.0035	-.004	2.44	.38	DSPH2000
2.250					2.74	.38	DSPH2250
2.500					2.98	.38	DSPH2500
3.000					3.53	.38	DSPH3000

Type Material & Heat Treat

DSPHH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.

DSPAH Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.

DSPTH 1045 Turned, Ground & Polished.

DSPCH 1018 C.R.S.

Snap rings included with assembly

Model Number Development

Detail Standard Pin Ass'y
DSPHH-1.500-10.00

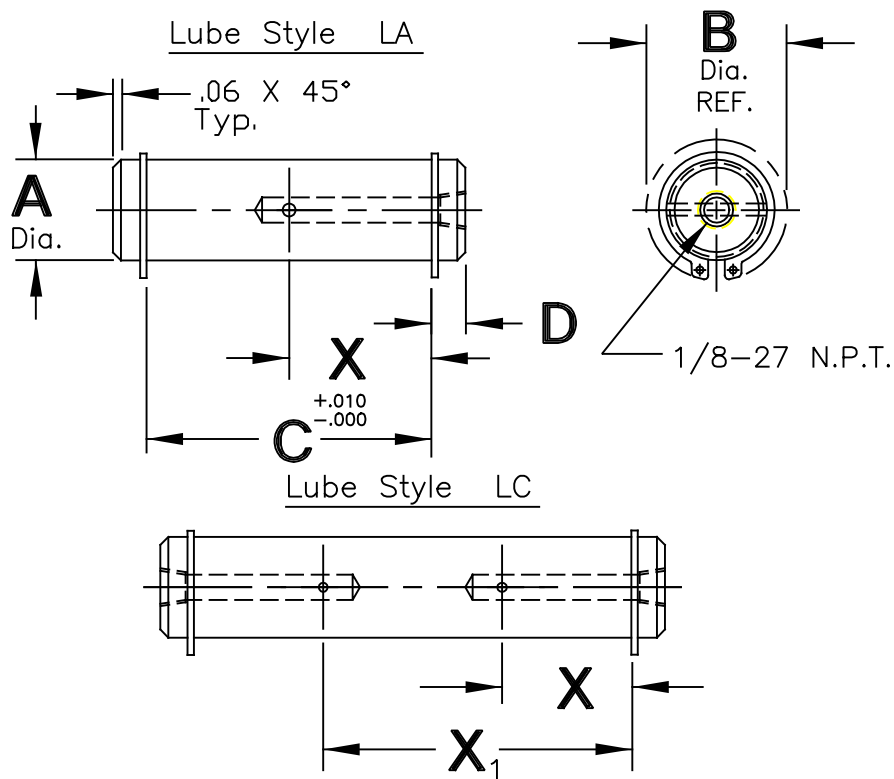
Heavy Duty Double Snap Ring Pin _____
"A" Diameter _____
"C" Length _____

NOTE: All heavy duty pin assemblies are "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MDSPHH-38-250

Detail Standard Co.

DOUBLE SNAP RING PIN ASSEMBLY - HEAVY DUTY



Type	Material & Heat Treat
DSPHH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
DSPA	Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
DSPTH	1045 Turned, Ground & Polished.
DSPCH	1018 C.R.S.

A Dia.	A Dia. Tolerance				B	D
	DSPHH	DSPA	DSPTH	DSPCH		
1.375					1.72	.31
1.500	+.000	+.000	-.0005	+.000	1.90	.31
1.625	-.001	-.002	-.0035	-.004	2.08	.31
1.750					2.21	.31

A Dia.	A Dia. Tolerance				B	D
	DSPHH	DSPA	DSPTH	DSPCH		
2.000					2.44	.38
2.250	+.000	+.000	-.0005	+.000	2.74	.38
2.500	-.001	-.002	-.0035	-.004	2.98	.38
3.000					3.53	.38

Model Number Development

Detail Standard Pin Ass'y

Type _____
 "A" Diameter _____
 "C" Length _____
 Lube Style _____
 "X" Dim. _____
 Additional "X" Dims. _____

NOTE: All pins with lube holes are "special" items

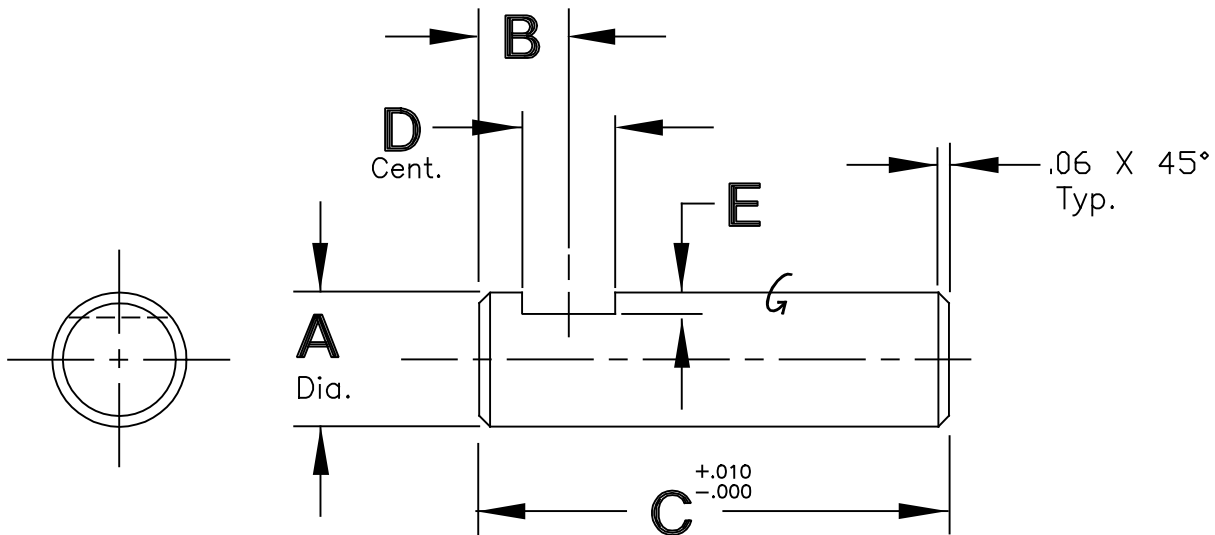
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MDSPHH-44-200-LA-100

Detail Standard Co.

SINGLE FLAT PIN

Type SFH, SFT, SFA & SFC



A Dia.	A Dia. Tolerance				B	D	E	CAD FILE NO.
	SFH	SFA	SFT	SFC				
.250					.25	.28	.06	SF250
.312					.25	.28	.06	SF312
.375					.31	.40	.06	SF375
.438					.31	.40	.06	SF438
.500	+.000	+.000	-.0005	+.000	.44	.40	.09	SF500
.625	-.001	-.002	-.0015	-.002	.44	.40	.09	SF625
.750					.50	.53	.12	SF750
.875					.50	.53	.12	SF875
1.000					.50	.53	.12	SF1000
1.250					.50	.53	.12	SF1250

Type Material & Heat Treat

SFH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 SFA Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
 SFT 1045 Turned, Ground & Polished.
 SFC 1018 C.R.S.

Model Number Development

Detail Standard Pin Ass'y
 SFH -.500- 2.50 -.62

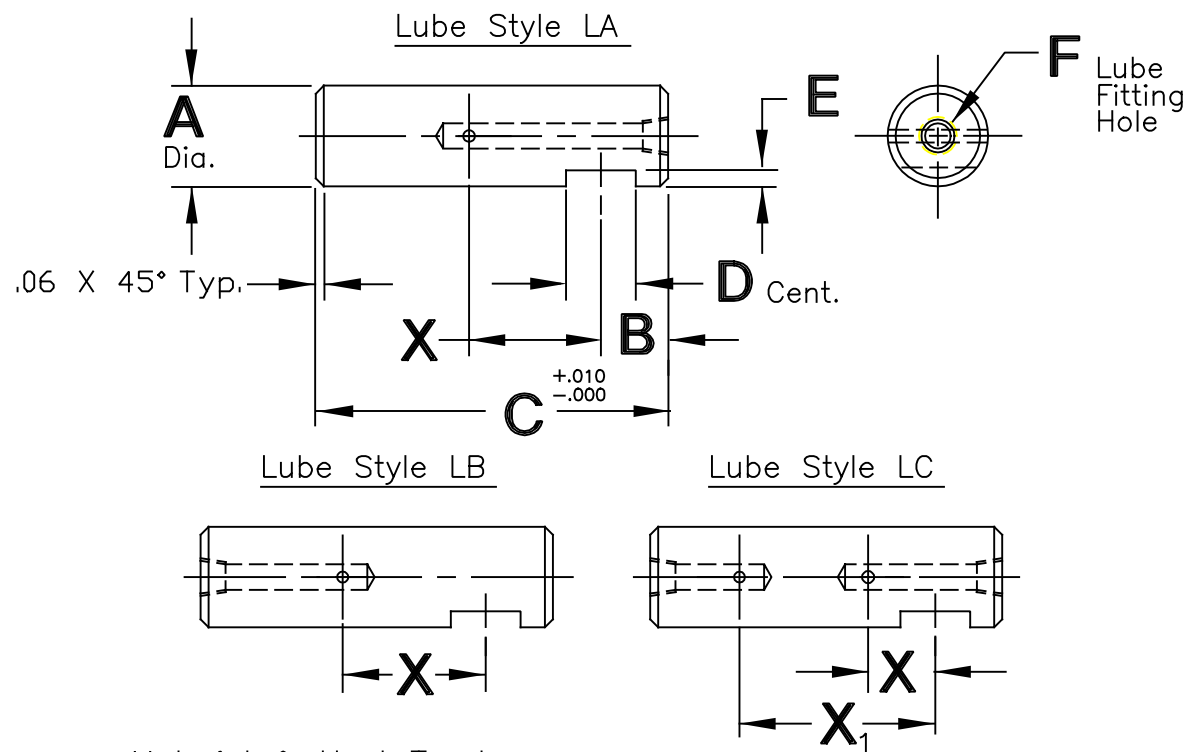
Single Flat Pin _____
 "A" Diameter _____
 "C" Length _____
 "B" Dimension _____

NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MSFH-12-64-18

Detail Standard Co.

SINGLE FLAT PIN



Type	Material & Heat Treat
SFH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
SFA	Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
SFT	1045 Turned, Ground & Polished.
SFC	1018 C.R.S.

A Dia.	A Dia. Tolerance				B	D	E	F					
	SFH	SFA	SFT	SFC				Style	LA	Style	LB	Style	LC
.375					.31	.40	.06	5/32	Drive	1/4-28	ST	5/32	Drive
.438					.31	.40	.06	5/32	Drive	1/4-28	ST	5/32	Drive
.500					.44	.40	.09	5/32	Drive	1/4-28	ST	5/32	Drive
.625	+ .000	+ .000	- .0005	+ .000	.44	.40	.09	1/4-28	ST	1/8-27	NPT	1/4-28	ST
.750	- .001	- .002	- .0015	- .002	.50	.53	.12	1/8-27	NPT	1/8-27	NPT	1/8-27	NPT
.875					.50	.53	.12	1/8-27	NPT	1/8-27	NPT	1/8-27	NPT
1.000					.50	.53	.12	1/8-27	NPT	1/8-27	NPT	1/8-27	NPT
1.250					.50	.53	.12	1/8-27	NPT	1/8-27	NPT	1/8-27	NPT

Model Number Development

Detail Standard Pin Ass'y

SFH - .750 - 4.00 - .50 - LA - 2.00 -

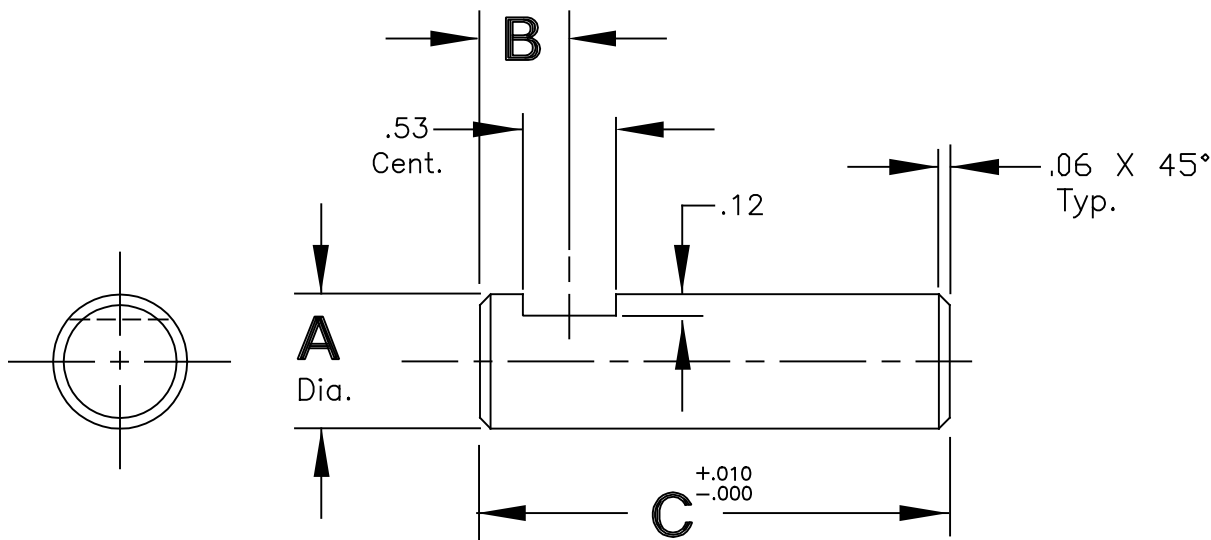
Type _____
"A" Diameter _____
"C" Length _____
"B" Dimension _____
Lube Style _____
"X" Dim. _____
Additional "X₁" Dims. _____

NOTE: All pins with lube holes are "special" items
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSFH-20-100-12-LA-50

Detail Standard Co.

SINGLE FLAT PIN - HEAVY DUTY

Type SFHH, SFTH, SFAH & SFCH



A Dia. Tolerance					CAD FILE NO.
A Dia.	SFHH	SFAH	SFTH	SFCH	
1.375					SFHH1375
1.500					SFHH1500
1.625					SFHH1625
1.750	+.000	+.000	-.0005	+.000	SFHH1750
2.000	-.001	-.002	-.0035	-.004	SFHH2000
2.250					SFHH2250
2.500					SFHH2500
3.000					SFHH3000

Type	Material & Heat Treat
SFHH	12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
SFAH	Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
SFTH	1045 Turned, Ground & Polished.
SFCH	1018 C.R.S.

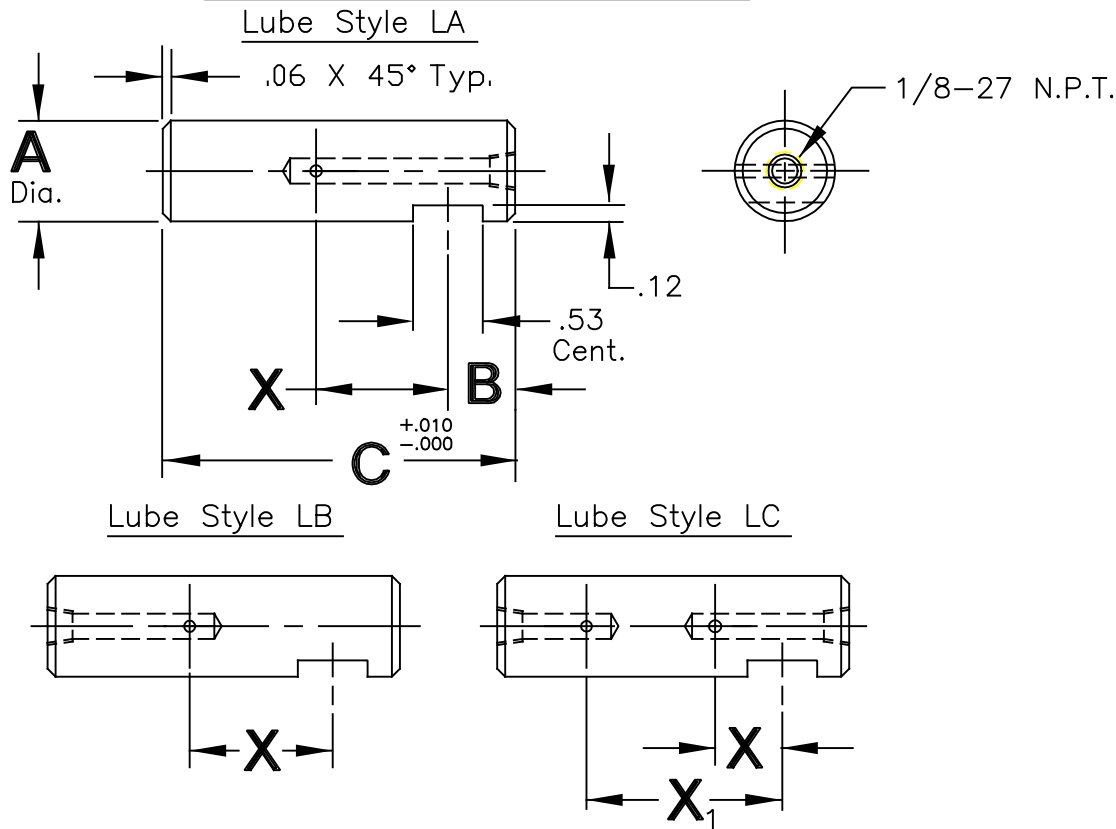
Model Number Development	Detail Standard Pin Ass'y
Single Flat Pin Type _____	SFHH-1.500-10.00-.62
"A" Diameter _____	
"C" Length _____	
"B" Dimension _____	

NOTE: All heavy duty pin assemblies are "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSFHH-38-250-18

Detail Standard Co.

SINGLE FLAT PIN - HEAVY DUTY



Type	Material & Heat Treat
SFHH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
SFAH	Turned, Ground & Polished, Rock "C" 28-32 Uniform Throughout
SFTH	1045 Turned, Ground & Polished.
SFCH	1018 C.R.S.

A Dia.	A Dia. Tolerance			
	SFHH	SFAH	SFTH	SFCH
1.375				
1.500	+.000	+.000	-.0005	+.000
1.625	-.001	-.002	-.0035	-.004
1.750				

A Dia.	A Dia. Tolerance			
	SFHH	SFAH	SFTH	SFCH
2.000				
2.250	+.000	+.000	-.0005	+.000
2.500	-.001	-.002	-.0035	-.004
3.000				

Model Number Development

Detail Standard Pin Ass'y

Type _____

"A" Diameter _____

"C" Length _____

"B" Dimension _____

Lube Style _____

"X" Dim. _____

Additional "X₁" Dims. _____

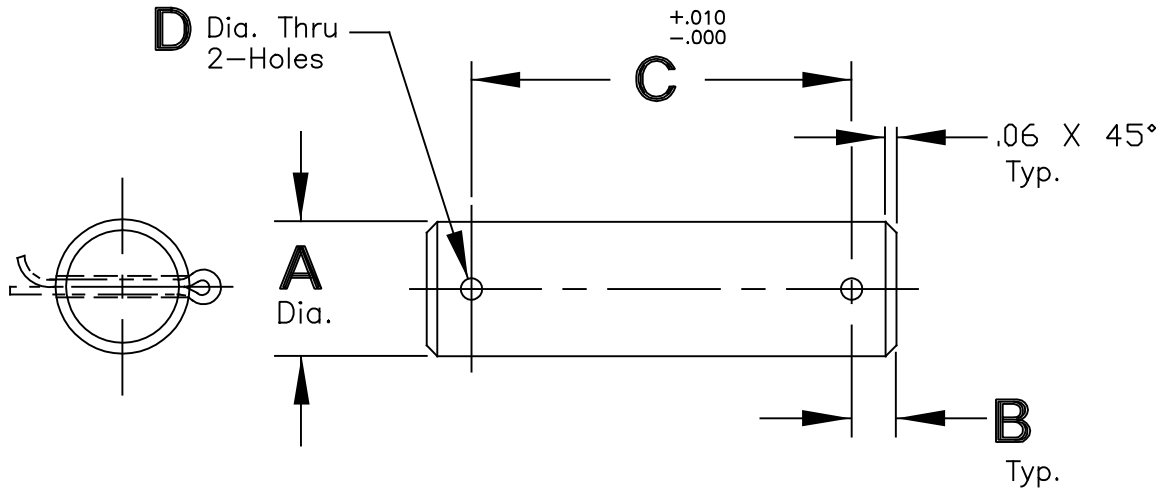
SFHH-1.750-8.00-.75-LA-4.00-

NOTE: All pins with lube holes are "special" items
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSFHH-44-200-20-LA-100

Detail Standard Co.

COTTER PIN SHAFT ASSEMBLY

Type CPH, CPT, CPA & CPC



A Dia.	A Dia. Tolerance				B	D	CAD FILE NO.
	CPH	CPA	CPT	CPC			
.250					.18	.09	CP250
.312					.18	.12	CP312
.375					.18	.12	CP375
.438					.25	.12	CP438
.500	+ .000	+ .000	- .0005	+ .000	.25	.12	CP500
.625	- .001	- .002	- .0015	- .002	.25	.12	CP625
.750					.25	.12	CP750
.875					.25	.12	CP875
1.000					.38	.12	CP1000
1.250					.38	.18	CP1250

Type Material & Heat Treat

CPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 CPA Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
 CPT 1045 Turned, Ground & Polished.
 CPC 1018 C.R.S.

Cotter pins included with assembly.

Model Number Development

Detail Standard Pin Ass'y
 CPH -.500- 2.50

Cotter Pin Type _____
 "A" Diameter _____
 "C" Length _____

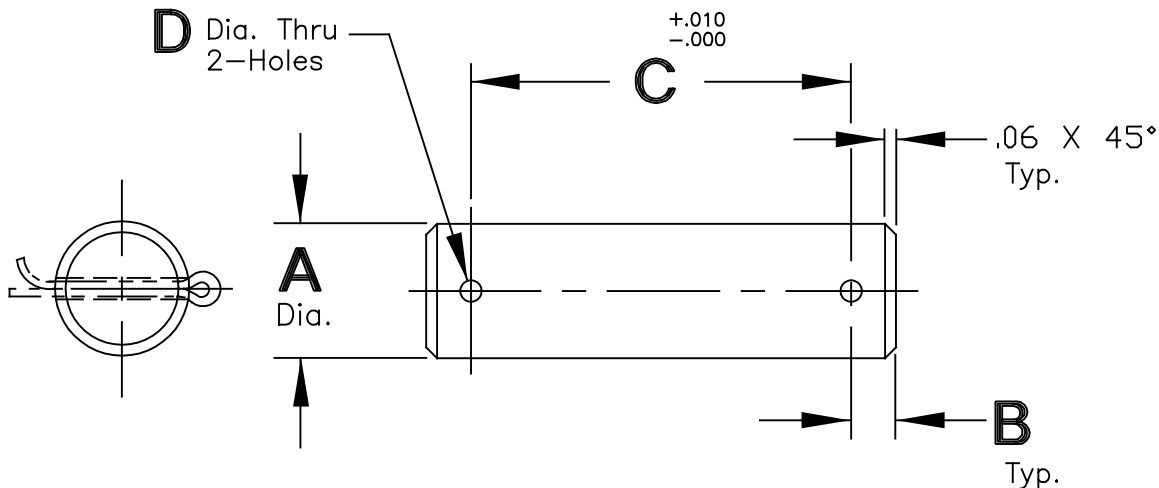
NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MCPH-12-64

Detail Standard Co.

COTTER PIN SHAFT ASSEMBLY-HEAVY DUTY

Type CPHH, CPTH, CPAH & CPCH



A Dia.	A Dia. Tolerance				B	D	CAD FILE NO.
	CPHH	CPAH	CPTH	CPCH			
1.375					.38	.18	CPHH1375
1.500					.38	.18	CPHH1500
1.625					.38	.18	CPHH1625
1.750	+.000	+.000	-.0005	+.000	.38	.18	CPHH1750
2.000	-.001	-.002	-.0035	-.004	.50	.25	CPHH2000
2.250					.50	.25	CPHH2250
2.500					.50	.25	CPHH2500
3.000					.50	.25	CPHH3000

Type Material & Heat Treat

CPHH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
CPAH Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
CPTH 1045 Turned, Ground & Polished.
CPCH 1018 C.R.S.

Cotter pins included with assembly.

Model Number Development

Detail Standard Pin Ass'y
CPHH-1.500-10.00

Cotter Pin Type _____
"A" Diameter _____
"C" Length _____

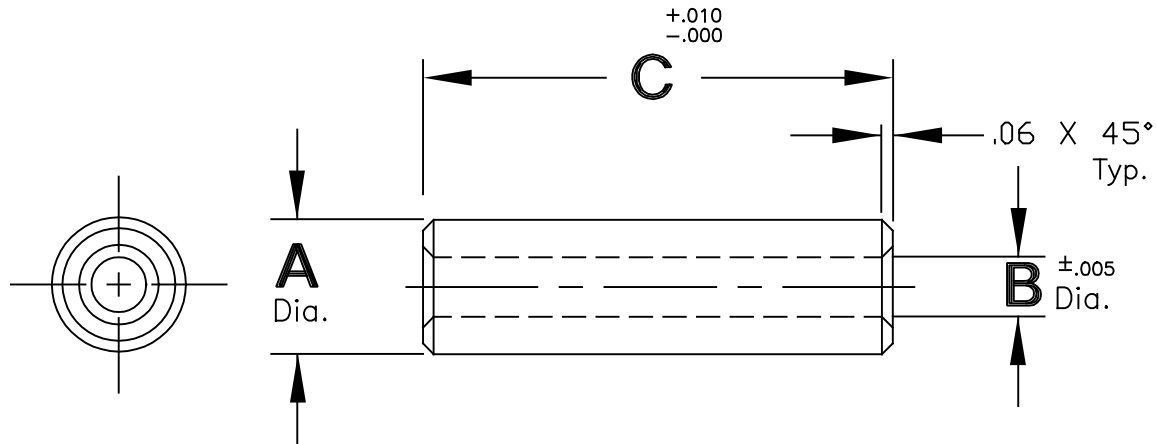
NOTE: All heavy duty pins assemblies are "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MCPHH-38-250

Detail Standard Co.

HOLLOW PIN

Type HPH, HPT, HPA & HPC



A Dia.	A Dia. Tolerance				B Dia.	CAD FILE NO.
	HPH	HPA	HPT	HPC		
.438					.280	HP438
.500					.280	HP500
.625	+ .000	+ .000	- .0005	+ .000	.280	HP625
.750	- .001	- .002	- .0015	- .002	.406	HP750
.875					.406	HP875
1.000					.530	HP1000
1.250					.688	HP1250

Type

Material & Heat Treat

HPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 HPA Turned, Ground & Polished, Rock. "C" 28-32 Uniform Throughout.
 HPT 1045 Turned, Ground & Polished.
 HPC 1018 C.R.S.

Model Number Development

Detail Standard Pin Ass'y
 HPH-.750-.403-2.50

Hollow Pin Type _____
 "A" Diameter _____
 "B" Diameter _____
 "C" Length _____

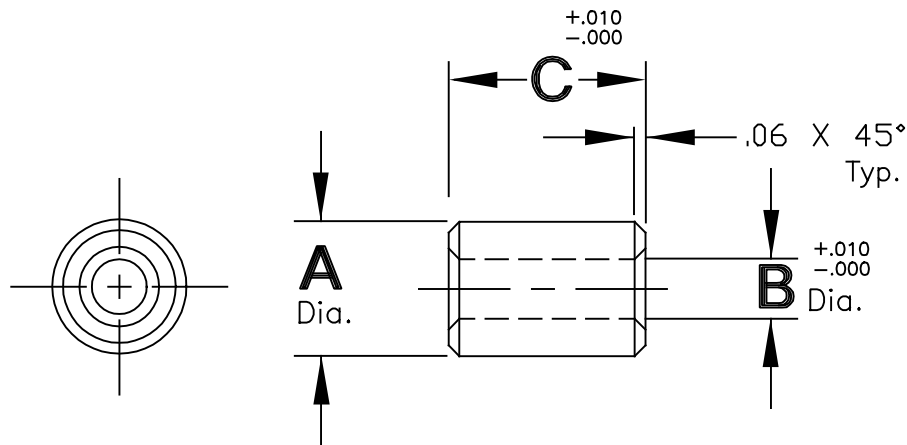
NOTE: Standard lengths for 'A' diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for 'A' diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MHPH-20-10-64

Detail Standard Co.

HOLLOW DOWEL

Type HDH



A Dia. (nom.)	A Dia. (actual)	B Dia.	CAD FILE NO.
.44	.4378 / .4376	.218	HD438
.50	.5003 / .5001	.280	HD500
.56	.5628 / .5626	.280	HD562
.62	.6253 / .6251	.280	HD625
.75	.7503 / .7501	.343	HD750
.88	.8753 / .8751	.406	HD875
1.00	1.0003 / 1.0001	.406	HD1000

Type HDH Material & Heat Treat Drill Rod., Carb., Hdn. & Gr., Rock. "C" 55-60, .02 Min. Case.

Model Number Development Detail Standard Hollow Dowel
HDH-.750-.343-1.00
Hollow Dowel _____
"A" Dia. (Nom.) _____
"B" Diameter _____
"C" Length _____

NOTE: Standard lengths for all 'A' diameters is 1.5 x 'A' dia.
Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MHDH-20-10-25

Detail Standard Co.

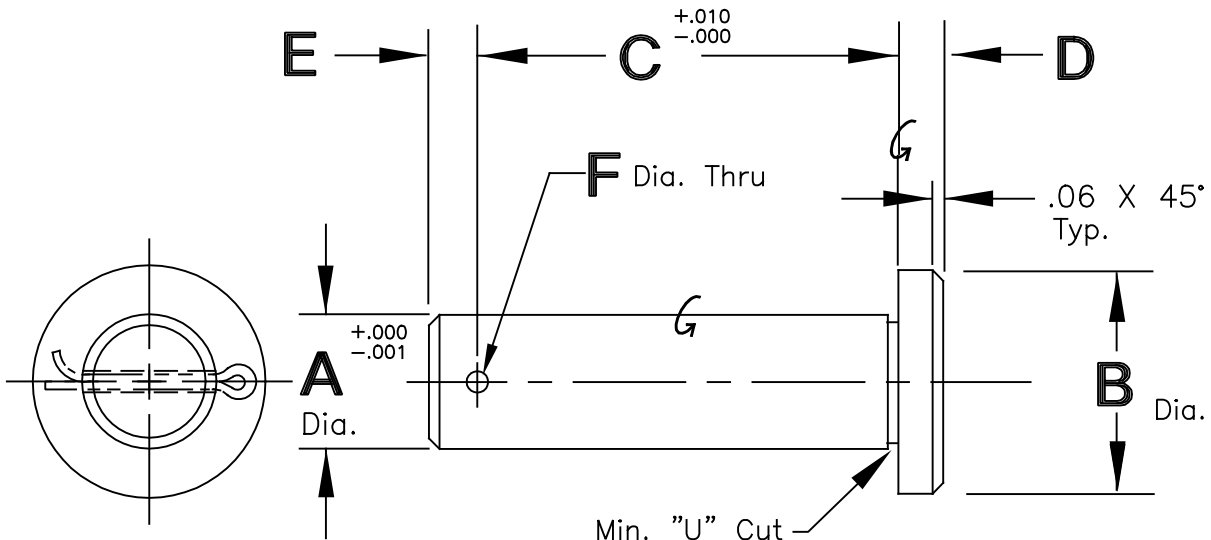
SECTION C

HEAD TYPE SHAFTS

Detail Standard Co.

HEAD PIN WITH COTTER PIN

Type HCPH, HCPA & HCPC



A Dia.	B Dia.	D	E	F	CAD FILE NO.
.250	.50	.12	.18	.09	HCP250
.312	.56	.12	.18	.12	HCP312
.375	.62	.18	.18	.12	HCP375
.438	.88	.18	.25	.12	HCP438
.500	1.00	.25	.25	.12	HCP500
.625	1.12	.25	.25	.12	HCP625
.750	1.25	.25	.25	.12	HCP750
.875	1.38	.31	.25	.12	HCP875
1.000	1.50	.31	.38	.12	HCP1000
1.250	1.88	.38	.38	.18	HCP1250

Type Material & Heat Treat

HCPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
HCPA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
HCPC 1018 C.R.S.

Cotter pin included with assembly.

Model Number Development

Detail Standard Pin Ass'y
HCPH-.500- 2.50

Head Pin with Cotter Pin

"A" Diameter

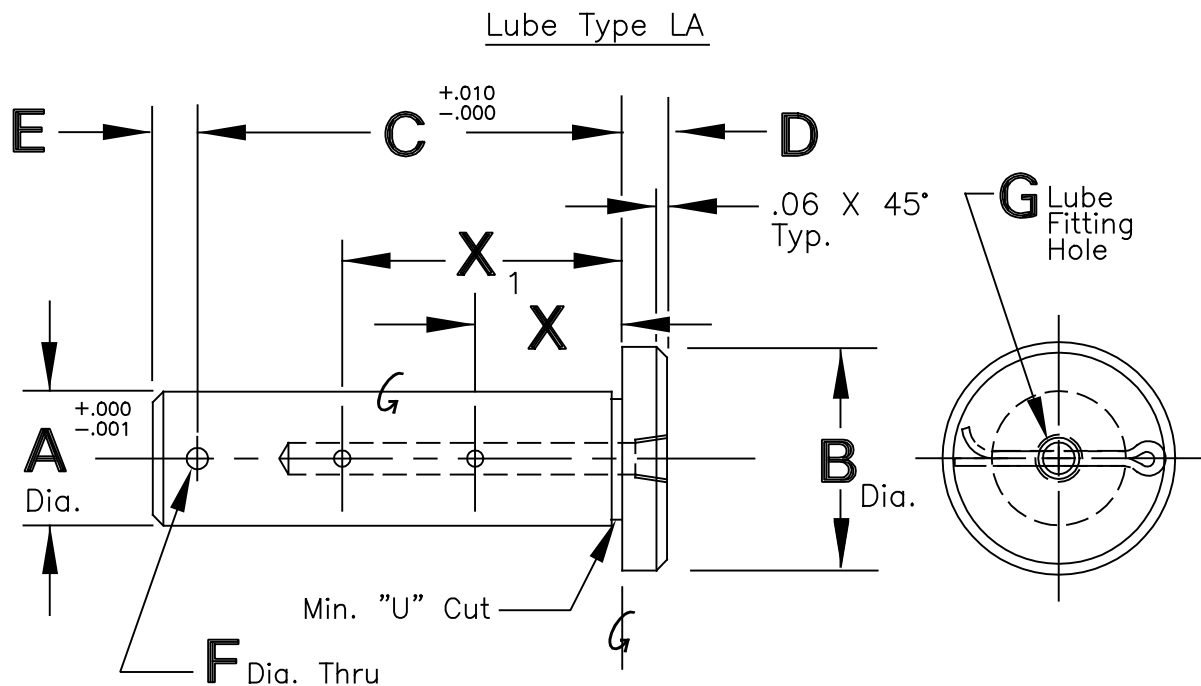
"C" Length

NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MHCPH-12-64

Detail Standard Co.

HEAD PIN WITH COTTER PIN



Type	Material & Heat Treat
HCPH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
HCPA	Pre-heat treated Alloy, Rock "C" 28-32 Uniform Throughout.
HCPC	1018 C.R.S.

Cotter pin included with assembly.

A Dia.	B Dia.	D	E	F	G
.375	.62	.18	.18	.12	5/32 Drive
.438	.88	.18	.25	.12	5/32 Drive
.500	1.00	.25	.25	.12	1/4-28 ST
.625	1.12	.25	.25	.12	1/8-27 NPT
.750	1.25	.25	.25	.12	1/8-27 NPT
.875	1.38	.31	.25	.12	1/8-27 NPT
1.000	1.50	.31	.38	.12	1/8-27 NPT
1.250	1.88	.38	.38	.18	1/8-27 NPT

Model Number Development

Detail Standard Pin Ass'y

HCPH - .750 - 4.00 - LA - 2.00 -

Type _____
"A" Diameter _____
"C" Length _____
Lube Style _____
"X" Dim. _____
Additional "X₁" Dims. _____

NOTE: All pins with lube holes are "special" items

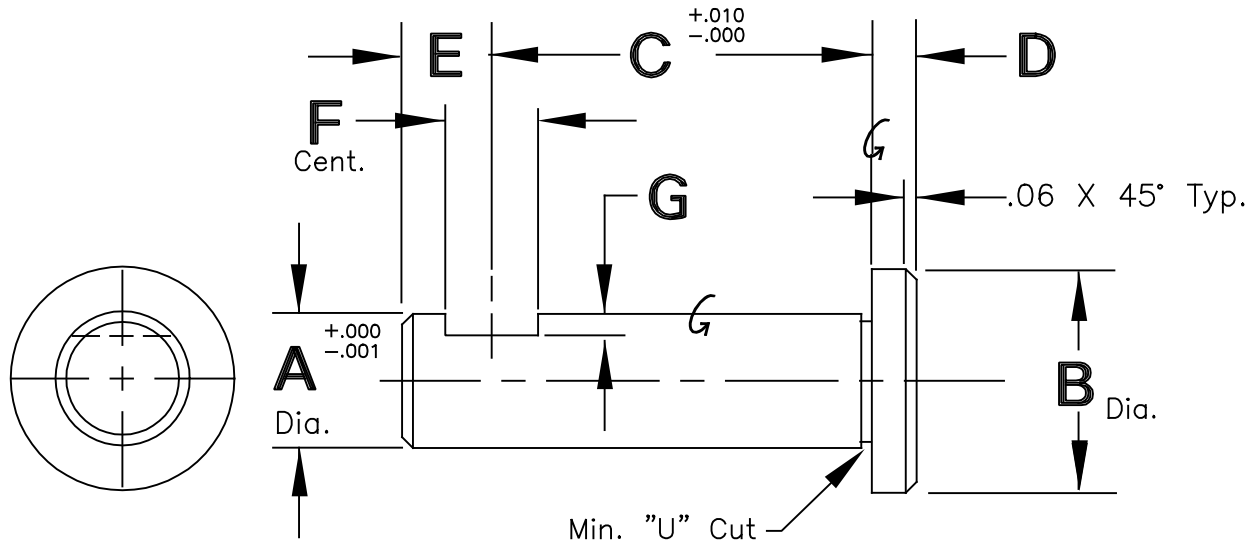
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MCHPH-20-100-LA-50

Detail Standard Co.

HEAD PIN WITH FLAT

Type HSFH, HSFA & HSFC



A Dia.	B Dia.	D	E	F	G	CAD FILE NO.
.250	.50	.12	.25	.28	.06	HSF250
.312	.56	.12	.25	.28	.06	HSF312
.375	.62	.18	.31	.40	.06	HSF375
.438	.88	.18	.31	.40	.06	HSF438
.500	1.00	.25	.44	.40	.09	HSF500
.625	1.12	.25	.44	.40	.09	HSF625
.750	1.25	.25	.50	.53	.12	HSF750
.875	1.38	.31	.50	.53	.12	HSF875
1.000	1.50	.31	.50	.53	.12	HSF1000
1.250	1.88	.38	.50	.53	.12	HSF1250

Type Material & Heat Treat

HSFH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 HSFA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
 HSFC 1018 C.R.S.

Model Number Development

Detail Standard Pin Ass'y
 HSFH-.500- 2.50 -.62

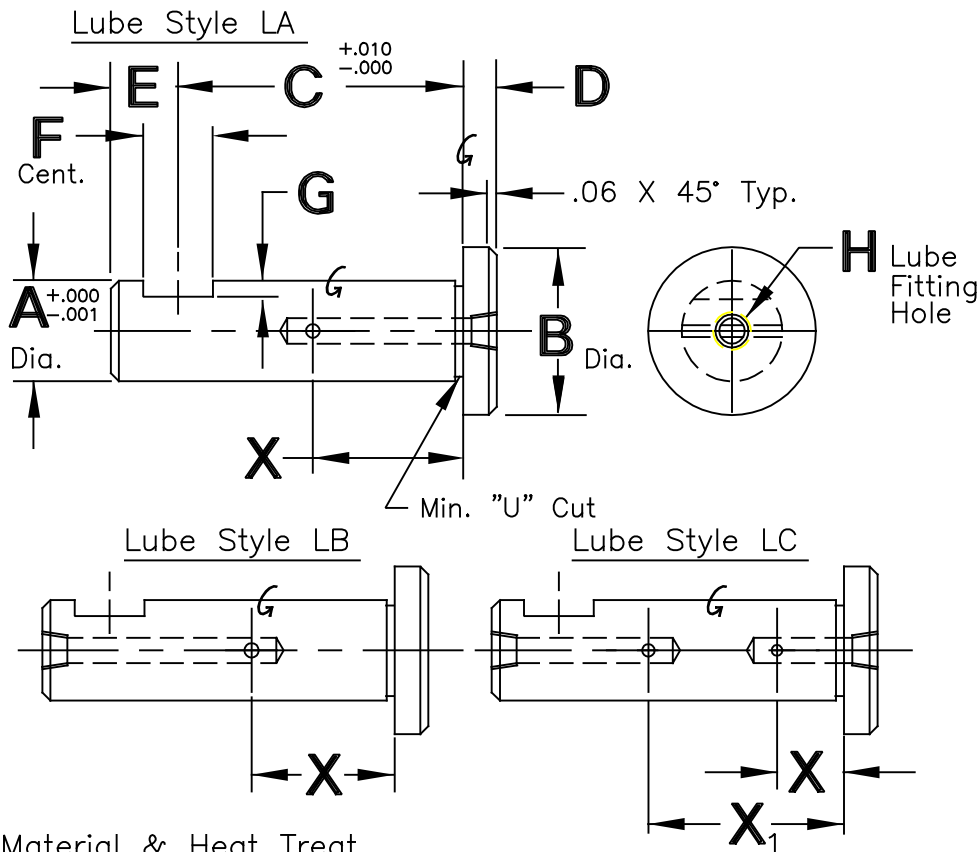
Head Pin with Flat _____
 "A" Diameter _____
 "C" Length _____
 "E" Dimension _____

NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MHSFH-12-64-18

Detail Standard Co.

HEAD PIN WITH FLAT



Type	Material & Heat Treat
HSFH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
HSFA	Pre-heat treated Alloy, Rock "C" 28-32 Uniform Throughout.
HSFC	1018 C.R.S.

						H		
A Dia.	B Dia.	D	E	F	G	Style LA	Style LB	Style LC
.375	.62	.18	.31	.40	.06	5/32 Drive	5/32 Drive	5/32 Drive
.438	.88	.18	.31	.40	.06	5/32 Drive	5/32 Drive	5/32 Drive
.500	1.00	.25	.44	.40	.09	1/4-28 ST.	5/32 Drive	5/32 Drive
.625	1.12	.25	.44	.40	.09	1/8-27 NPT.	1/4-28 ST.	1/4-28 ST.
.750	1.25	.25	.50	.53	.12	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.
.875	1.38	.31	.50	.53	.12	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.
1.000	1.50	.31	.50	.53	.12	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.
1.250	1.88	.38	.50	.53	.12	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.

Model Number Development

Detail Standard Pin
HSFH -.750- 4.00 -.75 -LA- 2.00 -

Type _____
"A" Diameter _____
"C" Length _____
"E" Dimension _____
Lube Style _____
"X" Dim. _____
Additional "X₁" Dims. _____

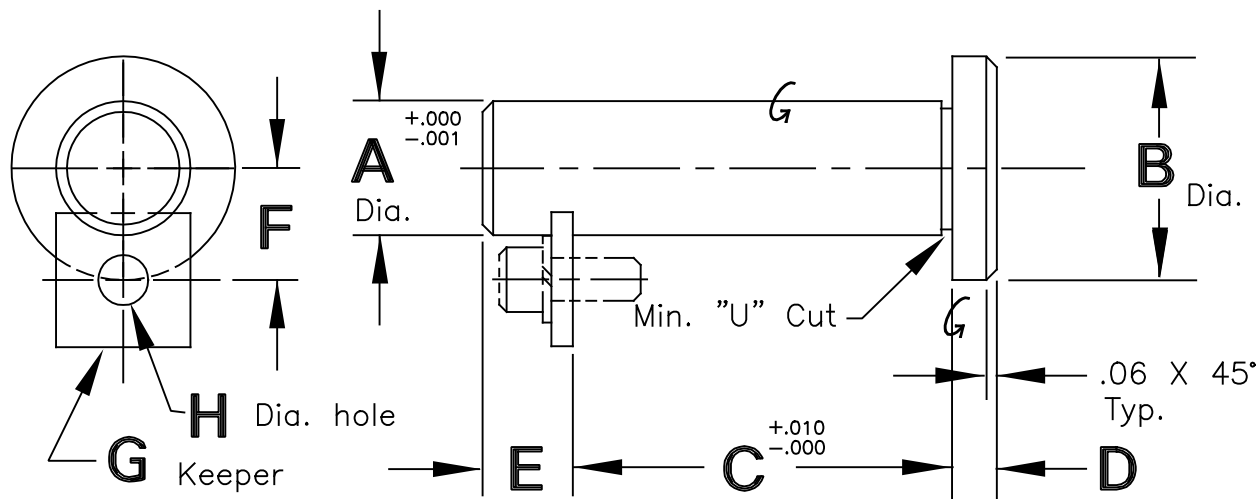
NOTE: All pins with lube holes are "special" items
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MHSFH-20-100-20-LA-50

Detail Standard Co.

HEAD PIN WITH KEEPER

Type HKPH, HKPA & HKPC

SEE PAGE E-1
FOR KEEPERS



A Dia.	B Dia.	D	E	F	G	H	CAD FILE NO.
.250	.50	.12	.40	.31	K-1	.22	HKP250
.312	.56	.12	.40	.34	K-1	.22	HKP312
.375	.62	.18	.40	.38	K-1	.22	HKP375
.438	.88	.18	.50	.47	K-2	.28	HKP438
.500	1.00	.25	.50	.50	K-2	.28	HKP500
.625	1.12	.25	.50	.56	K-2	.28	HKP625
.750	1.25	.25	.50	.62	K-2	.28	HKP750
.875	1.38	.31	.50	.69	K-2	.28	HKP875
1.000	1.50	.31	.56	.88	K-3	.34	HKP1000
1.250	1.88	.38	.56	1.00	K-3	.34	HKP1250

Type Material & Heat Treat

HKPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 HKPA Pre-heat treated Alloy, Rock."C" 28-32 Uniform Throughout.
 HKPC 1018 C.R.S.

Keeper included with assembly (screw not included)

Model Number Development

Detail Standard Pin Ass'y
 HKPH-.500- 2.50

Head Pin with Keeper _____

"A" Diameter _____

"C" Length _____

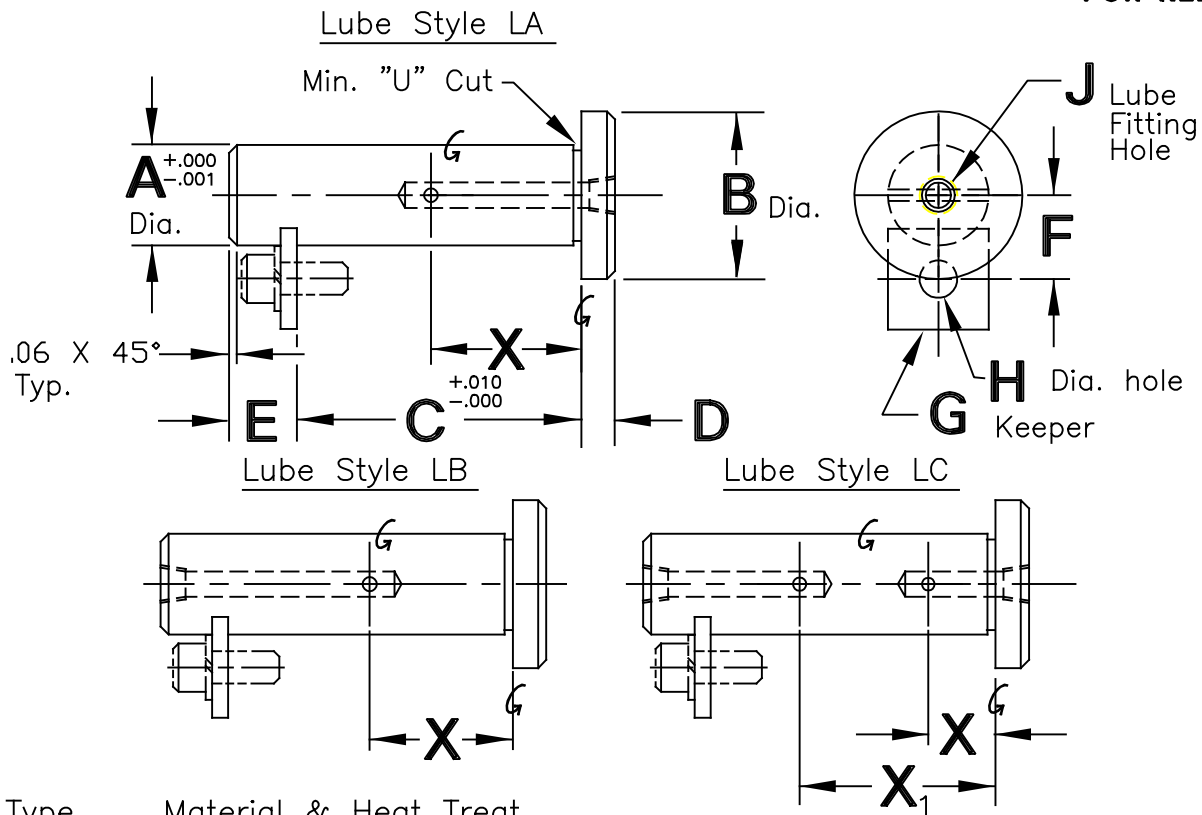
NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MHKPH-12-64

Detail Standard Co.

HEAD PIN WITH KEEPER

SEE PAGE E-1
FOR KEEPERS



Type	Material & Heat Treat
HKPH	12L14 C.R.S., Carb.,Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
HKPA	Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
HKPC	1018 C.R.S.

							J		
A Dia.	B Dia.	D	E	F	G	H	Style LA	Style LB	Style LC
.375	.62	.18	.40	.38	K-1	.22	1/4-28 ST	5/32 Drive	5/32 Drive
.438	.88	.18	.50	.47	K-2	.28	1/4-28 ST	5/32 Drive	5/32 Drive
.500	1.00	.25	.50	.50	K-2	.28	1/4-28 ST	5/32 Drive	5/32 Drive
.625	1.12	.25	.50	.56	K-2	.28	1/8-27 NPT	1/4-28 ST	1/4-28 ST
.750	1.25	.25	.50	.62	K-2	.28	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT
.875	1.38	.31	.50	.68	K-2	.28	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT
1.000	1.50	.31	.56	.88	K-3	.34	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT
1.250	1.88	.38	.56	1.00	K-3	.34	1/8-27 NPT	1/8-27 NPT	1/8-27 NPT

Model Number Development

Detail Standard Pin Ass'y

HKPH -.750- 4.00 - LA - 2.00 -

Type _____

"A" Diameter _____

"C" Length _____

Lube Style _____

"X" Dim. _____

Additional "X₁" Dims. _____

NOTE: All pins with lube holes are "special" items

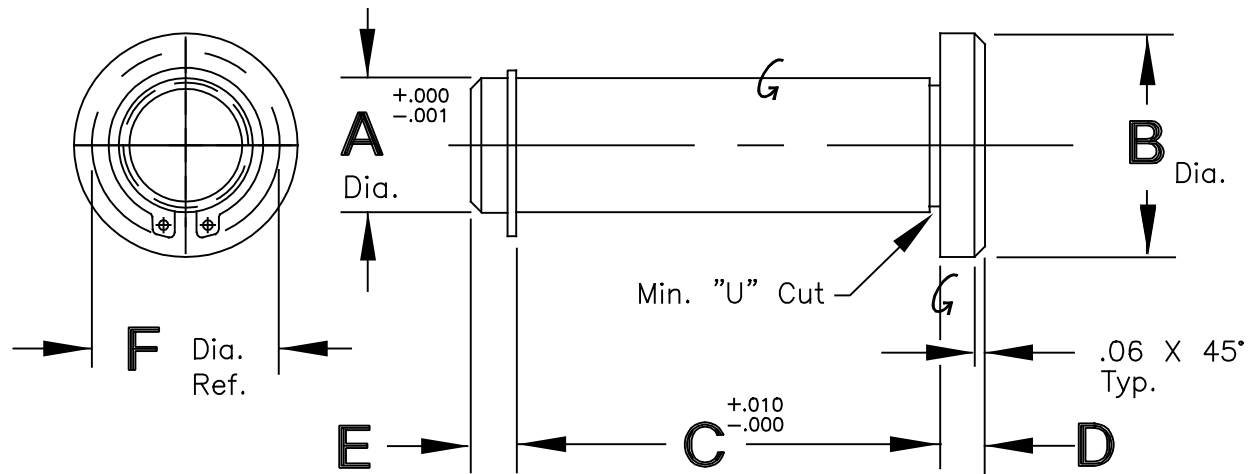
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MHKPH-20-100-LA-50

Detail Standard Co.

HEAD PIN WITH SNAP RING

Type HSPH, HSPA & HSPC



A Dia.	B Dia.	D	E	F	CAD FILE NO.
.250	.50	.12	.12	.43	HSP250
.312	.56	.12	.16	.52	HSP312
.375	.62	.18	.18	.59	HSP375
.438	.88	.18	.18	.64	HSP438
.500	1.00	.25	.25	.74	HSP500
.625	1.12	.25	.25	.87	HSP625
.750	1.25	.25	.25	1.05	HSP750
.875	1.38	.31	.25	1.16	HSP875
1.000	1.50	.31	.25	1.35	HSP1000
1.250	1.88	.38	.31	1.62	HSP1250

Type Material & Heat Treat

HSPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
HSPA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
HSPC 1018 C.R.S.

Snap ring included with assembly.

Model Number Development

Detail Standard Pin Ass'y
HSPH-.500- 2.50

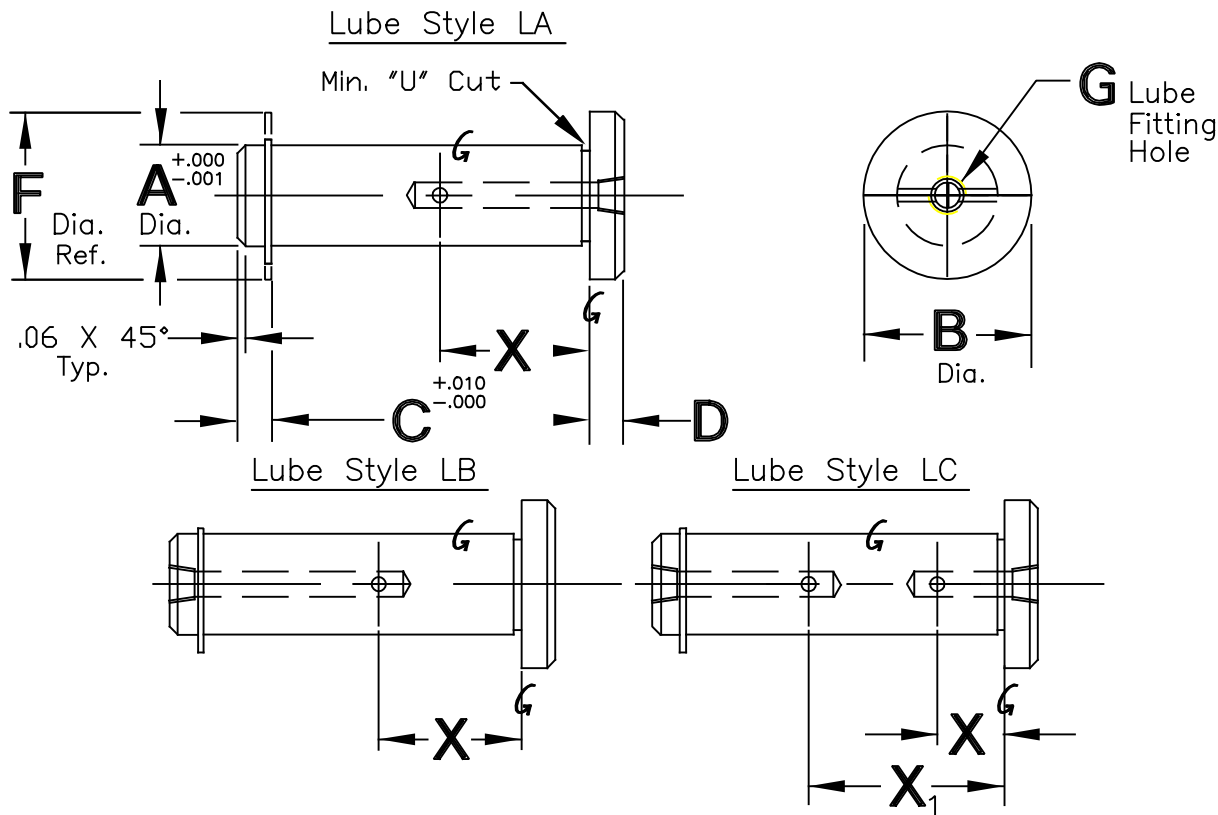
Head Pin with Snap Ring _____
"A" Diameter _____
"C" Length _____

NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MHSPH-12-64

Detail Standard Co.

HEAD PIN WITH SNAP RING



Type	Material & Heat Treat
HSPH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
HSPA	Pre-heat treated Alloy, Rock "C" 28-32 Uniform Throughout.
HSPC	1018 C.R.S.

A Dia.	B Dia.	D	E	F Dia.	G
.375	.62	.18	.18	.59	1/4-28 ST
.438	.88	.18	.18	.64	1/4-28 ST
.500	1.00	.25	.25	.74	1/4-28 ST
.625	1.12	.25	.25	.87	1/8-27 NPT
.750	1.25	.25	.25	1.05	1/8-27 NPT
.875	1.38	.31	.25	1.16	1/8-27 NPT
1.000	1.50	.31	.25	1.35	1/8-27 NPT
1.250	1.88	.38	.31	1.62	1/8-27 NPT

Model Number Development

Detail Standard Pin Ass'y

HSPH - .750 - 4.00 - LA - 2.00 -

Type _____

"A" Diameter _____

"C" Length _____

Lube Style _____

"X" Dim. _____

Additional "X₁" Dims. _____

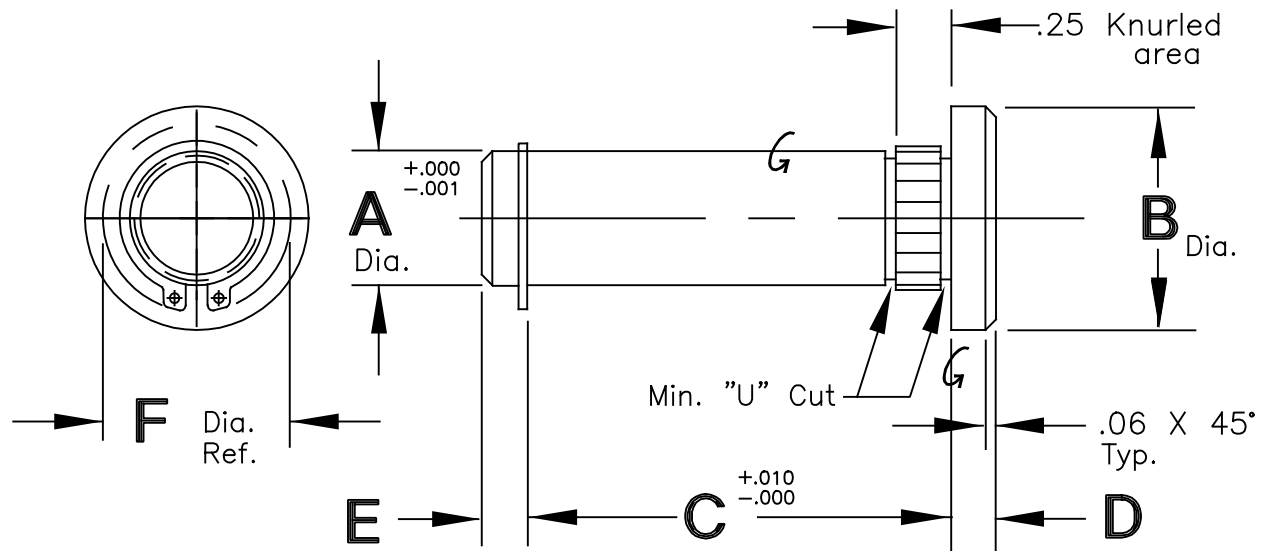
NOTE: All pins with lube holes are "special" items

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MHSPH-20-100-LA-50

Detail Standard Co.

HEAD PIN WITH KNURL AND SNAP RING

Type KSPH, KSPA & KSPC



A Dia.	B Dia.	D	E	F	CAD FILE NO.
.250	.50	.12	.12	.43	KSP250
.312	.56	.12	.16	.52	KSP312
.375	.62	.18	.18	.59	KSP375
.438	.88	.18	.18	.64	KSP438
.500	1.00	.25	.25	.74	KSP500
.625	1.12	.25	.25	.87	KSP625
.750	1.25	.25	.25	1.05	KSP750
.875	1.38	.31	.25	1.16	KSP875
1.000	1.50	.31	.25	1.35	KSP1000
1.250	1.88	.38	.31	1.62	KSP1250

Type Material & Heat Treat

KSPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 KSPA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
 KSPC 1018 C.R.S.

Snap ring included with assembly.

Model Number Development

Detail Standard Pin Ass'y
 KSPH-.500- 2.50

Head Pin with Knurl and Snap Ring

"A" Diameter

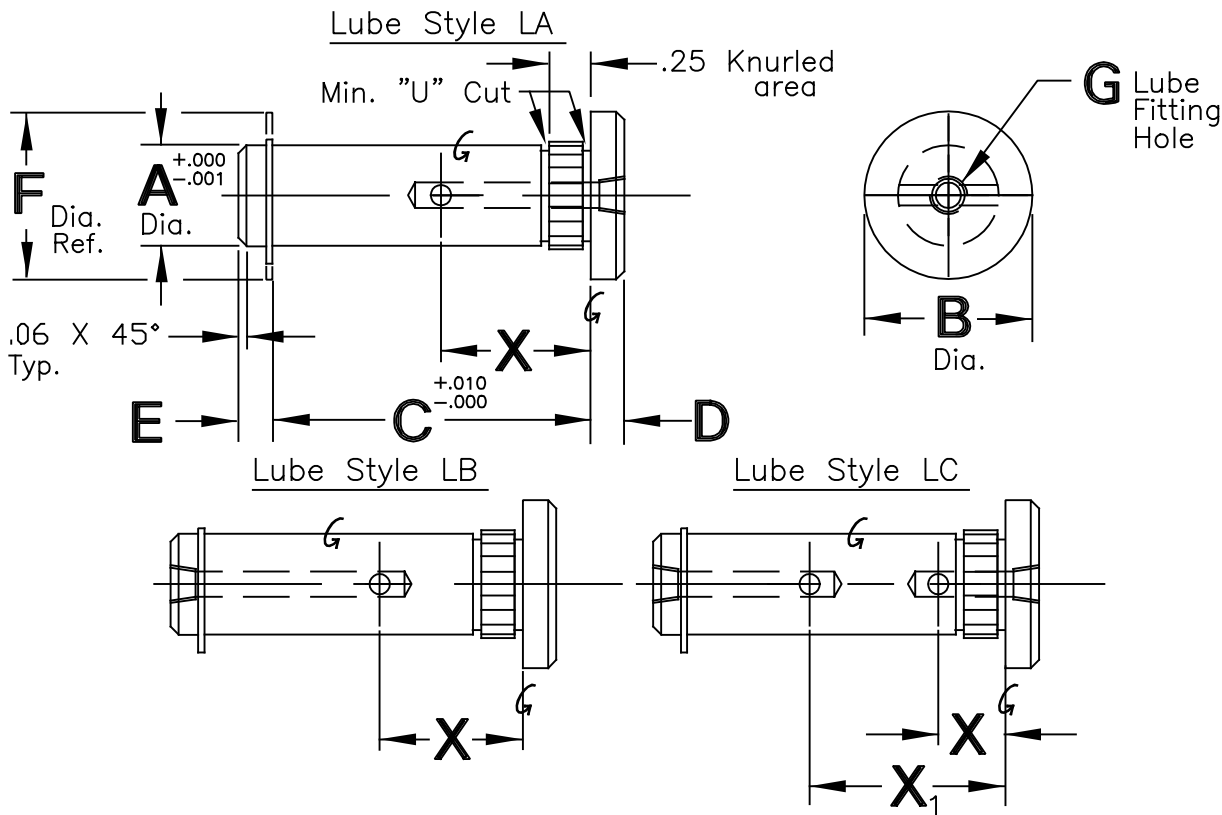
"C" Length

NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MKSPH-12-64

Detail Standard Co.

HEAD PIN WITH KNURL AND SNAP RING



Type	Material & Heat Treat
KSPH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
KSPA	Pre-heat treated Alloy, Rock "C" 28-32 Uniform Throughout.
KSPC	1018 C.R.S.

A Dia.	B Dia.	D	E	F Dia.	G
.375	.62	.18	.18	.59	1/4-28 ST
.438	.88	.18	.18	.64	1/4-28 ST
.500	1.00	.25	.25	.74	1/4-28 ST
.625	1.12	.25	.25	.87	1/8-27 NPT
.750	1.25	.25	.25	1.05	1/8-27 NPT
.875	1.38	.31	.25	1.16	1/8-27 NPT
1.000	1.50	.31	.25	1.35	1/8-27 NPT
1.250	1.88	.38	.31	1.62	1/8-27 NPT

Model Number Development

Detail Standard Pin Ass'y

KSPH -.750- 4.00 - LA - 2.00 -

Type _____
"A" Diameter _____
"C" Length _____
Lube Style _____
"X" Dim. _____
Additional "X₁" Dims. _____

NOTE: All pins with lube holes are "special" items

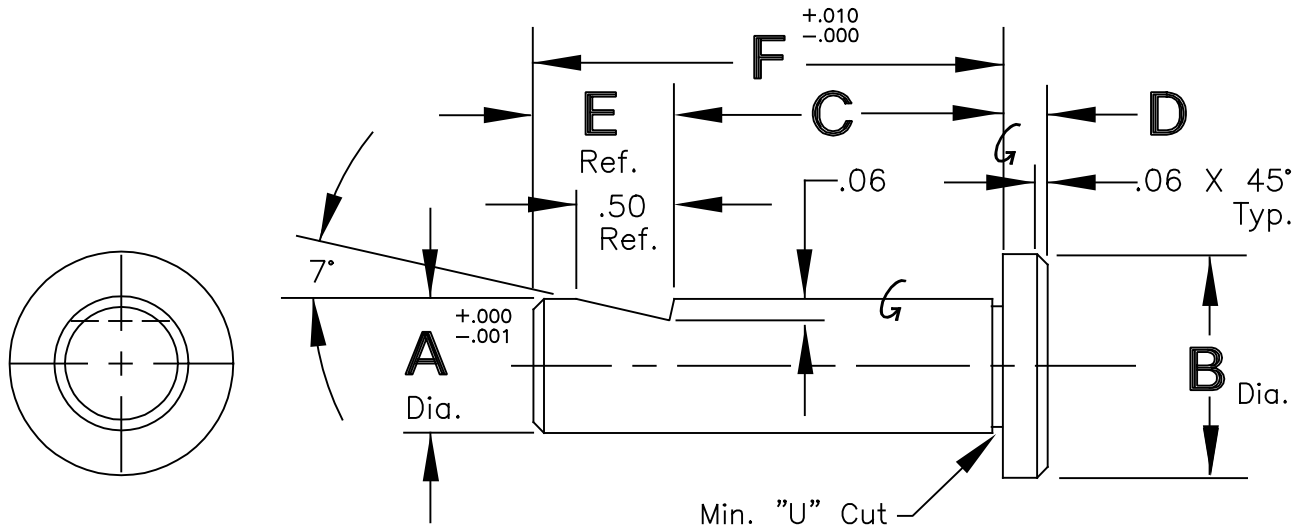
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MKSPH-20-100-LA-50

Detail Standard Co.

HEAD PIN WITH WHISTLENOTCH

Type HWH, HWA & HWC



A Dia.	B Dia.	D	E	CAD FILE NO.
.250	.50	.12	.62	HW250
.312	.56	.12	.62	HW312
.375	.62	.18	.62	HW375
.438	.88	.18	.62	HW438
.500	1.00	.25	.75	HW500
.625	1.12	.25	.75	HW625
.750	1.25	.25	.75	HW750
.875	1.38	.31	.75	HW875
1.000	1.50	.31	.75	HW1000
1.250	1.88	.38	.75	HW1250

Type Material & Heat Treat

HWH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
HWA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
HWC 1018 C.R.S.

Model Number Development

Detail Standard Pin Ass'y
HWH -.500- 2.50 -3.25

Head Pin with Whistlenotch

"A" Diameter

"C" Dimension

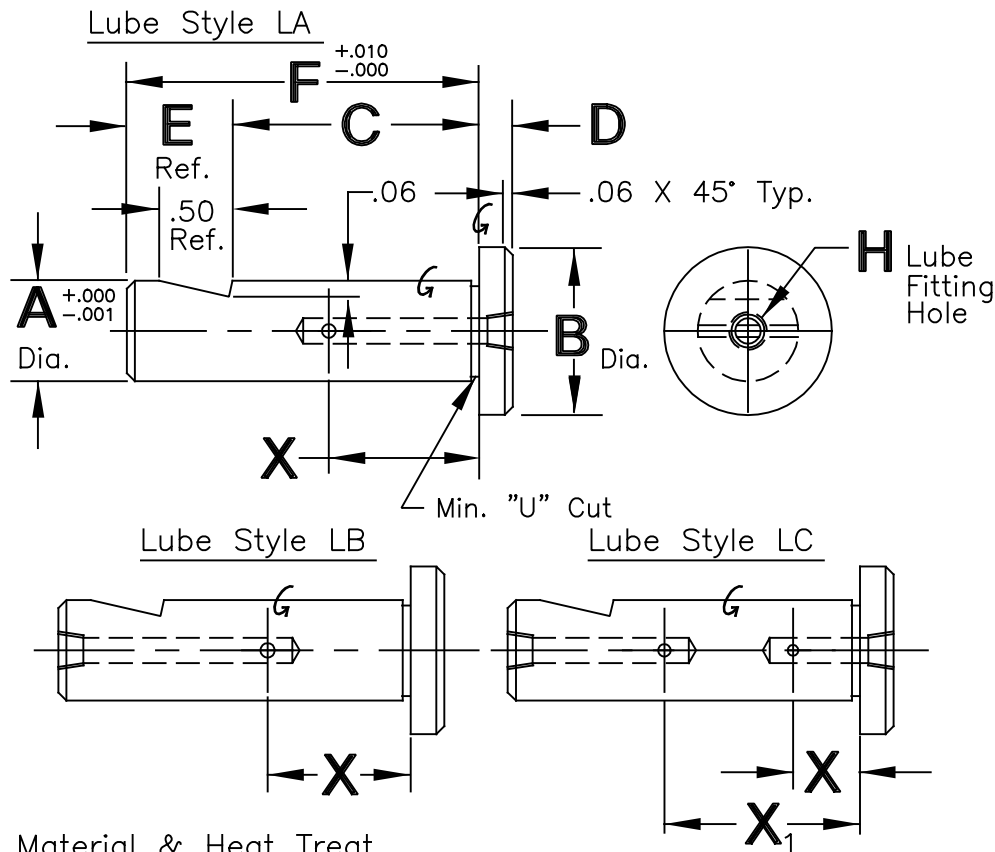
"F" Length

NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MWH-12-64-82

Detail Standard Co.

HEAD PIN WITH WHISTLENOTCH



Type

Material & Heat Treat

HWH

12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.

HWA

Pre-heat treated Alloy, Rock "C" 28-32 Uniform Throughout.

HWC

1018 C.R.S.

				H		
A Dia.	B Dia.	D	E	Style LA	Style LB	Style LC
.375	.62	.18	.62	5/32 Drive	5/32 Drive	5/32 Drive
.438	.88	.18	.62	5/32 Drive	5/32 Drive	5/32 Drive
.500	1.00	.25	.75	1/4-28 ST.	5/32 Drive	5/32 Drive
.625	1.12	.25	.75	1/8-27 NPT.	1/4-28 ST.	1/4-28 ST.
.750	1.25	.25	.75	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.
.875	1.38	.31	.75	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.
1.000	1.50	.31	.75	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.
1.250	1.88	.38	.75	1/8-27 NPT.	1/8-27 NPT.	1/8-27 NPT.

Model Number Development

Detail Standard Pin

HWH -.750-4.00-5.00-LA-2.00-

Type

"A" Diameter

"C" Length

"F" Dimension

Lube Style

"X" Dim.

Additional "X₁" Dims.

NOTE: All pins with lube holes are "special" items

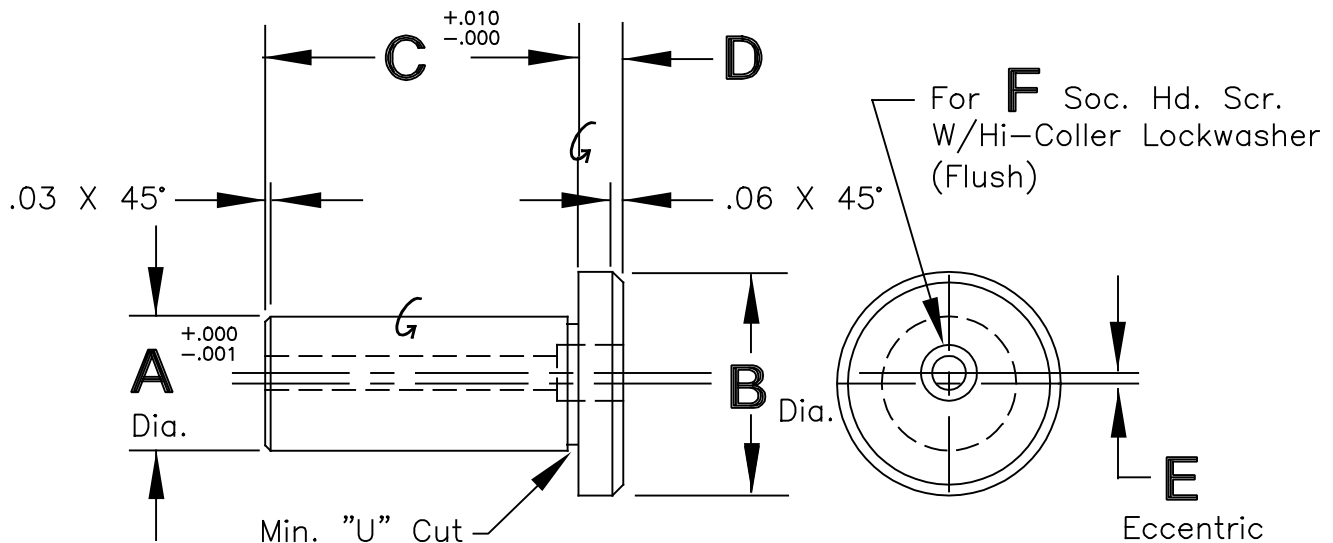
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MWH-20-100-130-LA-50

Detail Standard Co.

STUB PIN

Type SPH, SPA & SPC



A Dia.	B Dia.	D	E	F	CAD FILE NO.
.438	1.00	.18	.03	#6	SP438
.500	1.12	.18	.03	#6	SP500
.625	1.25	.25	.06	#10	SP625
.750	1.50	.25	.06	1/4	SP750
.875	1.62	.25	.06	5/16	SP875
1.000	1.75	.38	.06	3/8	SP1000
1.250	2.00	.38	.06	3/8	SP1250

Type Material & Heat Treat

SPH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 SPA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
 SPC 1018 C.R.S.

Model Number Development

Detail Standard Pin Ass'y
 SPH - .500 - 2.50 - N

Stub Pin _____
 "A" Diameter _____
 "C" Length _____
 (Special option non-eccentric screw location) _____

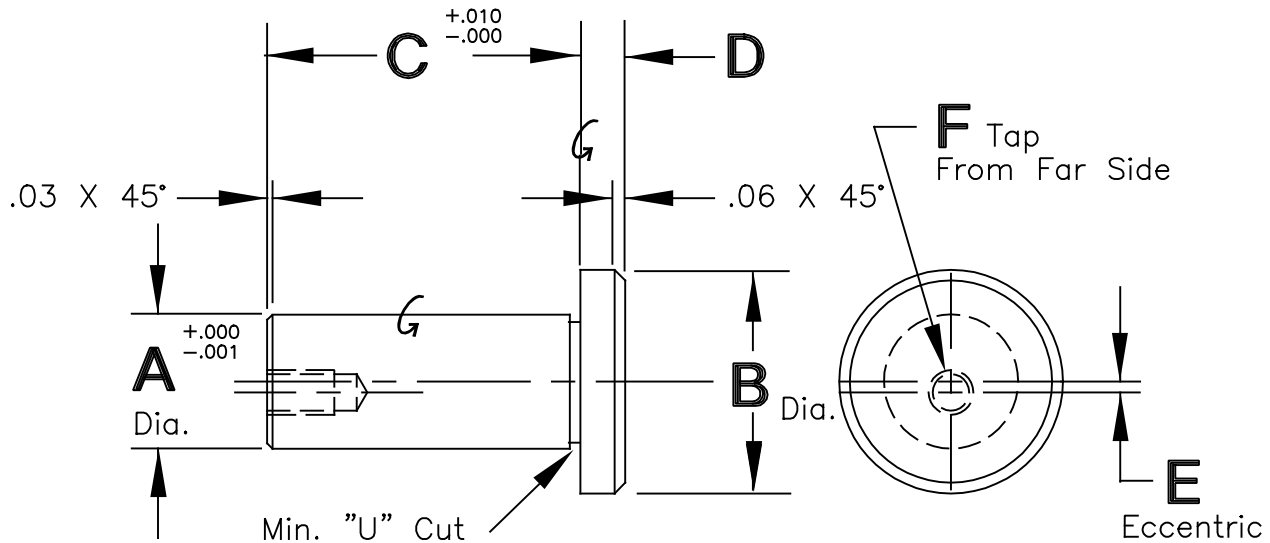
NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MSPH-12-64-N

Detail Standard Co.

STUB PIN

Type TSH, TSA & TSC



A Dia.	B Dia.	D	E	F	CAD FILE NO.
.438	1.00	.18	.03	#10-32x1/2	TS438
.500	1.12	.18	.03	#10-32x1/2	TS500
.625	1.25	.25	.06	1/4-20x5/8	TS625
.750	1.50	.25	.06	5/16-18x5/8	TS750
.875	1.62	.25	.06	5/16-18x5/8	TS875
1.000	1.75	.38	.06	5/16-18x5/8	TS1000
1.250	2.00	.38	.06	3/8-16x3/4	TS1250

Type Material & Heat Treat

TSH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 TSA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
 TSC 1018 C.R.S.

Model Number Development

Stub Pin _____ Detail Standard Pin Ass'y
 "A" Diameter _____ TSH -.500- 2.50 -N
 "C" Length _____
 (Special option non-eccentric tapped hole location) _____

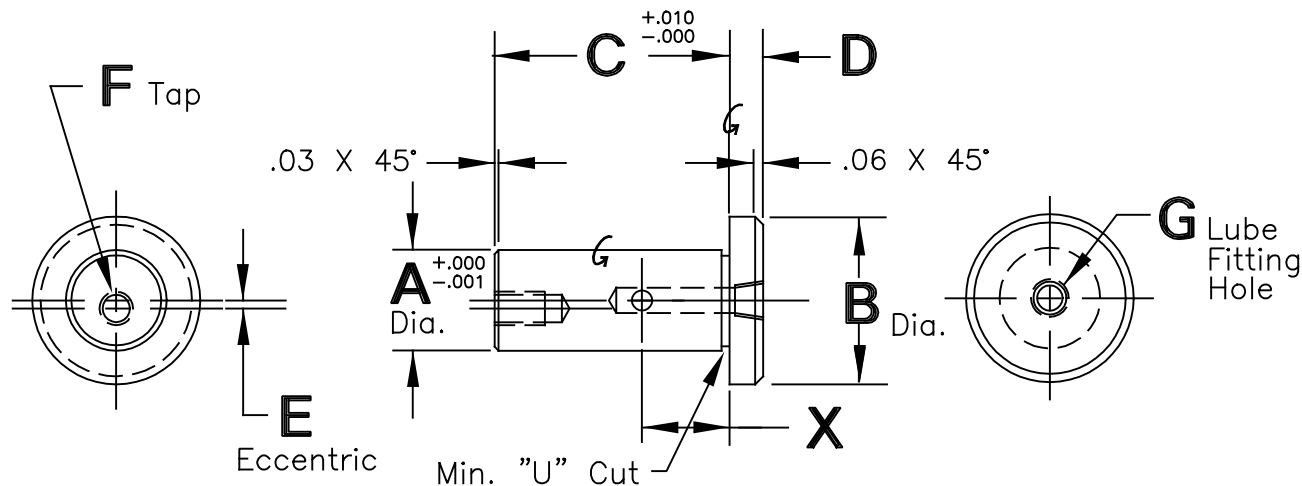
NOTE: Standard lengths for diameters .50 and under are from 1.00" to 3.00" in .25" increments, and standard lengths for diameters .62 and over are from 3.00" to 6.00" in .50" increments. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MTSH-12-64-N

Detail Standard Co.

STUB PIN

Lube Style LA



A Dia.	B Dia.	D	E	F	G
.438	1.00	.18	.03	#10-32x1/2	1/4-28 ST
.500	1.12	.18	.03	#10-32x1/2	1/4-28 ST
.625	1.25	.25	.06	1/4-20x5/8	1/4-28 ST
.750	1.50	.25	.06	5/16-18x5/8	1/8-27 NPT
.875	1.62	.25	.06	5/16-18x5/8	1/8-27 NPT
1.000	1.75	.38	.06	5/16-18x5/8	1/8-27 NPT
1.250	2.00	.38	.06	3/8-16x3/4	1/8-27 NPT

Type	Material & Heat Treat
TSH	12L14 C.R.S., Carb., Hdn. & Gr., Rock "C" 55-60, .03 Min. Case.
TSA	Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
TSC	1018 C.R.S.

Model Number Development

Detail Standard Stub Pin

TSH - .750 - 2.00 - LA - .88 - -N

Type _____

"A" Diameter _____

"C" Length _____

Lube Style _____

"X" Dim. _____

Additional "X" Dims. _____

(Special option non-eccentric tapped hole location) _____

NOTE: All pins with lube holes are "special" items

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MTS-20-100-LA-50-N

Detail Standard Co.

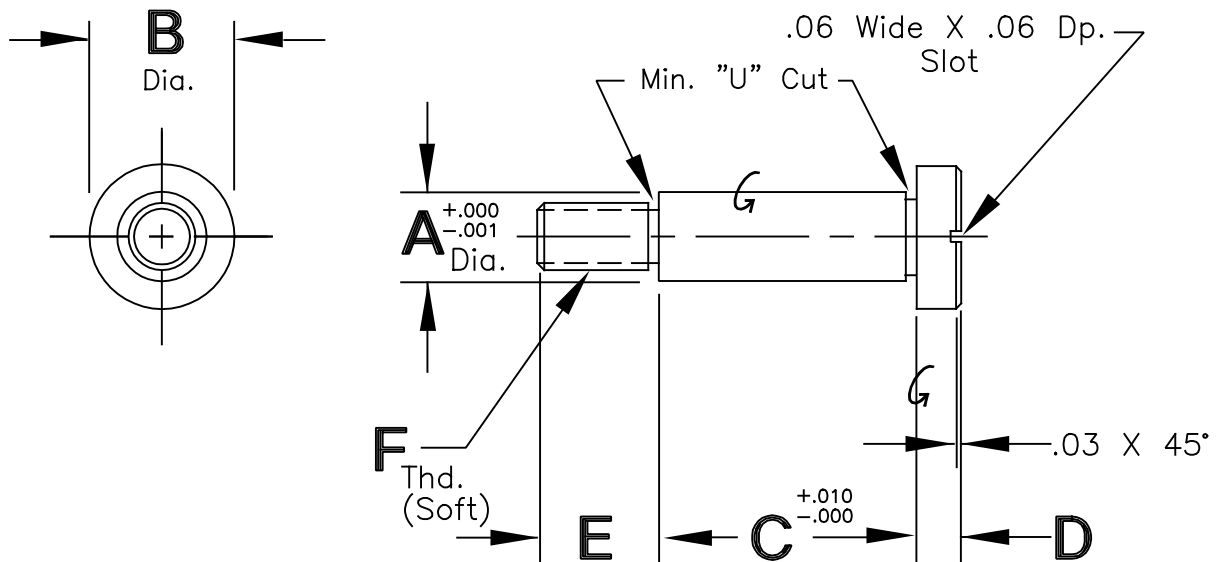
SECTION D

SHOULDER SCREWS

Detail Standard Co.

LIGHT DUTY SHOULDER SCREW

Type LDSH, LDSA & LDSC
(COARSE THREAD)



A Dia.	B Dia.	* C Length							D	* E Length					F	CAD FIL NO.
		.50	.75	1.00	1.25	1.50	1.75	2.00		.44	.56	.68	.81	.94		
.312	.50	X	X	X					.12	X	X				1/4-20	LDS312
.375	.68		X	X	X				.18		X	X			5/16-18	LDS375
.438	.75		X		X				.18			X	X		5/16-18	LDS438
.500	.81			X	X	X			.25			X	X		3/8-16	LDS500
.625	.94					X		X	.25				X	X	1/2-13	LDS625

Type	Material & Heat Treat
LDSH	12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
LDSA	Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
LDSC	1018 C.R.S.

Model Number Development

Detail Standard Shoulder Screw

LDSH-.500-1.50-.56-3/8-16

Light Duty Shoulder Screw _____
 "A" Diameter _____
 "C" Length of Body _____
 "E" Length of Thread _____
 "F" Thread _____

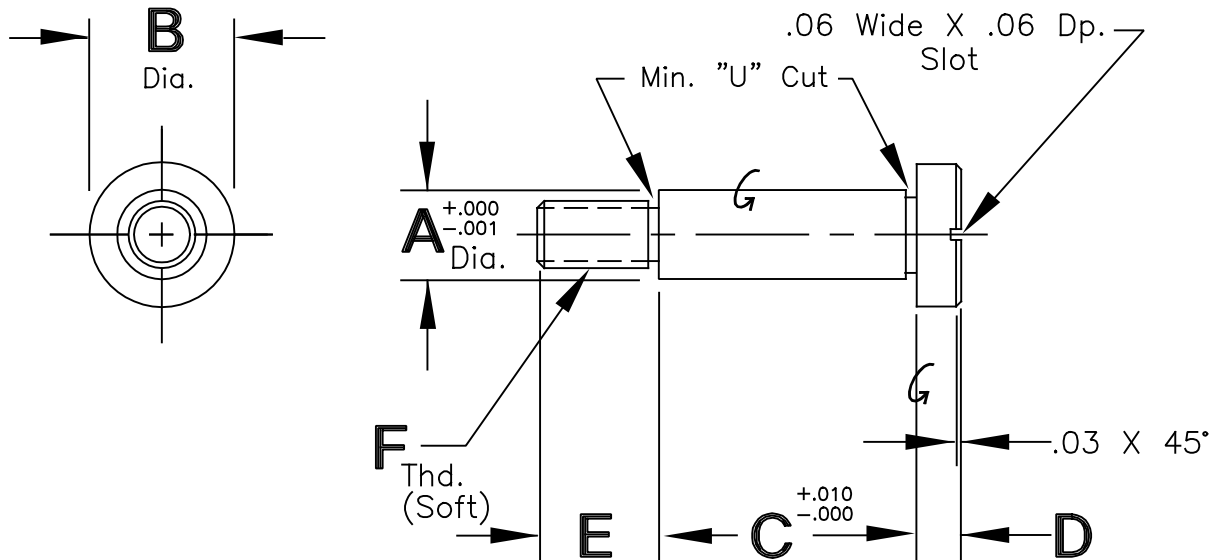
* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MLDSH-12-38-14-M10-1.5

Detail Standard Co.

LIGHT DUTY SHOULDER SCREW

Type LFSH, LFSA & LFSC
(FINE THREAD)



A Dia.	B Dia.	* C Length							D	* E Length					F	CAD FIL NO.
		.50	.75	1.00	1.25	1.50	1.75	2.00		.44	.56	.68	.81	.94		
.312	.50	X	X	X					.12	X	X				1/4-28	LFS312
.375	.68		X	X	X				.18		X	X			5/16-24	LFS375
.438	.75		X		X				.18			X	X		5/16-24	LFS438
.500	.81			X	X	X			.25			X	X		3/8-24	LFS500
.625	.94					X		X	.25				X	X	1/2-20	LFS625

Type	Material & Heat Treat
LFSH	12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
LFSA	Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
LFSC	1018 C.R.S.

Model Number Development

Detail Standard Shoulder Screw
LFSH-.500-1.50-.56-3/8-24

Light Duty Shoulder Screw _____
 "A" Diameter _____
 "C" Length of Body _____
 "E" Length of Thread _____
 "F" Thread _____

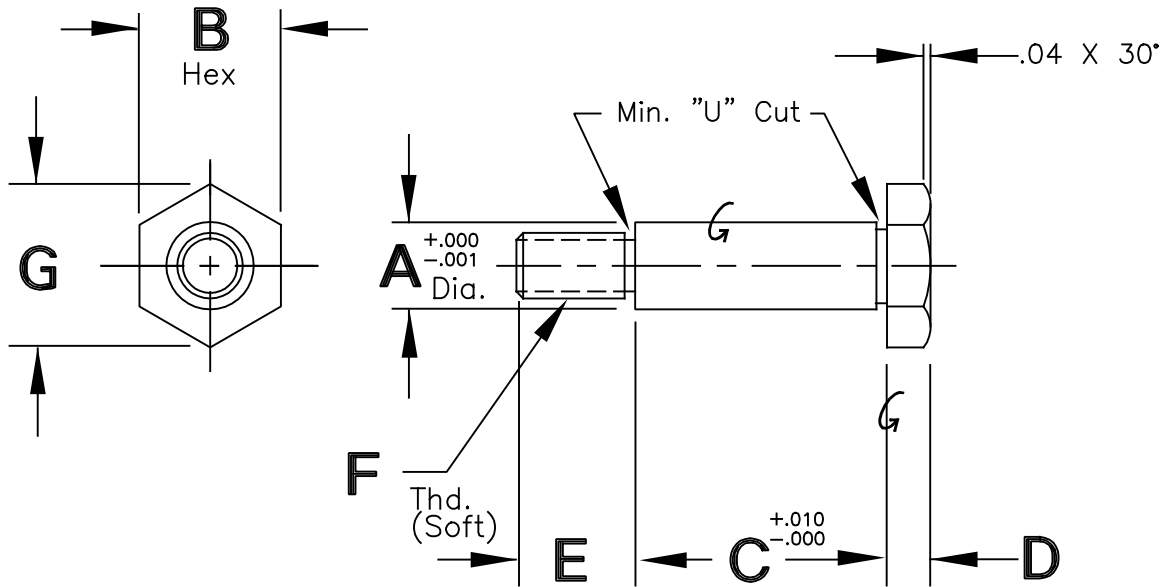
* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MLFSH-12-38-14-M10-1.25

Detail Standard Co.

HEX HEAD SHOULDER SCREWS

Type HSSH, HHSA & HHSC
(COARSE THREAD)



		* C Length							* E Length								
A Dia.	B Hex	1.00	1.50	2.00	3.00	4.00	5.00	6.00	D	.56	.94	1.44	1.94	2.44	F	G	CAD FILE NO.
.625	.88	X	X	X					.25	X	X				1/2-13	1.01	HHS625
.750	1.00	X	X	X					.25	X	X				5/8-11	1.15	HHS750
.875	1.12	X	X	X	X				.25		X	X			3/4-10	1.30	HHS875
1.000	1.25		X	X	X				.31		X	X			3/4-10	1.44	HHS1000
1.250	1.50		X	X	X	X			.31		X	X			7/8-9	1.73	HHS1250
1.500	2.00			X	X		X		.38			X	X		1 1/8-7	2.31	HHS1500
1.750	2.25				X	X		X	.38			X		X	1 3/8-6	2.60	HHS1750
2.000	2.50					X	X	X	.50			X		X	1 1/2-6	2.89	HHS2000

Type Material & Heat Treat

HSSH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.

HHSA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.

HHSC 1018 C.R.S.

Model Number Development

Detail Standard Shoulder Screw
HSSH-1.000-2.50-1.00-3/4-10

Hex Head Shoulder Screw

"A" Diameter

"C" Length

"E" Length of Thread

"F" Thread

* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

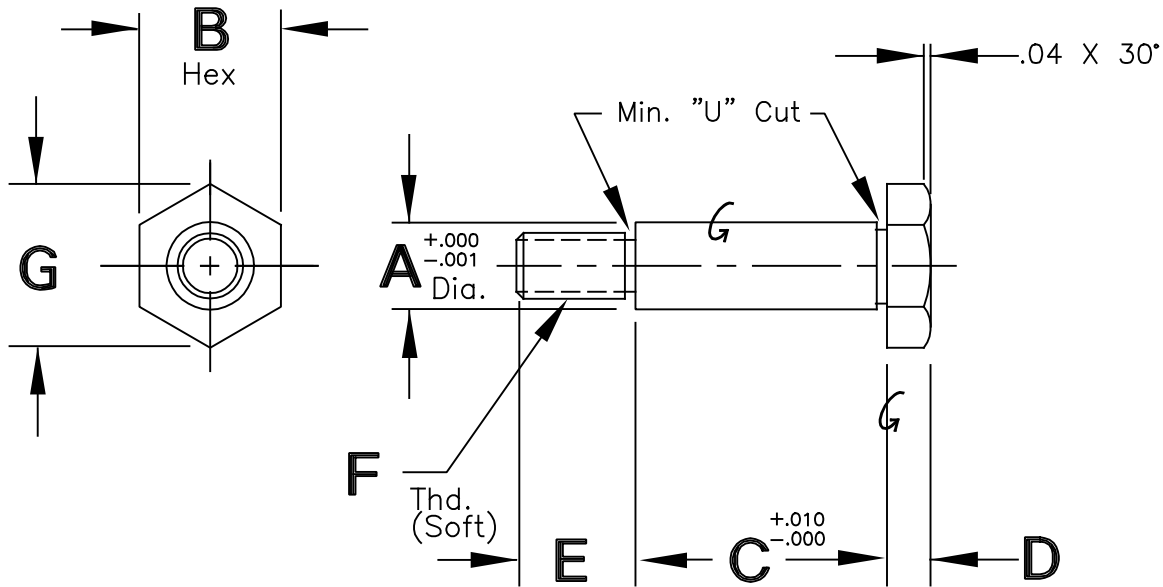
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MHSSH-25-64-25-M18-2.5

Detail Standard Co.

HEX HEAD SHOULDER SCREWS

Type HFSH, HFSA & HFSC
(FINE THREAD)



A Dia.	B Hex	* C Length								* E Length					F	G	CAD FILE NO.
		1.00	1.50	2.00	3.00	4.00	5.00	6.00	D	.56	.94	1.44	1.94	2.44			
.625	.88	X	X	X					.25	X	X				1/2-20	1.01	HFS625
.750	1.00	X	X	X					.25	X	X				5/8-18	1.15	HFS750
.875	1.12	X	X	X	X				.25		X	X			3/4-16	1.30	HFS875
1.000	1.25		X	X	X				.31		X	X			3/4-16	1.44	HFS1000
1.250	1.50		X	X	X	X			.31		X	X			7/8-14	1.73	HFS1250
1.500	2.00			X	X		X		.38			X	X		1 1/8-12	2.31	HFS1500
1.750	2.25				X	X		X	.38			X		X	3/8-12	2.60	HFS1750
2.000	2.50					X	X	X	.50			X		X	1 1/2-12	2.89	HFS2000

Type Material & Heat Treat

HFSH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.

HFSA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.

HFSC 1018 C.R.S.

Model Number Development

Detail Standard Shoulder Screw
HFSH-1.000-2.50-1.00-3/4-16

Hex Head Shoulder Screw

"A" Diameter

"C" Length

"E" Length of Thread

"F" Thread

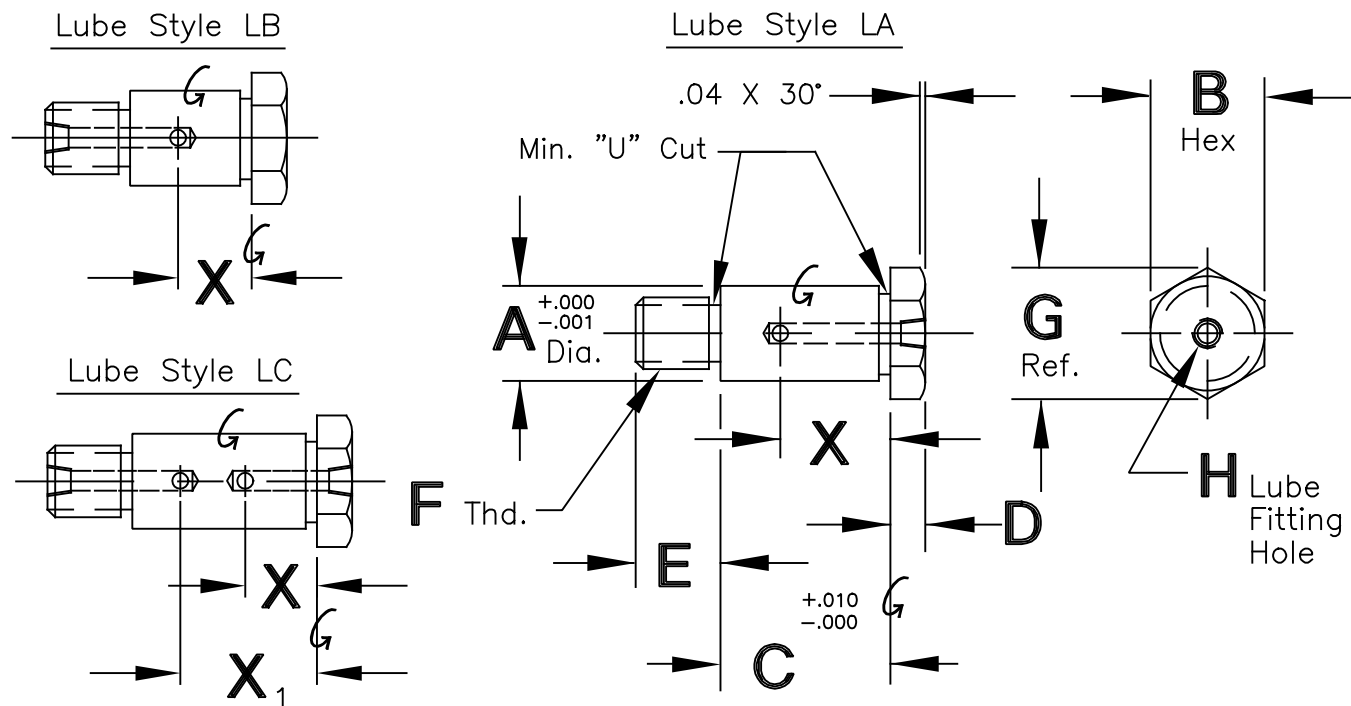
* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MHFSH-25-64-25-M18-1.5

Detail Standard Co.

HEX HEAD SHOULDER SCREWS



Type

Material & Heat Treat

HHSH & HFSH 12L14 C.R.S., Carb., Hdn. & Gr., Rock. "C" 55-60, .03 Min. Case.
 HHSA & HFSA Pre-heat treated Alloy, Rock. "C" 28-32 Uniform Throughout.
 HHSC & HFSC 1018 C.R.S.

Model Number Development

Detail Standard Shoulder Screw

HHSH-1.000-4.00-1.00-3/4-16-LA-2.00-

Type _____
 "A" Diameter _____
 "C" Length _____
 "E" Length of Thread _____
 "F" Thread _____
 Lube Style _____
 "X" Dim. _____
 Additional "X" Dims. _____

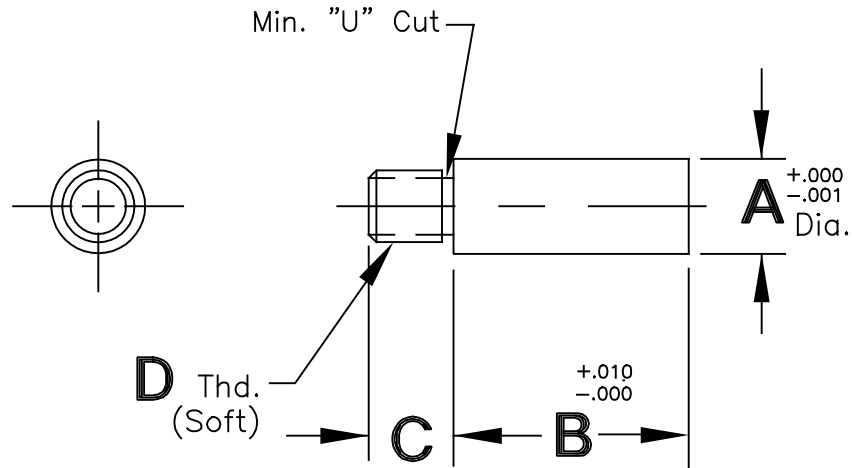
NOTE: All pins with lube holes are special items

To order this product METRIC, use "M" before the model number and millimeters for dimensions.
 Example: MHHSH-25-100-25-M18-2.5-LA-50

Detail Standard Co.

STANDOFF

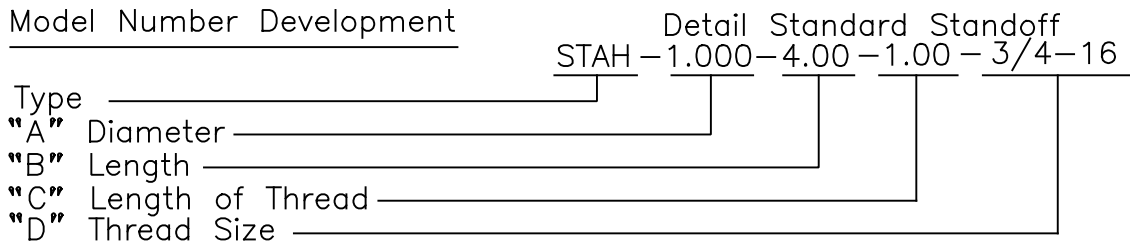
Type STAH, STAA, STAT & STAC



A Dia.	RECOMMENDED D THREAD		A Dia.	RECOMMENDED D THREAD	
	COARSE	FINE		COARSE	FINE
.312	1/4-20	1/4-28	.875	3/4-10	3/4-16
.375	5/16-18	5/16-24	1.000	3/4-10	3/4-16
.438	5/16-18	5/16-24	1.250	7/8-9	7/8-14
.500	3/8-16	3/8-24	1.500	1 1/8-7	1 1/8-12
.625	1/2-13	1/2-20	1.750	1 3/8-6	1 3/8-12
.750	5/8-11	5/8-18	2.000	1 1/2-6	1 1/2-12

Type	Material & Heat Treat
STAH	12L14 C.R.S., Carb., Hdn.& Gr., Rock."C" 55-60, .03 Min. Case.
STAA	Turned, Ground & Polished, Rock."C" 28-32 Uniform Throughout
STAT	1045 Turned, Ground & Polished.
STAC	1018 C.R.S.

Model Number Development



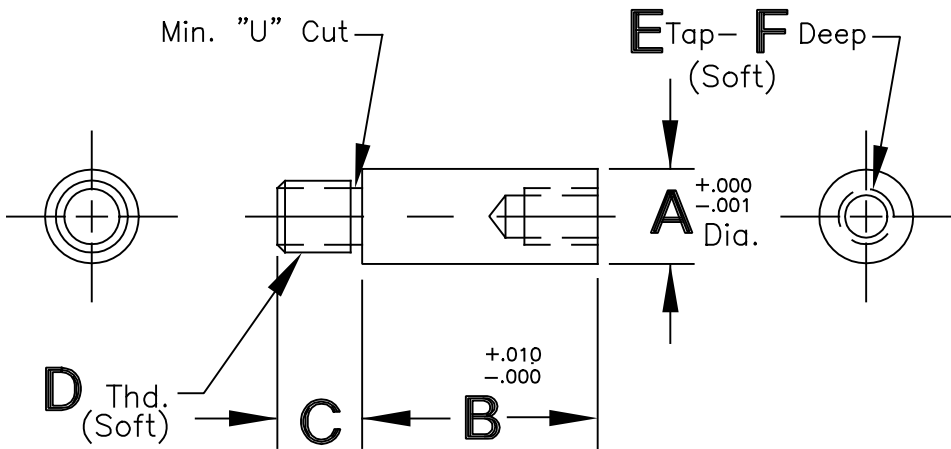
NOTE: All standoffs are "special" items

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSTAH-25-100-25-M18-2.5

Detail Standard Co.

STANDOFF WITH END TAP

Type TTAH, TTAA, TTAT & TTAC



A Dia.	RECOMMENDED D THREAD		RECOMMENDED E THREAD	
	COARSE	FINE	COARSE	FINE
.312	1/4-20	1/4-28	#8-32	#8-36
.375	5/16-18	5/16-24	#10-24	#10-32
.438	5/16-18	5/16-24	#10-24	#10-32
.500	3/8-16	3/8-24	5/16-18	5/16-24
.625	1/2-13	1/2-20	1/4-20	1/4-28
.750	5/8-11	5/8-18	3/8-16	3/8-24
.875	3/4-10	3/4-16	3/8-16	3/8-24
1.000	3/4-10	3/4-16	1/2-13	1/2-20
1.250	7/8-9	7/8-14	1/2-13	1/2-20
1.500	1 1/8-7	1 1/8-12	5/8-11	5/8-18
1.750	1 3/8-6	1 3/8-12	5/8-11	5/8-18
2.000	1 1/2-6	1 1/2-12	3/4-10	3/4-16

Type Material & Heat Treat

TTAH 12L14 C.R.S., Carb., Hdn.& Gr., Rock."C" 55-60, .03 Min. Case.

TTAA Turned, Ground & Polished, Rock."C" 28-32 Uniform Throughout.

TTAT 1045 Turned, Ground & Polished.

TTAC 1018 C.R.S.

Model Number Development

Detail Standard Standoff with End Tap

TTAH-1.000-4.00-1.00-3/4-16-1/2-13-.62

Type	_____
"A" Diameter	_____
"B" Length	_____
"C" Length of Thread	_____
"D" Thread Size	_____
"E" Tap Size	_____
"F" Tap Depth	_____

NOTE: All standoffs are "special" items

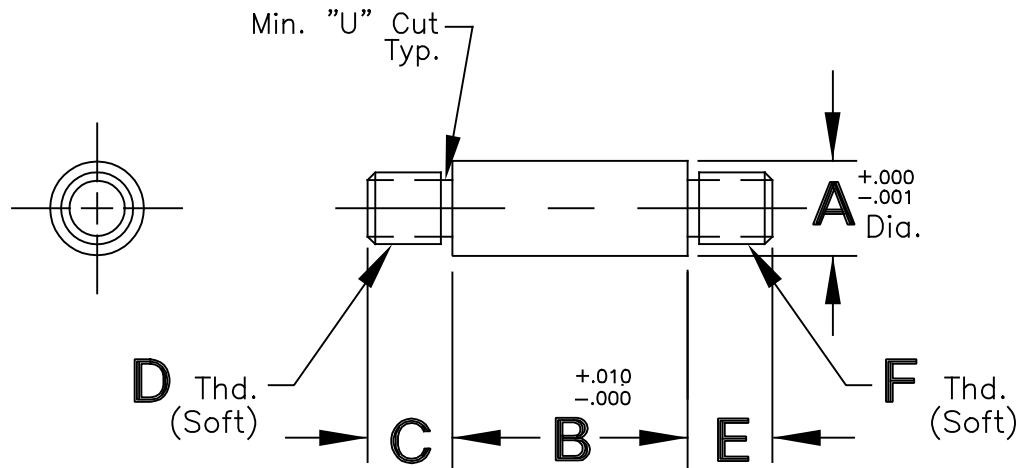
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MTTAH-25-100-25-M18-2.5-M12-1.75-18

Detail Standard Co.

DOUBLE THREADED STANDOFFS

Type DTAH, DTAA, DTAT & DTAC



A Dia.	D THREAD		A Dia.	D THREAD	
	COARSE THREAD	FINE THREAD		COARSE THREAD	FINE THREAD
.312	1/4-20	1/4-28	.875	3/4-10	3/4-16
.375	5/16-18	5/16-24	1.000	3/4-10	3/4-16
.438	5/16-18	5/16-24	1.250	7/8-9	7/8-14
.500	3/8-16	3/8-24	1.500	1 1/8-7	1 1/8-12
.625	1/2-13	1/2-20	1.750	1 3/8-6	1 3/8-12
.750	5/8-11	5/8-18	2.000	1 1/2-6	1 1/2-12

Type	Material & Heat Treat
DTAH	12L14 C.R.S., Carb., Hdn.& Gr., Rock."C" 55-60, .03 Min. Case.
DTAA	Turned, Ground & Polished, Rock."C" 28-32 Uniform Throughout.
DTAT	1045 Turned, Ground & Polished.
DTAC	1018 C.R.S.

Model Number	Development	Detail Standard Standoff
		DTAH - 1.000 - 4.00 - 1.00 - 3/4-16 - 1.25 - 5/8-11
Type		
"A" Diameter		
"B" Length		
"C" Length of Thread		
"D" Thread Size		
"E" Length of Thread		
"F" Thread Size		

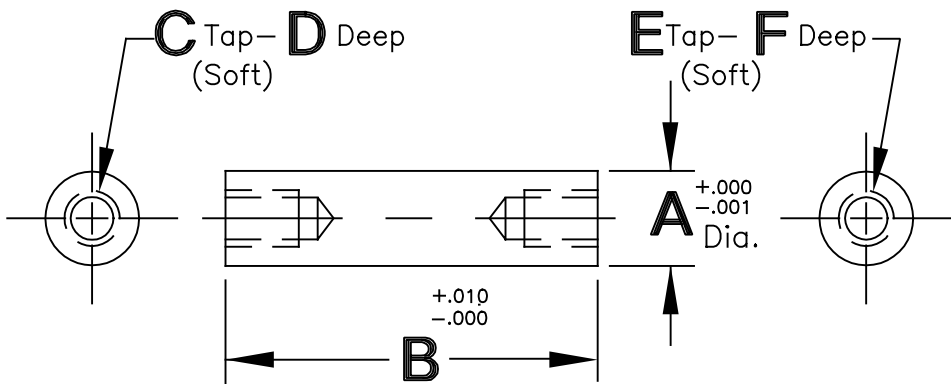
NOTE: All standoffs are "special" items

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MDTAH-25-100-25-M20-2.5-32-M18-2.5

Detail Standard Co.

STANDOFF WITH BOTH ENDS TAPPED

Type ETAH, ETAA, ETAT & ETAC



A Dia.	RECOMMENDED C & E TAP		RECOMMENDED D & F DEPTH
	COARSE	FINE	
.312	#8-32	#8-36	.38
.375	#10-24	#10-32	.38
.438	#10-24	#10-32	.38
.500	5/16-18	5/16-24	.50
.625	1/4-20	1/4-28	.50
.750	3/8-16	3/8-24	.62
.875	3/8-16	3/8-24	.62
1.000	1/2-13	1/2-20	.75
1.250	1/2-13	1/2-20	.75
1.500	5/8-11	5/8-18	1.00
1.750	5/8-11	5/8-18	1.00
2.000	3/4-10	3/4-16	1.25

Type Material & Heat Treat

ETAH 12L14 C.R.S., Carb., Hdn.& Gr., Rock."C" 55-60, .03 Min. Case.

ETAA Turned, Ground & Polished, Rock."C" 28-32 Uniform Throughout.

ETAT 1045 Turned, Ground & Polished.

ETAC 1018 C.R.S.

Model Number Development

Detail Standard Standoff with End Tap

ETAH - 1.000 - 4.00 - 3/4 - 16 - 1.00 - 1/2 - 13 - .62

Type	_____
"A" Diameter	_____
"B" Length	_____
"C" Tap Size	_____
"D" Tap Depth	_____
"E" Tap Size	_____
"F" Tap Depth	_____

NOTE: All standoffs are "special" items

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: METAH-25-100-M20-2.5-25-M12-1.75-18

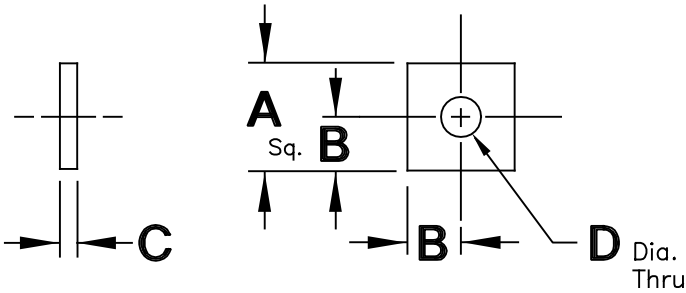
Detail Standard Co.

SECTION E

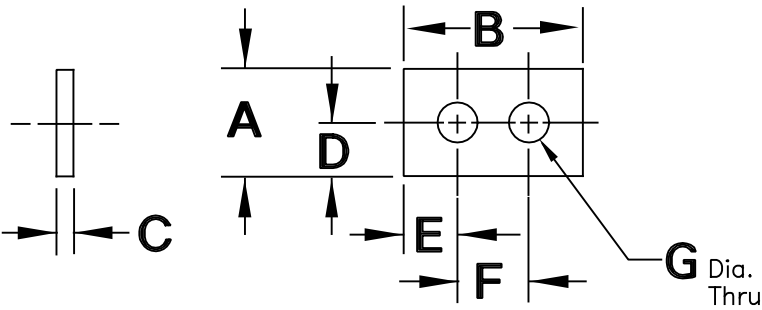
TOOLING & MISC.

Detail Standard Co.

KEEPERS



KEEPER No.	A	B	C	D	CAD FILE NO.
K-1	.50	.25	.12	.22	K1
K-2	.75	.38	.12	.28	K2
K-3	1.00	.50	.12	.34	K3
K-4	.75	.38	.25	.28	K4
K-5	1.00	.50	.25	.34	K5
K-6	1.25	.62	.25	.41	K6
K-7	1.50	.75	.25	.53	K7
K-8	1.00	.50	.25	.41	K8
K-9	1.00	.50	.12	.28	K9

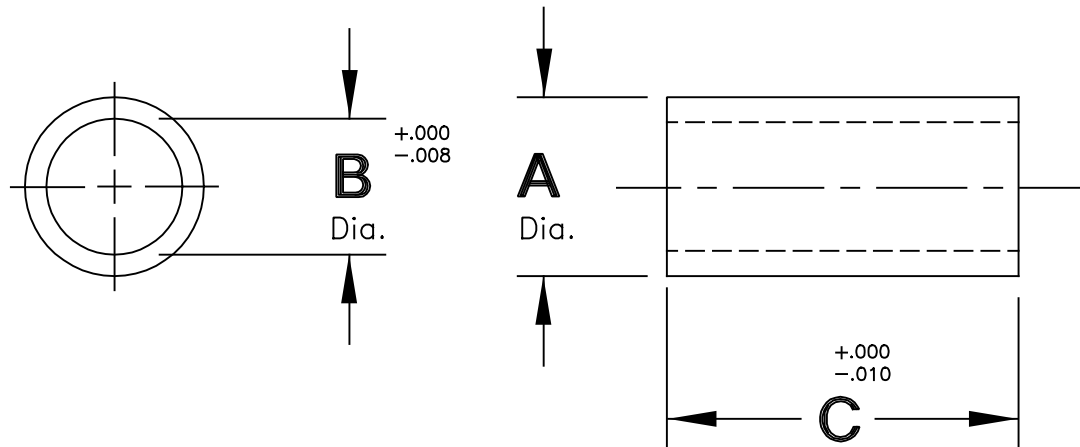


KEEPER No.	A	B	C	D	E	F	G	CAD FILE NO.
2K-1	.75	1.25	.12	.38	.38	.50	.28	2K1
2K-2	1.00	1.50	.12	.50	.38	.75	.34	2K2
2K-3	1.25	2.00	.25	.62	.50	1.00	.41	2K3
2K-4	1.50	2.50	.25	.75	.62	1.25	.53	2K4
2K-5	.75	1.25	.25	.38	.38	.50	.28	2K5
2K-6	1.00	1.50	.25	.50	.38	.75	.34	2K6
2K-7	.75	1.25	.12	.31	.31	.62	.34	2K7
2K-8	1.25	2.00	.25	.44	.50	1.00	.41	2K8
2K-9	1.50	2.50	.25	.50	.50	1.50	.53	2K9
2K-10	.62	1.25	.12	.31	.31	.62	.28	2K10
2K-11	1.00	1.75	.25	.50	.50	.75	.41	2K11
2K-12	1.25	2.00	.25	.82	.44	1.12	.34	2K12
2K-13	1.50	2.50	.25	.50	.50	1.50	.41	2K13
2K-14	.62	1.25	.12	.31	.25	.75	.28	2K14
2K-15	.75	1.25	.12	.38	.25	.75	.28	2K15
2K-16	1.00	1.50	.12	.50	.50	.50	.28	2K16
2K-17	1.00	1.75	.12	.50	.50	.75	.41	2K17

Material: 1018 C.R.S.

Detail Standard Co.

TUBING SPACERS Type CS, SS, & AS



Material:

Type CS – Welded D.O.M. 1020/1026 Steel or Cold Drawn Seamless

Type SS – Stainless Steel Type 304 or 316

Type AS – Aluminum 2024, 3003, 5052, 5086, 6061 or 6063

A Dia.	B Dia.	A Dia.	B Dia.	A Dia.	B Dia.	A Dia.	B Dia.	A Dia.	B Dia.
.38	.209	.88	.500	1.25	.562	1.50	1.260	1.88	1.313
.38	.277	.88	.562	1.25	.687	1.62	.875	1.88	1.562
.50	.232	.88	.635	1.25	.812	1.62	1.000	2.00	1.125
.50	.282	.88	.777	1.25	.906	1.62	1.063	2.00	1.312
.50	.334	1.00	.562	1.25	1.010	1.62	1.281	2.00	1.524
.50	.384	1.00	.640	1.38	.937	1.62	1.555	2.25	1.124
.62	.385	1.00	.760	1.38	1.031	1.75	.875	2.25	1.375
.62	.459	1.00	.902	1.38	1.277	1.75	1.000	2.25	1.562
.62	.527	1.12	.563	1.50	.750	1.75	1.125	2.50	1.000
.75	.482	1.12	.687	1.50	.812	1.75	1.532	2.50	1.250
.75	.510	1.12	.781	1.50	.938	1.88	1.000	2.50	1.375
.75	.634	1.12	1.027	1.50	1.062	1.88	1.125	2.50	1.625

Finish:

N = None

B = Black Oxide (Type CS Only)

A = Anodized (Type AS Only)

Model Number Development

Detail Standard Tubing Spacer

CS – 1.12 – .813 – 3.00 – N

Tubing Spacer – (CS, SS or AS) _____

"A" Dia. (O.D.) _____

"B" Dia. (I.D.) _____

"C" Length _____

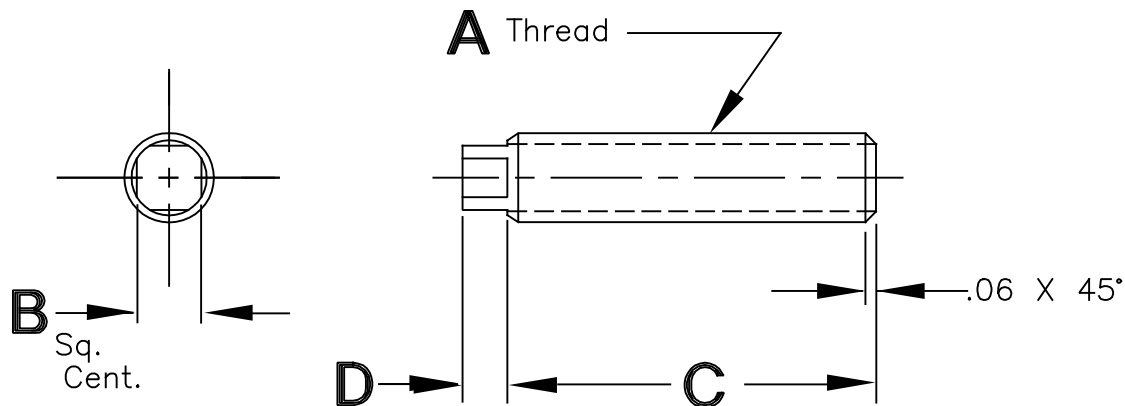
Finish – (N, B or A) _____

Note: Other O.D./I.D. size combinations may be ordered as "special" items.

Detail Standard Co.

THREADED ROD

Type TR



		* C Length											
A Thread	B	1.50	2.00	2.50	3.00	4.00	5.00	6.00	7.00	8.00	D	CAD FILE NO.	
5/16-18	.18	X	X	X	X						.18	TR516	
5/16-24	.18	X	X	X	X						.18	TR516	
3/8-16	.25	X	X	X	X	X					.25	TR38	
3/8-24	.25	X	X	X	X	X					.25	TR38	
7/16-14	.31		X	X	X	X					.25	TR716	
7/16-20	.31		X	X	X	X					.25	TR716	
1/2-13	.38		X	X	X	X	X				.31	TR12	
1/2-20	.38		X	X	X	X	X				.31	TR12	
5/8-11	.50				X	X	X	X			.38	TR58	
5/8-18	.50				X	X	X	X			.38	TR58	
3/4-10	.62				X	X	X	X			.50	TR34	
3/4-16	.62				X	X	X	X			.50	TR34	
1-8	.75					X	X	X	X		.50	TR1	
1-14	.75					X	X	X	X		.50	TR1	
1 1/4-7	1.00					X	X	X	X	X	.50	TR114	
1 1/4-12	1.00					X	X	X	X	X	.50	TR114	

Material: Alloy Steel (Stud Stock) ASTM Spec. A-193

Heat Treat: Brinell 275-310 Stress Relieved

Finish: Black Oxide

Model Number Development

Detail Standard Threaded Rod

TR-5/8-11-4.00

Threaded Rod _____
 "A" Thread _____
 "C" Thread Length _____

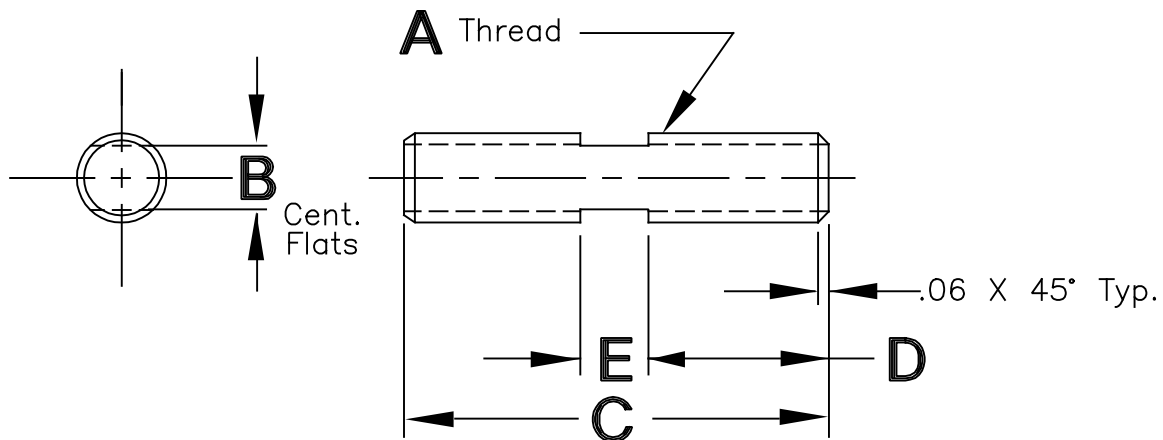
* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MTR-18-2.5-100

Detail Standard Co.

THREADED ROD

Type TRF



		* C Length (Slot Centered)										E	CAD FILE NO.
A Thread	B	1.50	2.00	2.50	3.00	4.00	5.00	6.00	7.00	8.00			
5/16-18	.18	X	X	X	X						.18	TRF516	
5/16-24	.18	X	X	X	X						.18	TRF516	
3/8-16	.25	X	X	X	X	X					.25	TRF38	
3/8-24	.25	X	X	X	X	X					.25	TRF38	
7/16-14	.31		X	X	X	X					.25	TRF716	
7/16-20	.31		X	X	X	X					.25	TRF716	
1/2-13	.38		X	X	X	X	X				.31	TRF12	
1/2-20	.38		X	X	X	X	X				.31	TRF12	
5/8-11	.50				X	X	X	X			.38	TRF58	
5/8-18	.50				X	X	X	X			.38	TRF58	
3/4-10	.62				X	X	X	X			.50	TRF34	
3/4-16	.62				X	X	X	X			.50	TRF34	
1-8	.75					X	X	X	X		.50	TRF1	
1-14	.75					X	X	X	X		.50	TRF1	
1 1/4-7	1.00					X	X	X	X	X	.50	TRF114	
1 1/4-12	1.00					X	X	X	X	X	.50	TRF114	

Material: Alloy Steel (Stud Stock) ASTM Spec. A-193

Heat Treat: Brinell 275-310 Stress Relieved

Finish: Black Oxide

Model Number Development

Detail Standard Threaded Rod
TRF-5/8-11-4.00-2.31

Threaded Rod _____
 "A" Thread _____
 "C" Thread Length _____
 "D" Dimension (Slot will be centered if not specified) _____

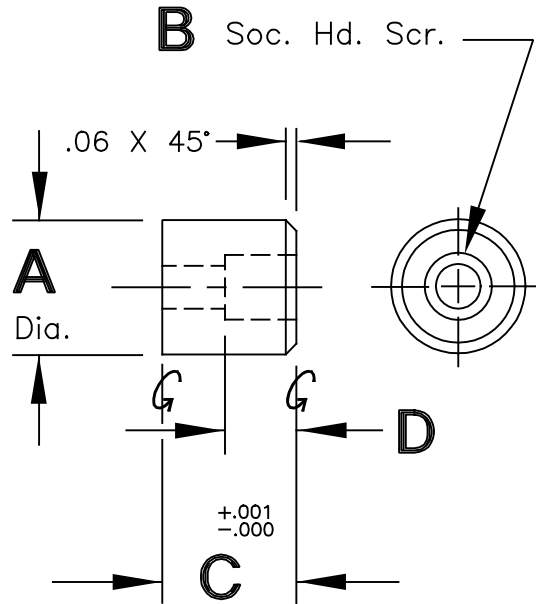
* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MTRF-M18-2.5-100-58

Detail Standard Co.

STOP PADS

Type SP



A Dia.	B	* C Length								D	CAD FILE NO.
		.375	.500	.625	.750	1.000	1.250	1.500			
.50	No.10	X	X						.27		SP150
.62	No.10	X	X	X	X	X	X	X	.27		SP162
.62	1/4		X	X	X	X	X	X	.40		SP12562
.75	1/4		X	X	X	X	X	X	.40		SP175
.88	1/4	X	X						.28		SP12588
.88	5/16			X	X	X	X	X	.46		SP188
1.00	5/16				X	X	X	X	.46		SP1000
1.25	3/8				X	X	X	X	.56		SP1125
1.50	1/2					X	X	X	.80		SP1500
1.62	1/2					X	X	X	.80		SP1625

Material: 12L14 C.R.S.

Heat Treat: Carb. & Hdn., Rock. "C" 55-60, .03 Min. Case.

Finish: Black Oxide

Model Number Development

Detail Standard Stop Pad
SP-.62-.625-.40-.25

Stop Pad _____
 "A" Diameter _____
 "C" Length _____
 "D" Depth _____
 "B" Screw Size _____

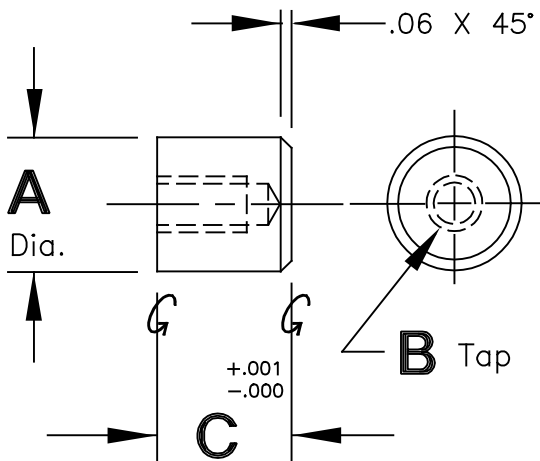
*
 NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MSP-16-16.00-10-6

Detail Standard Co.

STOP PADS

Type TP



A Dia.	B Tap	* C Length						CAD FILE NO.
		.500	.625	.750	1.000	1.250	1.500	
.50	#10-32 X 1/4	X	X	X				TP50
.62	1/4-20 X 3/8		X	X	X			TP62
.75	5/16-18 X 1/2			X	X	X		TP75
.88	1/4-20 X 1/2			X	X	X		TP88
.88	5/16-18 X 1/2			X	X	X		TP88
1.00	5/16-18 X 1/2				X	X	X	TP100
1.25	3/8-16 X 5/8				X	X	X	TP125
1.50	1/2-13 X 3/4				X	X	X	TP150
1.62	1/2-13 X 3/4				X	X	X	TP162

Material: 12L14 C.R.S.
 Heat Treat: Carb. & Hdn., Rock. "C" 55-60, .03 Min. Case. (Threads Soft)
 Finish: Black Oxide

Model Number Development

Detail Standard Stop Pad
 TP-.62-.750-1/4-20 x 3/8

Stop Pad _____
 "A" Diameter _____
 "C" Length _____
 "B" Tap x Depth _____

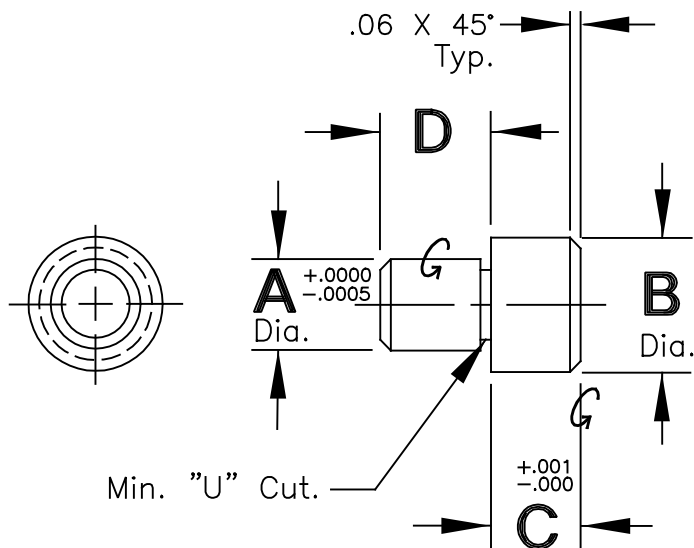
* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MTP-16-20-M6-1x10

Detail Standard Co.

REST PADS

Type RP
(Press Fit)



		* C Length							D	CAD FILE NO.
A Dia.	B Dia.	.250	.375	.500	.625	.750	1.000	1.250		
.251	.50	X	X	X					.47	RP50
.376	.62	X	X	X	X				.60	RP62
.501	.75		X	X	X	X			.60	RP75
.626	1.00		X	X	X	X			.72	RP100
.751	1.25			X		X	X		.85	RP125
1.001	1.50					X	X	X	.98	RP150

Material: 12L14 C.R.S.
Heat Treat: Carb. & Hdn., Rock. "C" 55-60, .03 Min. Case.
Finish: Black Oxide

Model Number Development

Detail Standard Rest Pad

RP-.751-.750

Rest Pad _____

"A" Diameter _____

"C" Length _____

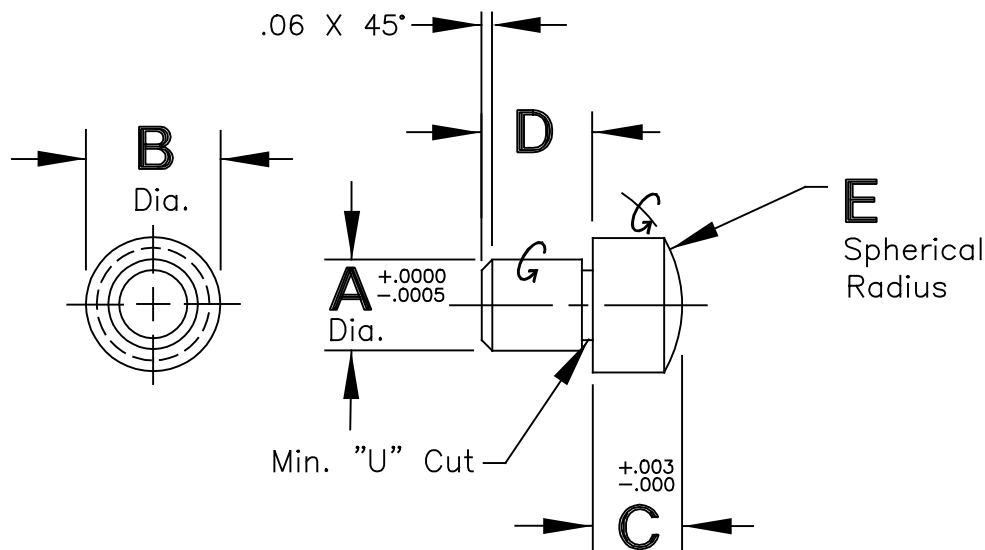
* NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MRP-20.00-20.00

Detail Standard Co.

REST PADS

Type RPS
(Press Fit)



		* C Length									
A Dia.	B Dia.	.250	.375	.500	.625	.750	1.000	1.250	D	E	CAD FILE NO.
.251	.50	X	X	X					.47	.50	RPS50
.376	.62	X	X	X	X				.60	.62	RPS62
.501	.75		X	X	X	X			.60	.75	RPS75
.626	1.00		X	X	X	X			.72	1.00	RPS100
.751	1.25			X		X	X		.85	1.25	RPS125
1.001	1.50					X	X	X	.98	1.50	RPS150

Material: 12L14 C.R.S.
Heat Treat: Carb. & Hdn., Rock. "C" 55–60, .03 Min. Case.
Finish: Black Oxide

Model Number Development Detail Standard Rest Pad
RPS—.751—.750

Rest Pad _____
"A" Diameter _____
"C" Length _____

*
NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

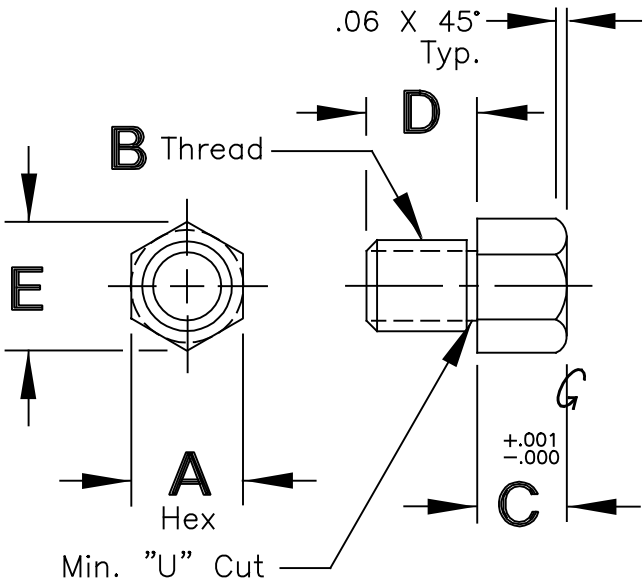
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MRPS–20.00–20.00

Detail Standard Co.

REST PADS

Type HP
(Hex Screw)

Type HPF
(Hex Screw)
(Fine Thread)



		* C Length									CAD FILE NO.
A Hex	B Thread	.250	.375	.500	.625	.750	1.000	1.250	D	E	
.38	1/4-20	X	X	X	X				.35	.43	HP38
.50	3/8-16		X	X	X	X			.47	.58	HP50
.62	1/2-13		X	X	X	X			.60	.72	HP62
.75	1/2-13			X		X	X		.72	.86	HP75
1.00	5/8-11					X	X	X	.98	1.15	HP100
.38	1/4-28	X	X	X	X				.35	.43	HP38
.50	3/8-24		X	X	X	X			.47	.58	HP50
.62	1/2-20		X	X	X	X			.60	.72	HP62
.75	1/2-20			X		X	X		.72	.86	HP75
1.00	5/8-18					X	X	X	.98	1.15	HP100

Material: 12L14 C.R.S.
Heat Treat: Carb. & Hdn., Rock. "C" 55-60, .03 Min. Case. (Threads Soft)
Finish: Black Oxide
Model Number Development

Detail Standard Rest Pad
HP-.75-.750(-.50-3/8-16)

Rest Pad Type _____
"A" Hex _____
"C" Length _____
"D" Length (if different than listed in chart) _____
"B" Thread (if different than listed in chart) _____

*
NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

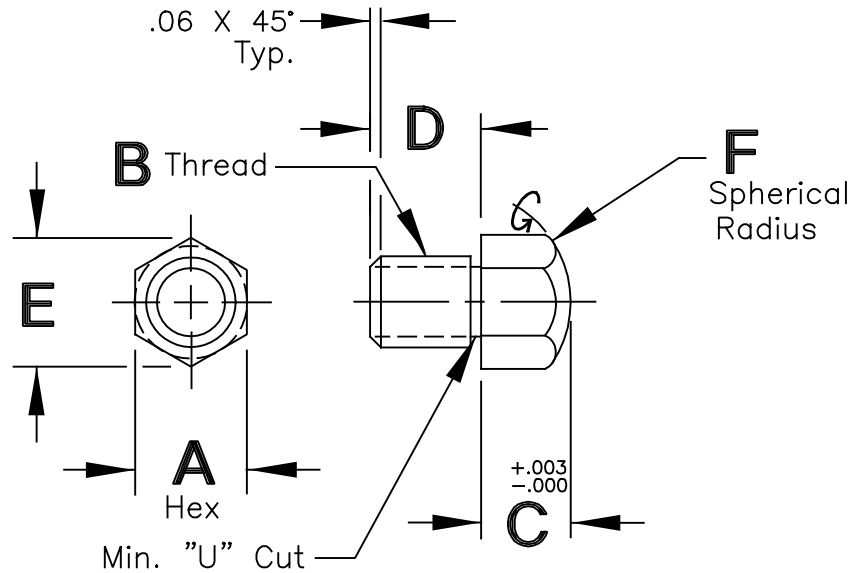
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MHP-20-20.00-12-M10-1.5

Detail Standard Co.

REST PADS

Type HPS
(Hex Screw)

Type HPFS
(Hex Screw)
(Fine Thread)



		* C Length										CAD FILE NO.
A Hex	B Thread	.250	.375	.500	.625	.750	1.000	1.250	D	E	F	
.38	1/4-20	X	X	X	X				.35	.43	.38	HPS38
.50	3/8-16		X	X	X	X			.47	.58	.50	HPS50
.62	1/2-13		X	X	X	X			.60	.72	.62	HPS62
.75	1/2-13			X		X	X		.72	.86	2.00	HPS75
1.00	5/8-11					X	X	X	.98	1.15	2.00	HPS100
.38	1/4-28	X	X	X	X				.35	.43	.38	HPS38
.50	3/8-24		X	X	X	X			.47	.58	.50	HPS50
.62	1/2-20		X	X	X	X			.60	.72	.62	HPS62
.75	1/2-20			X		X	X		.72	.86	2.00	HPS75
1.00	5/8-18					X	X	X	.98	1.15	2.00	HPS100

Material: 12L14 C.R.S.

Heat Treat: Carb. & Hdn., Rock. "C" 55-60, .03 Min. Case. (Threads Soft)

Finish: Black Oxide

Model Number Development

Detail Standard Rest Pad

HPS-.75-.750(-.50-3/8-16)

Rest Pad Type

"A" Hex

"C" Length

"D" Length (if different than listed in chart)

"B" Thread (if different than listed in chart)

*

NOTE: Lengths indicated by "X" in chart above are standard. Other lengths may be ordered as "special" items.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

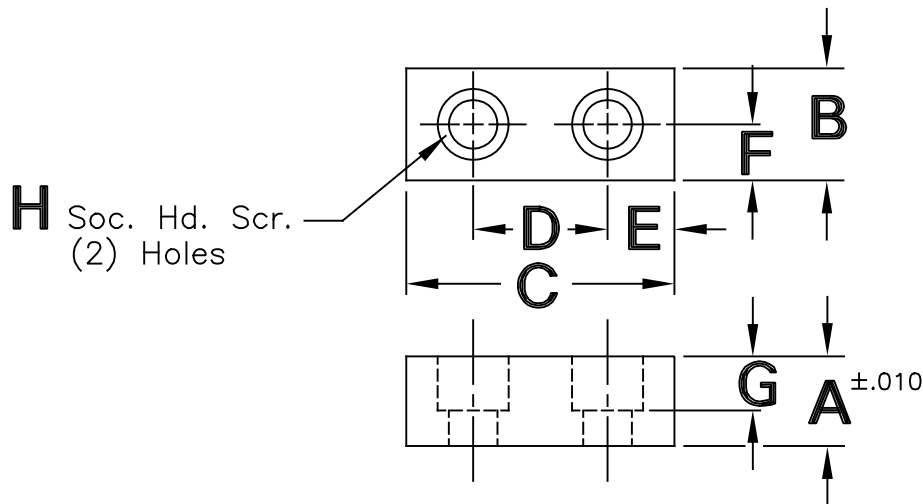
Example: MHPS-20-20.00-12-M10-1.5

Detail Standard Co.

STOP BLOCK

Type SBS

SEE PAGES F-2 & F-7
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H	CAD FILE NO.
SBS-101	.50	.62	1.25	.625	.31	.31	.36	.25	SBS101
SBS-102	.50	.62	1.50	.750	.38	.31	.36	.25	SBS102
SBS-103	.62	.62	1.50	.750	.38	.31	.44	.31	SBS103
SBS-104	.62	.62	2.00	1.250	.38	.31	.44	.31	SBS104
SBS-105	.62	.75	1.50	.750	.38	.38	.44	.31	SBS105
SBS-106	.62	1.00	1.62	1.000	.31	.50	.44	.31	SBS106
SBS-107	.62	1.00	2.38	1.625	.38	.50	.44	.38	SBS107
SBS-108	.75	.75	1.50	.750	.38	.38	.52	.31	SBS108
SBS-109	.75	1.00	2.00	1.000	.50	.50	.56	.38	SBS109
SBS-110	.75	1.00	2.38	1.625	.38	.50	.56	.38	SBS110
SBS-111	.75	1.00	6.00	4.000	1.00	.50	.56	.38	SBS111
SBS-112	.75	1.25	3.00	2.000	.50	.62	.56	.38	SBS112
SBS-113	1.00	1.00	1.81	1.187	.31	.50	.52	.31	SBS113
SBS-114	1.00	1.50	3.50	2.250	.62	.75	.62	.38	SBS114
SBS-115	1.25	1.25	2.18	1.437	.38	.62	.62	.38	SBS115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case

Finish: Black Oxide

Model Number Development

(For Special Sizes)

Stop Block

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Dimension

"G" Dimension

"H" Soc. Hd. Scr.

Detail Standard Stop Block

SBS-.62-1.00-2.38-1.625-.38-.50-.44-.38

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

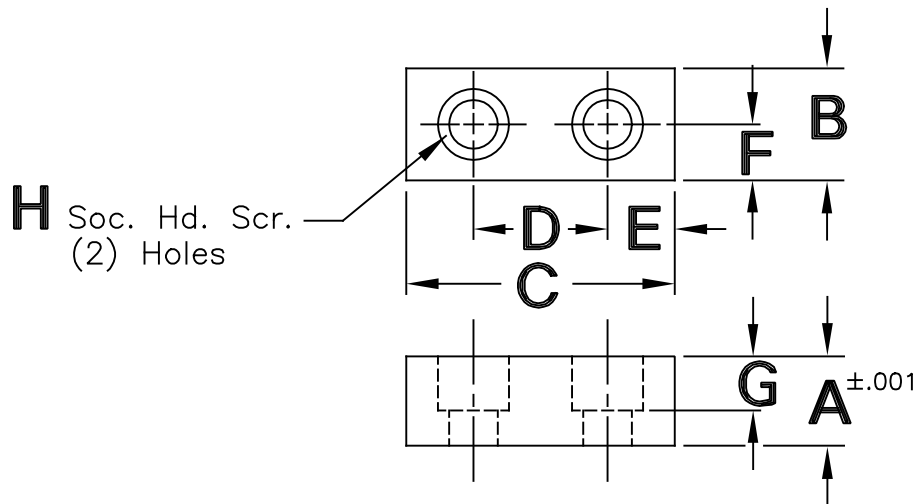
Example: MSBS-18-25-60-20-20-12-11-10

Detail Standard Co.

STOP BLOCK - PRECISION HEIGHT

SEE PAGES F-2 & F-7
FOR SHIMS

Type SBSP



Part No.	A	B	C	D	E	F	G	H	CAD FILE NO.
SBSP-101	.500	.62	1.25	.625	.31	.31	.36	.25	SBS101
SBSP-102	.500	.62	1.50	.750	.38	.31	.36	.25	SBS102
SBSP-103	.625	.62	1.50	.750	.38	.31	.44	.31	SBS103
SBSP-104	.625	.62	2.00	1.250	.38	.31	.44	.31	SBS104
SBSP-105	.625	.75	1.50	.750	.38	.38	.44	.31	SBS105
SBSP-106	.625	1.00	1.62	1.000	.31	.50	.44	.31	SBS106
SBSP-107	.625	1.00	2.38	1.625	.38	.50	.44	.38	SBS107
SBSP-108	.750	.75	1.50	.750	.38	.38	.52	.31	SBS108
SBSP-109	.750	1.00	2.00	1.000	.50	.50	.56	.38	SBS109
SBSP-110	.750	1.00	2.38	1.625	.38	.50	.56	.38	SBS110
SBSP-111	.750	1.00	6.00	4.000	1.00	.50	.56	.38	SBS111
SBSP-112	.750	1.25	3.00	2.000	.50	.62	.56	.38	SBS112
SBSP-113	1.000	1.00	1.81	1.187	.31	.50	.52	.31	SBS113
SBSP-114	1.000	1.50	3.50	2.250	.62	.75	.62	.38	SBS114
SBSP-115	1.250	1.25	2.18	1.437	.38	.62	.62	.38	SBS115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case

Finish: Black Oxide

Model Number Development

(For Special Sizes)

Stop Block _____
 "A" Dimension _____
 "B" Dimension _____
 "C" Dimension _____
 "D" Dimension _____
 "E" Dimension _____
 "F" Dimension _____
 "G" Dimension _____
 "H" Soc. Hd. Scr. _____

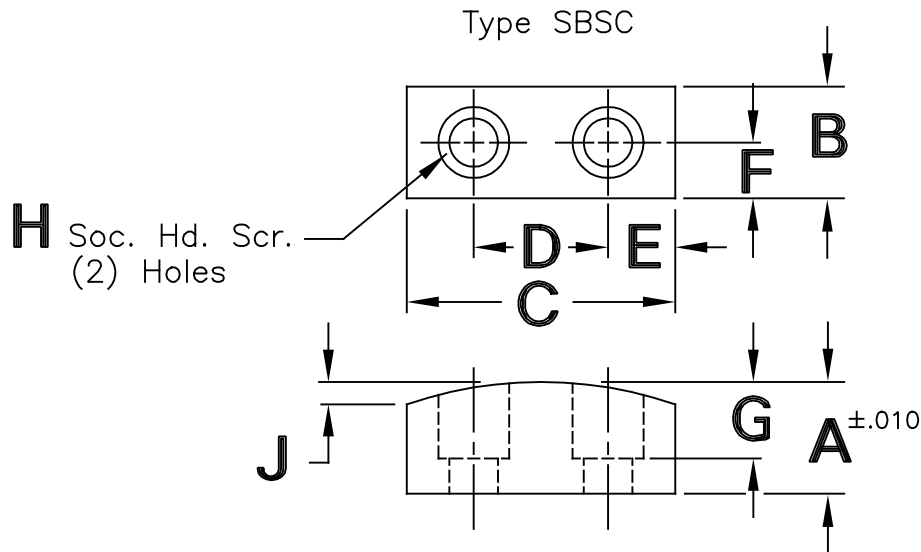
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MSBSP-18-25-60-20-20-12-10-10

Detail Standard Co.

CROWNED STOP BLOCK

SEE PAGES F-2 & F-7
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H	J	CAD FILE NO.
SBSC-101	.50	.62	1.50	.750	.38	.31	.38	.25	.06	SBSC101
SBSC-102	.62	.62	2.00	1.250	.38	.31	.50	.31	.06	SBSC102
SBSC-103	.75	.62	1.25	.625	.31	.31	.42	.25	.06	SBSC103
SBSC-104	.75	1.00	2.00	1.120	.44	.50	.57	.31	.12	SBSC104
SBSC-105	.75	2.50	2.00	1.120	.44	1.25	.57	.31	.12	SBSC105
SBSC-106	.88	.62	1.50	.750	.38	.31	.50	.31	.06	SBSC106
SBSC-107	.88	.62	2.00	1.250	.38	.31	.56	.31	.12	SBSC107
SBSC-108	.88	1.00	1.62	1.000	.31	.50	.50	.31	.06	SBSC108
SBSC-109	.88	1.00	2.38	1.625	.38	.50	.56	.38	.12	SBSC109
SBSC-110	1.00	.75	1.50	.750	.38	.38	.58	.31	.06	SBSC110
SBSC-111	1.00	1.00	2.00	1.000	.50	.50	.68	.38	.12	SBSC111
SBSC-112	1.00	1.00	2.38	1.625	.38	.50	.68	.38	.12	SBSC112
SBSC-113	1.25	1.00	1.81	1.187	.31	.50	.64	.31	.12	SBSC113
SBSC-114	1.25	1.25	2.18	1.437	.38	.62	.75	.38	.12	SBSC114
SBSC-115	1.50	1.25	2.18	1.437	.38	.62	.75	.38	.12	SBSC115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case

Finish: Black Oxide

Model Number Development

(For Special Sizes)

Detail Standard Crowned Stop Block

SBSC-.62-1.00-2.38-1.625-.38-.50-.44-.38-.12

Crowned Stop Block

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Dimension

"G" Dimension

"H" Soc. Hd. Scr.

"J" Dimension

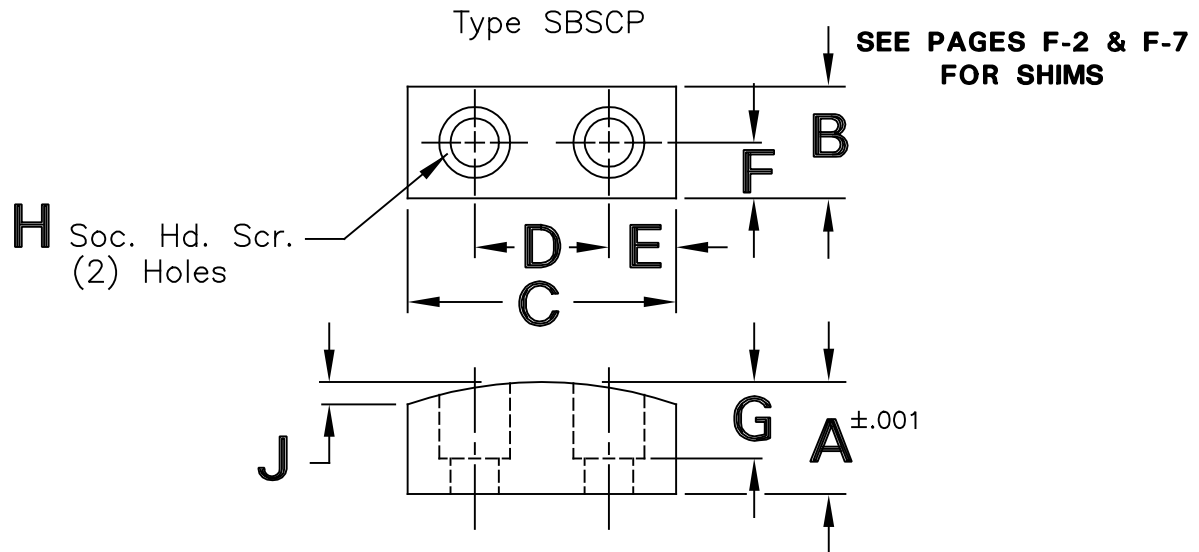
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MSBSC-18-25-60-20-20-12-10-10-3

Detail Standard Co.

CROWNED STOP BLOCK - PRECISION HEIGHT



Part No.	A	B	C	D	E	F	G	H	J	CAD FILE NO.
SBSCP-101	.500	.62	1.50	.750	.38	.31	.38	.25	.06	SBSC101
SBSCP-102	.625	.62	2.00	1.250	.38	.31	.50	.31	.06	SBSC102
SBSCP-103	.750	.62	1.25	.625	.31	.31	.42	.25	.06	SBSC103
SBSCP-104	.750	1.00	2.00	1.120	.44	.50	.57	.31	.12	SBSC104
SBSCP-105	.750	2.50	2.00	1.120	.44	1.25	.57	.31	.12	SBSC105
SBSCP-106	.875	.62	1.50	.750	.38	.31	.50	.31	.06	SBSC106
SBSCP-107	.875	.62	2.00	1.250	.38	.31	.56	.31	.12	SBSC107
SBSCP-108	.875	1.00	1.62	1.000	.31	.50	.50	.31	.06	SBSC108
SBSCP-109	.875	1.00	2.38	1.625	.38	.50	.56	.38	.12	SBSC109
SBSCP-110	1.000	.75	1.50	.750	.38	.38	.58	.31	.06	SBSC110
SBSCP-111	1.000	1.00	2.00	1.000	.50	.50	.68	.38	.12	SBSC111
SBSCP-112	1.000	1.00	2.38	1.625	.38	.50	.68	.38	.12	SBSC112
SBSCP-113	1.250	1.00	1.81	1.187	.31	.50	.64	.31	.12	SBSC113
SBSCP-114	1.250	1.25	2.18	1.437	.38	.62	.75	.38	.12	SBSC114
SBSCP-115	1.500	1.25	2.18	1.437	.38	.62	.75	.38	.12	SBSC115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case

Finish: Black Oxide

Model Number Development Detail Standard Crowned Stop Block

(For Special Sizes) SBSCP-.625-1.00-2.38-1.625-.38-.50-.44-.38-.12

Crowned Stop Block _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Dimension _____

"E" Dimension _____

"F" Dimension _____

"G" Dimension _____

"H" Soc. Hd. Scr. _____

"J" Dimension _____

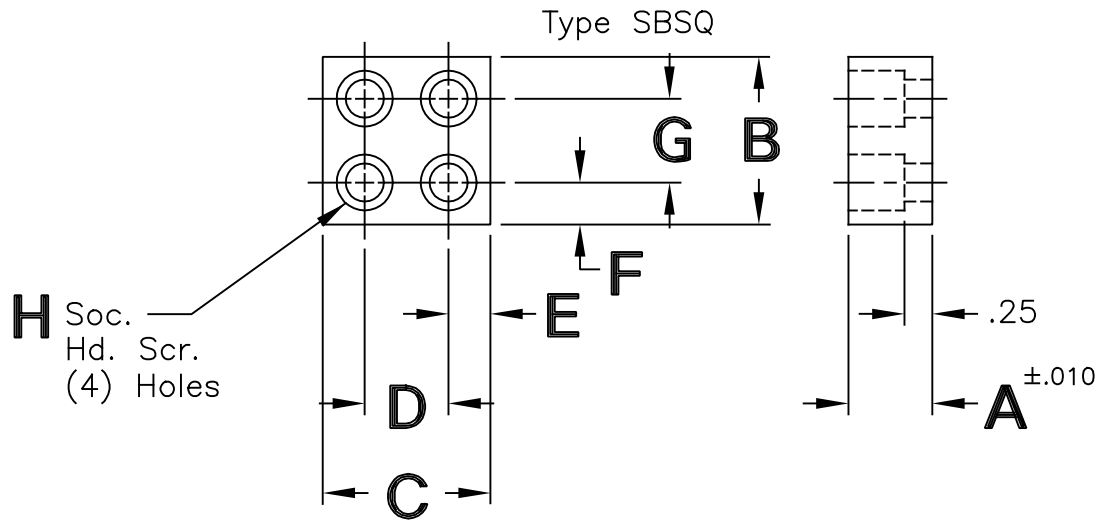
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSBSCP-18-25-60-20-20-12-10-10-3

Detail Standard Co.

STOP BLOCK FOUR HOLES

SEE PAGE F-5
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H
SBSQ-101	.750	1.50	1.50	.750	.38	.38	.750	.31
SBSQ-102	.750	1.50	2.00	1.250	.38	.38	.750	.31
SBSQ-103	.750	2.00	2.25	1.250	.50	.50	1.000	.31
SBSQ-104	.750	2.00	3.00	2.000	.50	.50	1.000	.31
SBSQ-105	.750	2.00	3.00	2.250	.38	.38	1.250	.31
SBSQ-106	.750	2.00	3.38	2.625	.38	.50	1.000	.38
SBSQ-107	.750	2.00	3.50	2.000	.75	.56	.875	.31
SBSQ-108	.750	2.25	2.25	1.250	.50	.50	1.250	.31
SBSQ-109	.750	2.25	3.25	2.500	.38	.38	1.500	.38
SBSQ-110	1.000	2.00	2.25	1.250	.50	.50	1.000	.31
SBSQ-111	1.000	2.00	3.00	2.000	.50	.50	1.000	.31
SBSQ-112	1.000	2.00	3.00	2.250	.38	.38	1.250	.31
SBSQ-113	1.000	2.00	3.50	2.000	.75	.56	.875	.31
SBSQ-114	1.000	2.25	2.25	1.250	.50	.50	1.250	.31
SBSQ-115	1.000	2.25	3.25	2.500	.38	.38	1.500	.38

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn., Rock "C" 56-60, .06 Min. Case

Finish: Black Oxide

Model Number Development (For Special Sizes)

Detail Standard Stop Block

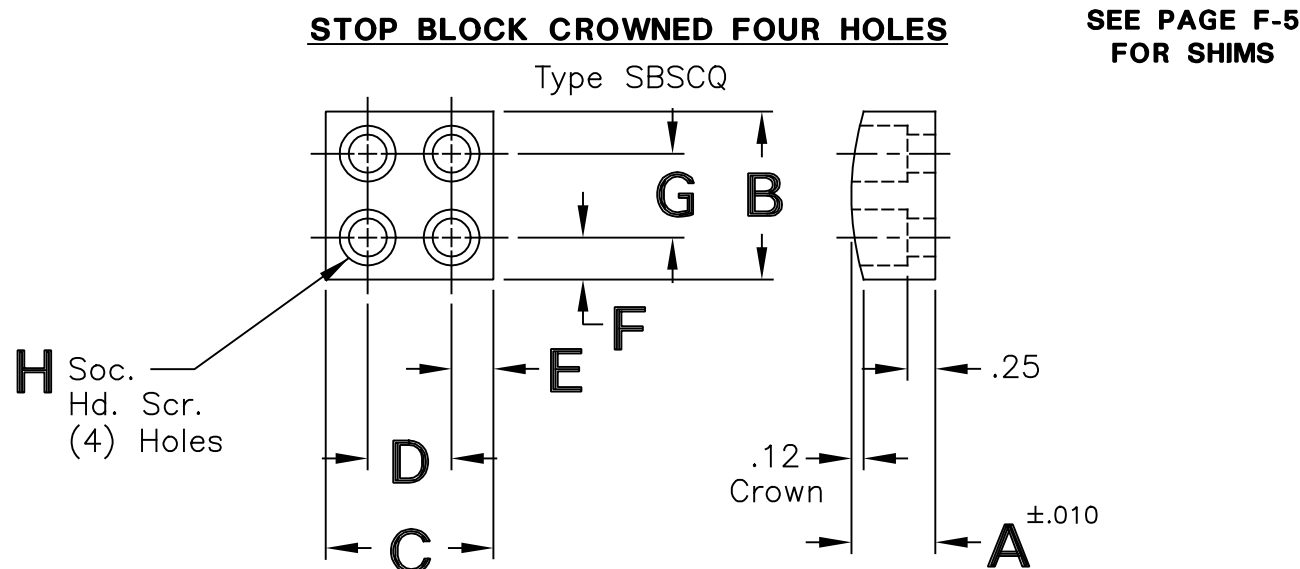
	SBSQ-1.00-2.00-2.38-1.375-.50-.50-1.000-.25
Stop Block Four Holes	
"A" Dimension	
"B" Dimension	
"C" Dimension	
"D" Dimension	
"E" Dimension	
"F" Dimension	
"G" Dimension	
"H" Screw Size	

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special items," using Model Number Development format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MSBSQ-25-50-60-34-13-10-30-6

Detail Standard Co.



Part No.	A	B	C	D	E	F	G	H
SBSCQ-101	.750	1.50	1.50	.750	.38	.38	.750	.31
SBSCQ-102	.750	1.50	2.00	1.250	.38	.38	.750	.31
SBSCQ-103	.750	2.00	2.25	1.250	.50	.50	1.000	.31
SBSCQ-104	.750	2.00	3.00	2.000	.50	.50	1.000	.31
SBSCQ-105	.750	2.00	3.00	2.250	.38	.38	1.250	.31
SBSCQ-106	.750	2.00	3.38	2.625	.38	.50	1.000	.38
SBSCQ-107	.750	2.00	3.50	2.000	.75	.56	.875	.31
SBSCQ-108	.750	2.25	2.25	1.250	.50	.50	1.250	.31
SBSCQ-109	.750	2.25	3.25	2.500	.38	.38	1.500	.38
SBSCQ-110	1.000	2.00	2.25	1.250	.50	.50	1.000	.31
SBSCQ-111	1.000	2.00	3.00	2.000	.50	.50	1.000	.31
SBSCQ-112	1.000	2.00	3.00	2.250	.38	.38	1.250	.31
SBSCQ-113	1.000	2.00	3.50	2.000	.75	.56	.875	.31
SBSCQ-114	1.000	2.25	2.25	1.250	.50	.50	1.250	.31
SBSCQ-115	1.000	2.25	3.25	2.500	.38	.38	1.500	.38

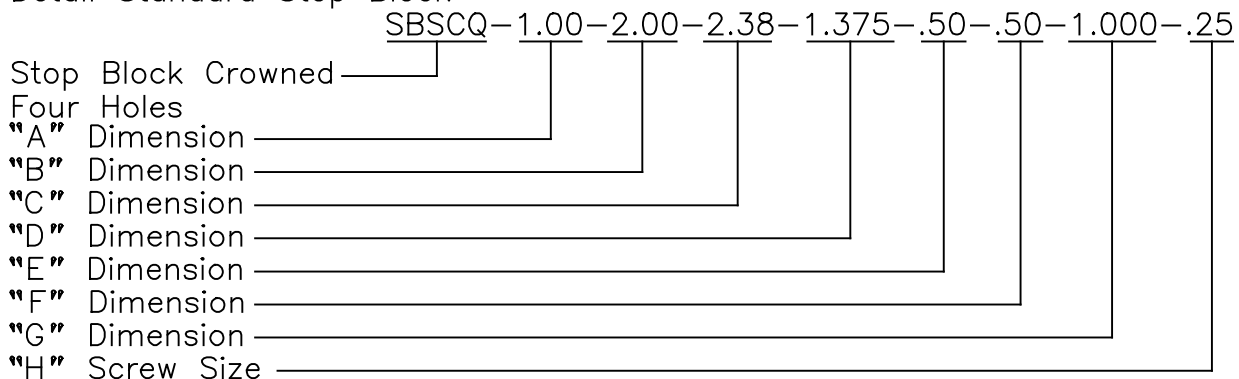
Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn., Rock "C" 56-60, .06 Min. Case

Finish: Black Oxide

Model Number Development (For Special Sizes)

Detail Standard Stop Block



NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special items," using Model Number Development format.

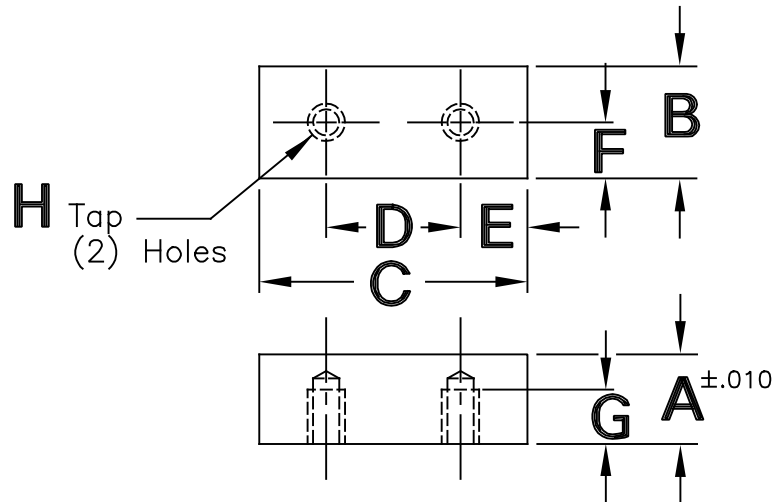
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSBSCQ-25-50-60-34-13-10-30-6

Detail Standard Co.

TAPPED STOP BLOCK

Type SBT

SEE PAGES F-2 & F-7
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H	CAD FILE NO.
SBT-101	.50	.62	1.25	.625	.31	.31	THRU	1/4-20	SBT101
SBT-102	.62	.62	1.50	.750	.38	.31	.38	5/16-18	SBT102
SBT-103	.62	.62	2.00	1.250	.38	.31	.38	5/16-18	SBT103
SBT-104	.62	1.00	1.62	1.000	.31	.50	.38	5/16-18	SBT104
SBT-105	.62	1.00	2.38	1.625	.38	.50	THRU	3/8-16	SBT105
SBT-106	.75	.75	1.50	.750	.38	.38	.44	5/16-18	SBT106
SBT-107	.75	1.00	2.00	1.000	.50	.50	THRU	3/8-16	SBT107
SBT-108	.75	1.00	2.00	1.120	.44	.50	THRU	5/16-18	SBT108
SBT-109	.75	1.00	2.38	1.625	.38	.50	.44	3/8-16	SBT109
SBT-110	.75	2.50	2.00	1.120	.44	1.25	THRU	5/16-18	SBT110
SBT-111	.88	1.00	2.38	1.625	.38	.50	.56	3/8-16	SBT111
SBT-112	1.00	.75	1.50	.750	.38	.38	.50	5/16-18	SBT112
SBT-113	1.00	1.00	1.81	1.187	.31	.50	.50	5/16-18	SBT113
SBT-114	1.25	1.00	1.81	1.187	.31	.50	.50	5/16-18	SBT114
SBT-115	1.25	1.25	2.18	1.437	.38	.62	.62	3/8-16	SBT115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case, (Threads Soft)

Finish: Black Oxide

Model Number Development

(For Special Sizes)

Tapped Stop Block

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Dimension

"G" Dimension

"H" Tap

Detail Standard Tapped Stop Block

SBT-.62-1.00-2.38-1.625-.38-.50-.44-3/8-16

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

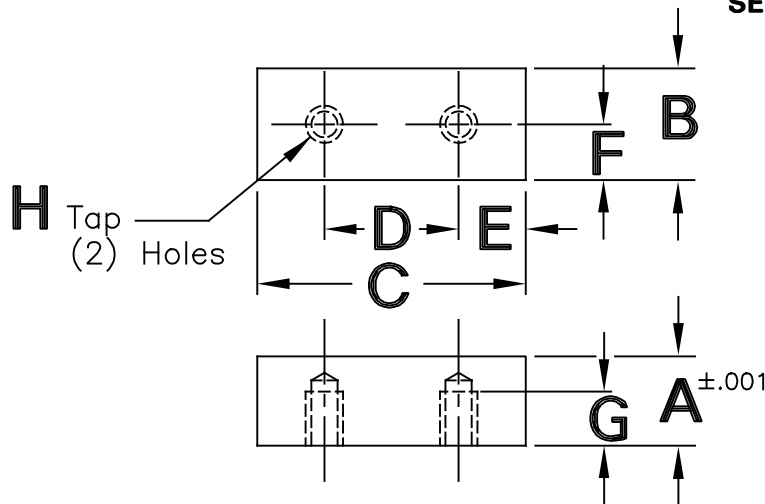
Example: MSBT-18-25-60-34-13-12-10-M10x1.5

Detail Standard Co.

TAPPED STOP BLOCK - PRECISION HEIGHT

Type SBTP

SEE PAGES F-2 & F-7
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H	CAD FILE NO.
SBTP-101	.50	.62	1.25	.625	.31	.31	THRU	1/4-20	SBT101
SBTP-102	.62	.62	1.50	.750	.38	.31	.38	5/16-18	SBT102
SBTP-103	.62	.62	2.00	1.250	.38	.31	.38	5/16-18	SBT103
SBTP-104	.62	1.00	1.62	1.000	.31	.50	.38	5/16-18	SBT104
SBTP-105	.62	1.00	2.38	1.625	.38	.50	THRU	3/8-16	SBT105
SBTP-106	.75	.75	1.50	.750	.38	.38	.44	5/16-18	SBT106
SBTP-107	.75	1.00	2.00	1.000	.50	.50	THRU	3/8-16	SBT107
SBTP-108	.75	1.00	2.00	1.120	.44	.50	THRU	5/16-18	SBT108
SBTP-109	.75	1.00	2.38	1.625	.38	.50	.44	3/8-16	SBT109
SBTP-110	.75	2.50	2.00	1.120	.44	1.25	THRU	5/16-18	SBT110
SBTP-111	.88	1.00	2.38	1.625	.38	.50	.56	3/8-16	SBT111
SBTP-112	1.00	.75	1.50	.750	.38	.38	.50	5/16-18	SBT112
SBTP-113	1.00	1.00	1.81	1.187	.31	.50	.50	5/16-18	SBT113
SBTP-114	1.25	1.00	1.81	1.187	.31	.50	.50	5/16-18	SBT114
SBTP-115	1.25	1.25	2.18	1.437	.38	.62	.62	3/8-16	SBT115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case, (Threads Soft)

Finish: Black Oxide

Model Number Development Detail Standard Tapped Stop Block

(For Special Sizes) SBTP-.625-1.00-2.38-1.625-.38-.50-.44-3/8-16

Tapped Stop Block _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Dimension _____

"E" Dimension _____

"F" Dimension _____

"G" Dimension _____

"H" Tap _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

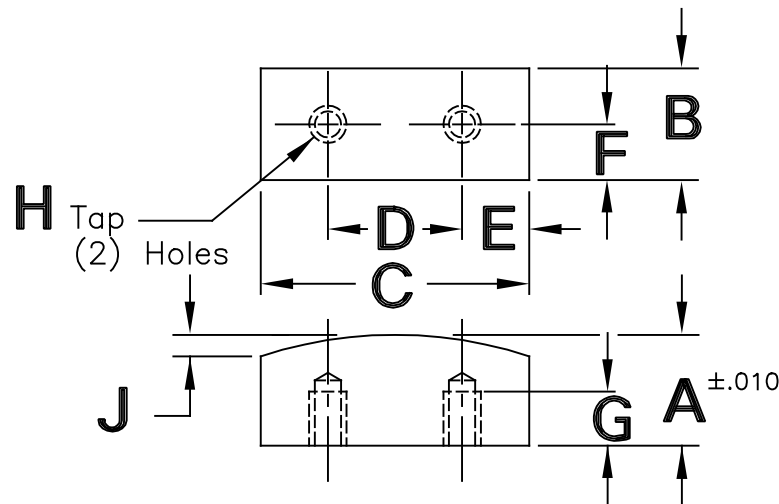
Example: MSBTP-18-25-60-34-13-12-10-M10x1.5

Detail Standard Co.

CROWNED STOP BLOCK

Type SBTC

SEE PAGES F-2 & F-7
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H	J	CAD FILE NO.
SBTC-101	.50	.62	1.50	.750	.38	.31	THRU	1/4-20	.06	SBTC101
SBTC-102	.62	.62	2.00	1.250	.38	.31	.38	1/4-20	.06	SBTC102
SBTC-103	.75	.62	1.25	.625	.31	.31	THRU	1/4-20	.06	SBTC103
SBTC-104	.75	1.00	2.00	1.120	.44	.50	THRU	5/16-18	.12	SBTC104
SBTC-105	.75	2.50	2.00	1.120	.44	1.25	THRU	5/16-18	.12	SBTC105
SBTC-106	.88	.62	1.50	.750	.38	.31	.38	5/16-18	.06	SBTC106
SBTC-107	.88	.62	2.00	1.250	.38	.31	.38	5/16-18	.12	SBTC107
SBTC-108	.88	1.00	1.62	1.000	.31	.50	.38	5/16-18	.06	SBTC108
SBTC-109	.88	1.00	2.38	1.625	.38	.50	THRU	3/8-16	.12	SBTC109
SBTC-110	1.00	.75	1.50	.750	.38	.38	.44	5/16-18	.06	SBTC110
SBTC-111	1.00	1.00	2.00	1.000	.50	.50	THRU	3/8-16	.12	SBTC111
SBTC-112	1.00	1.00	2.38	1.625	.38	.50	.44	3/8-16	.12	SBTC112
SBTC-113	1.25	1.00	1.81	1.187	.31	.50	.50	5/16-18	.12	SBTC113
SBTC-114	1.25	1.25	2.81	1.437	.38	.62	.75	3/8-16	.12	SBTC114
SBTC-115	1.50	1.25	2.18	1.437	.38	.62	.62	3/8-16	.12	SBTC115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case, (Threads Soft)

Finish: Black Oxide

Model Number Development Detail Standard Crowned Stop Block

(For Special Sizes) SBTC-.62-1.00-2.38-1.625-.38-.50-.44-3/8-16-.12

Crowned Stop Block	_____
"A" Dimension	_____
"B" Dimension	_____
"C" Dimension	_____
"D" Dimension	_____
"E" Dimension	_____
"F" Dimension	_____
"G" Dimension	_____
"H" Tap	_____
"J" Dimension	_____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

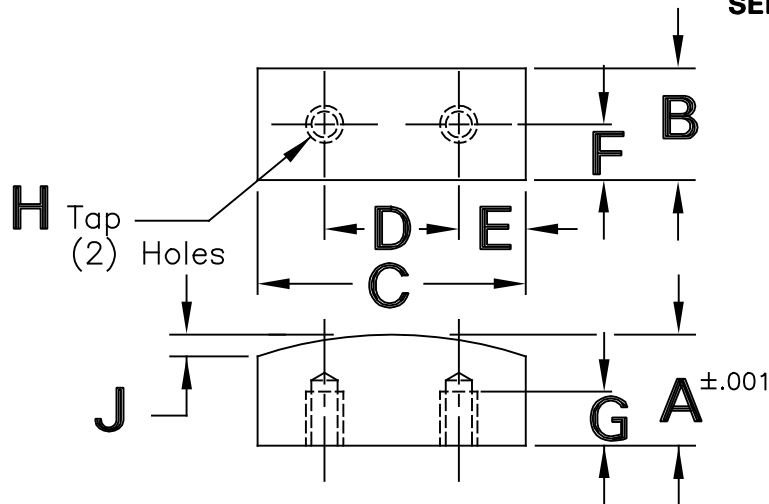
Example MSBTC-18-25-60-34-13-12-10-M10x1.5-3

Detail Standard Co.

CROWNED STOP BLOCK - PRECISION HEIGHT

Type SBTCP

SEE PAGES F-2 & F-7
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H	J	CAD FILE NO.
SBTCP-101	.500	.62	1.50	.750	.38	.31	THRU	1/4-20	.06	SBTC101
SBTCP-102	.625	.62	2.00	1.250	.38	.31	.38	1/4-20	.06	SBTC102
SBTCP-103	.750	.62	1.25	.625	.31	.31	THRU	1/4-20	.06	SBTC103
SBTCP-104	.750	1.00	2.00	1.120	.44	.50	THRU	5/16-18	.12	SBTC104
SBTCP-105	.750	2.50	2.00	1.120	.44	1.25	THRU	5/16-18	.12	SBTC105
SBTCP-106	.875	.62	1.50	.750	.38	.31	.38	5/16-18	.06	SBTC106
SBTCP-107	.875	.62	2.00	1.250	.38	.31	.38	5/16-18	.12	SBTC107
SBTCP-108	.875	1.00	1.62	1.000	.31	.50	.38	5/16-18	.06	SBTC108
SBTCP-109	.875	1.00	2.38	1.625	.38	.50	THRU	3/8-16	.12	SBTC109
SBTCP-110	1.000	.75	1.50	.750	.38	.38	.44	5/16-18	.06	SBTC110
SBTCP-111	1.000	1.00	2.00	1.000	.50	.50	THRU	3/8-16	.12	SBTC111
SBTCP-112	1.000	1.00	2.38	1.625	.38	.50	.44	3/8-16	.12	SBTC112
SBTCP-113	1.250	1.00	1.81	1.187	.31	.50	.50	5/16-18	.12	SBTC113
SBTCP-114	1.250	1.25	2.81	1.437	.38	.62	.75	3/8-16	.12	SBTC114
SBTCP-115	1.500	1.25	2.18	1.437	.38	.62	.62	3/8-16	.12	SBTC115

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn. Rock "C" 55-60, .06 Min. Case, (Threads Soft)

Finish: Black Oxide

Model Number Development Detail Standard Crowned Stop Block

(For Special Sizes) SBTCP-.625-1.00-2.38-1.625-.38-.50-.44-3/8-16-.12

Crowned Stop Block _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Dimension _____

"E" Dimension _____

"F" Dimension _____

"G" Dimension _____

"H" Tap _____

"J" Dimension _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

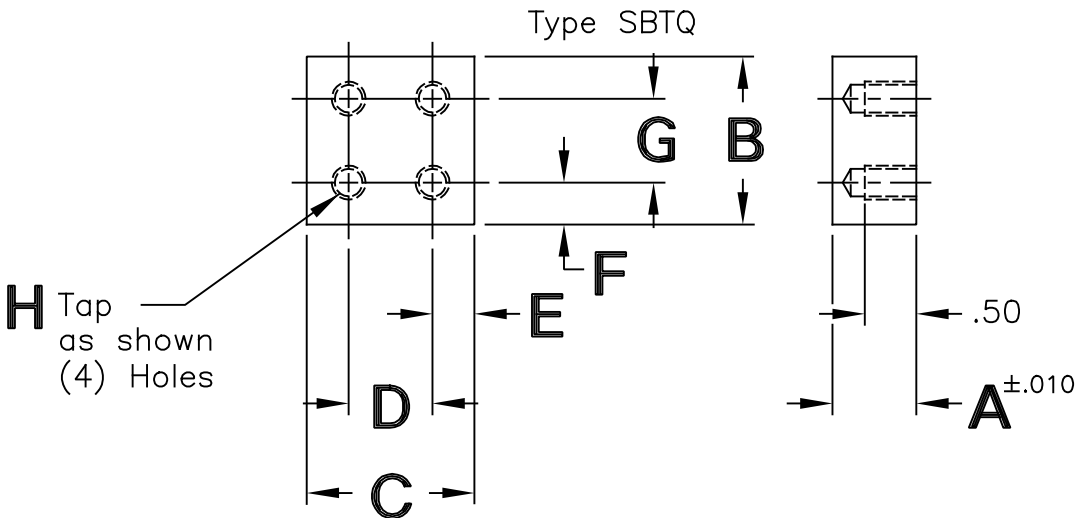
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MSBTCP-18-25-60-34-13-12-10-M10x1.5-3

Detail Standard Co.

STOP BLOCK FOUR HOLES

SEE PAGE F-5
FOR SHIMS



Part No.	A	B	C	D	E	F	G	H
SBTQ-101	.750	1.50	1.50	.750	.38	.38	.750	5/16-18
SBTQ-102	.750	1.50	2.00	1.250	.38	.38	.750	5/16-18
SBTQ-103	.750	2.00	2.25	1.250	.50	.50	1.000	5/16-18
SBTQ-104	.750	2.00	3.00	2.000	.50	.50	1.000	5/16-18
SBTQ-105	.750	2.00	3.00	2.250	.38	.38	1.250	5/16-18
SBTQ-106	.750	2.00	3.38	2.625	.38	.50	1.000	3/8-16
SBTQ-107	.750	2.00	3.50	2.000	.75	.56	.875	5/16-18
SBTQ-108	.750	2.25	2.25	1.250	.50	.50	1.250	5/16-18
SBTQ-109	.750	2.25	3.25	2.500	.38	.38	1.500	3/8-16
SBTQ-110	1.000	2.00	2.25	1.250	.50	.50	1.000	5/16-18
SBTQ-111	1.000	2.00	3.00	2.000	.50	.50	1.000	5/16-18
SBTQ-112	1.000	2.00	3.00	2.250	.38	.38	1.250	5/16-18
SBTQ-113	1.000	2.00	3.50	2.000	.75	.56	.875	5/16-18
SBTQ-114	1.000	2.25	2.25	1.250	.50	.50	1.250	5/16-18
SBTQ-115	1.000	2.25	3.25	2.500	.38	.38	1.500	3/8-16

Material: 1018 C.R.S.

Heat Treat: Carb. & Hdn., Rock "C" 56-60, .06 Min. Case

Finish: Black Oxide

Model Number Development (For Special Sizes)

Detail Standard Stop Block

SBTQ-1.00-2.00-2.38-1.375-.50-.50-1.000-1/4-20

Stop Block Four Holes

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Dimension

"G" Dimension

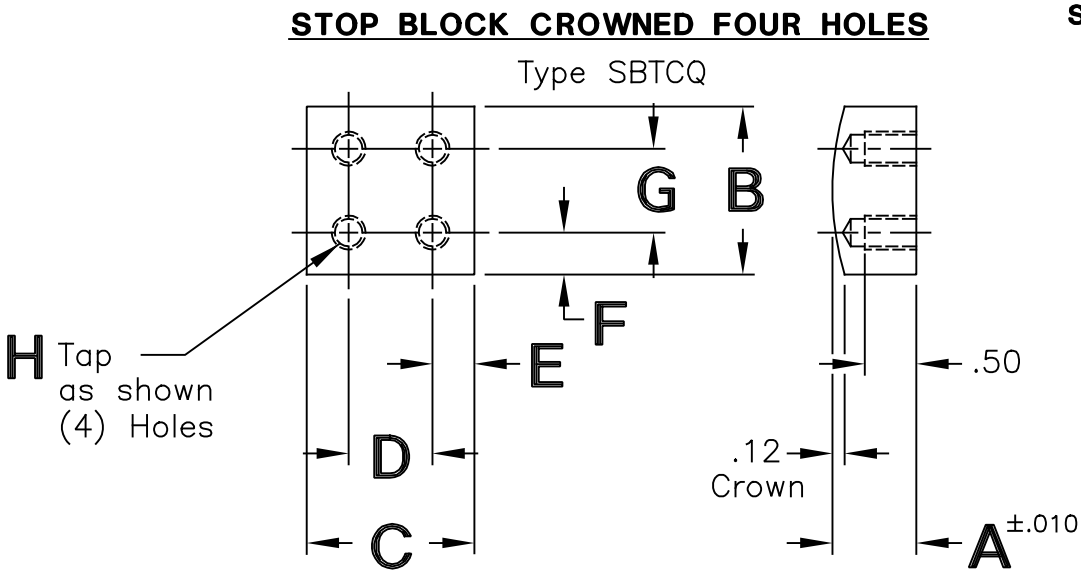
"H" Tap Size

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special items," using Model Number Development format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MSBTQ-25-50-60-34-13-10-30-M6x1

Detail Standard Co.

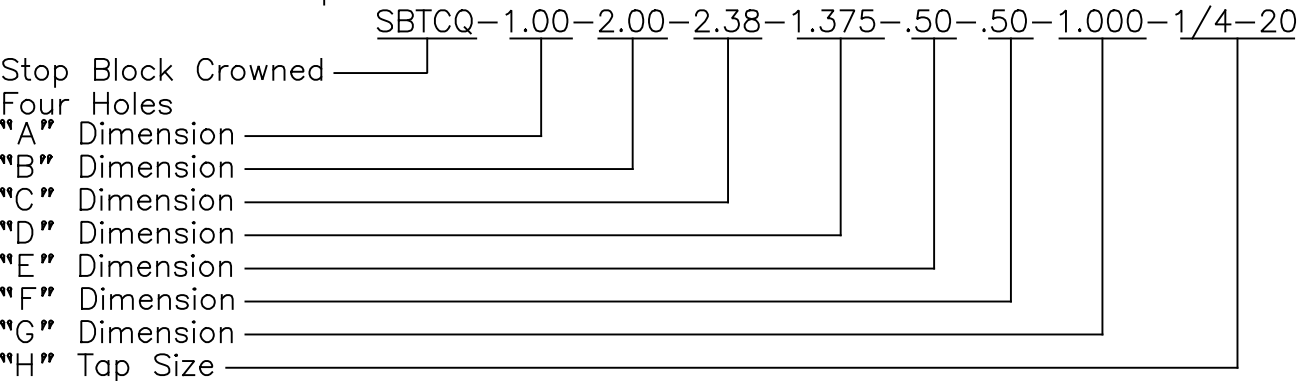


Part No.	A	B	C	D	E	F	G	H
SBTCQ-101	.750	1.50	1.50	.750	.38	.38	.750	5/16-18
SBTCQ-102	.750	1.50	2.00	1.250	.38	.38	.750	5/16-18
SBTCQ-103	.750	2.00	2.25	1.250	.50	.50	1.000	5/16-18
SBTCQ-104	.750	2.00	3.00	2.000	.50	.50	1.000	5/16-18
SBTCQ-105	.750	2.00	3.00	2.250	.38	.38	1.250	5/16-18
SBTCQ-106	.750	2.00	3.38	2.625	.38	.50	1.000	3/8-16
SBTCQ-107	.750	2.00	3.50	2.000	.75	.56	.875	5/16-18
SBTCQ-108	.750	2.25	2.25	1.250	.50	.50	1.250	5/16-18
SBTCQ-109	.750	2.25	3.25	2.500	.38	.38	1.500	3/8-16
SBTCQ-110	1.000	2.00	2.25	1.250	.50	.50	1.000	5/16-18
SBTCQ-111	1.000	2.00	3.00	2.000	.50	.50	1.000	5/16-18
SBTCQ-112	1.000	2.00	3.00	2.250	.38	.38	1.250	5/16-18
SBTCQ-113	1.000	2.00	3.50	2.000	.75	.56	.875	5/16-18
SBTCQ-114	1.000	2.25	2.25	1.250	.50	.50	1.250	5/16-18
SBTCQ-115	1.000	2.25	3.25	2.500	.38	.38	1.500	3/8-16

Material: 1018 C.R.S.
Heat Treat: Carb. & Hdn., Rock "C" 56-60, .06 Min. Case
Finish: Black Oxide

Model Number Development (For Special Sizes)

Detail Standard Stop Block



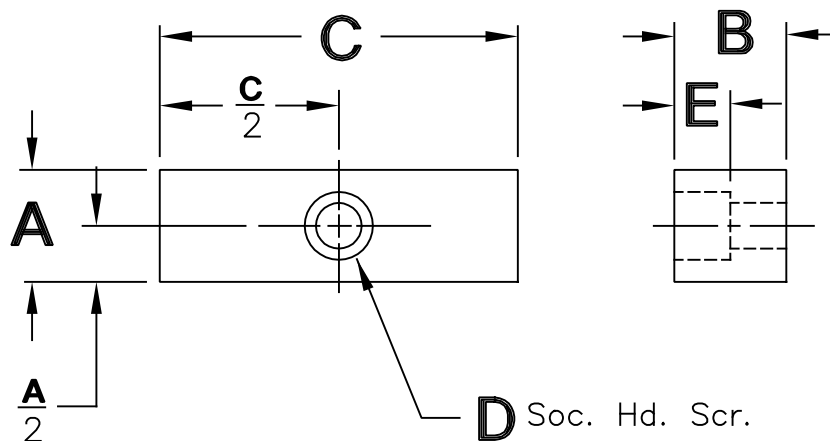
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special items," using Model Number Development format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSBTCQ-25-50-60-34-13-10-30-M6x1

Detail Standard Co.

FIXTURE KEY

Type DK



Part No.	A ^{+.000} _{-.003}	B	C	D	E	CAD FILE NO.
DK-101	.500	.50	.75	.25	.40	DK101
DK-102	.500	.50	1.00	.25	.40	DK102
DK-103	.500	.50	1.25	.25	.40	DK103
DK-104	.500	.50	1.50	.25	.40	DK104
DK-105	.500	.50	2.00	.25	.40	DK105
DK-106	.500	.50	3.00	.25	.40	DK106
DK-107	.562	.50	.75	.25	.40	DK107
DK-108	.625	.50	.75	.25	.40	DK108
DK-109	.625	.50	1.00	.25	.40	DK109
DK-110	.625	.50	2.00	.25	.40	DK110
DK-111	.625	.50	3.00	.25	.40	DK111
DK-112	.687	.50	1.00	.31	.40	DK112
DK-113	.750	.50	1.00	.31	.40	DK113
DK-114	.750	.50	1.25	.31	.40	DK114
DK-115	.750	.50	2.00	.31	.40	DK115
DK-116	.750	.50	3.00	.31	.40	DK116
DK-117	.750	.75	2.50	.38	.56	DK117
DK-118	.750	.75	3.00	.38	.56	DK118

Part No.	A ^{+.000} _{-.004}	B	C	D	E	CAD FILE NO.
DK-119	.812	.50	1.25	.31	.40	DK119
DK-120	1.000	.75	1.00	.31	.46	DK120
DK-121	1.000	.75	1.25	.31	.46	DK121
DK-122	1.000	.75	1.50	.31	.46	DK122
DK-123	1.000	.75	2.00	.31	.46	DK123
DK-124	1.000	.75	3.00	.31	.46	DK124
DK-125	1.000	1.00	2.50	.50	.75	DK125
DK-126	1.000	1.00	4.00	.50	.75	DK126
DK-127	1.250	.75	1.00	.38	.56	DK127
DK-128	1.250	.75	2.00	.38	.56	DK128
DK-129	1.250	.75	3.00	.38	.56	DK129
DK-130	1.250	1.25	3.00	.50	.75	DK130
DK-131	1.250	1.25	5.00	.50	.75	DK131
DK-132	1.500	1.00	1.00	.38	.56	DK132
DK-133	1.500	1.00	2.00	.38	.56	DK133
DK-134	1.500	1.00	3.00	.38	.56	DK134
DK-135	1.500	1.50	3.00	.50	.75	DK135
DK-136	1.500	1.50	6.00	.50	.75	DK136

Material: Keystock
Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Fixture Key.
DK-.500-.50-1.25-.25-.40

Fixture Key

"A" Dimension

"B" Dimension

"C" Dimension

"D" Soc. Hd. Scr.

"E" Dimension

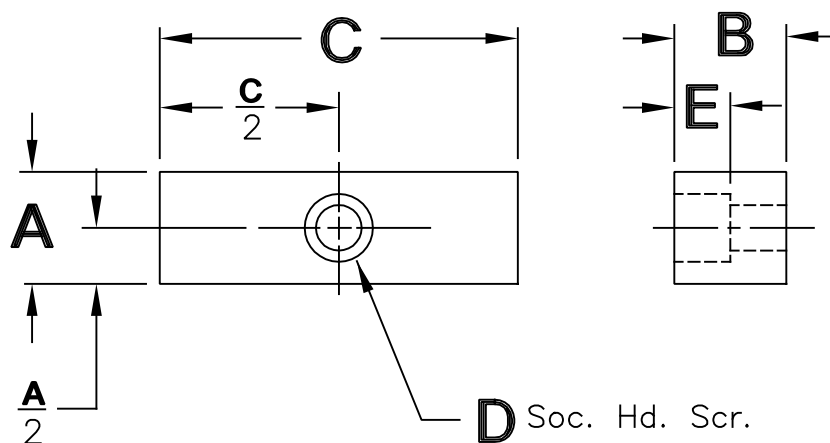
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MDK-12-12-30-6-8

Detail Standard Co.

FIXTURE KEY

Type DKF



Part No.	A ^{+.000} _{-.003}	B	C	D	E	CAD FILE NO.
DKF-101	.503	.50	.75	.25	.40	DKF101
DKF-102	.503	.50	1.00	.25	.40	DKF102
DKF-103	.503	.50	1.25	.25	.40	DKF103
DKF-104	.503	.50	1.50	.25	.40	DKF104
DKF-105	.503	.50	2.00	.25	.40	DKF105
DKF-106	.503	.50	3.00	.25	.40	DKF106
DKF-107	.565	.50	.75	.25	.40	DKF107
DKF-108	.628	.50	.75	.25	.40	DKF108
DKF-109	.628	.50	1.00	.25	.40	DKF109
DKF-110	.628	.50	2.00	.25	.40	DKF110
DKF-111	.628	.50	3.00	.25	.40	DKF111
DKF-112	.690	.50	1.00	.31	.40	DKF112
DKF-113	.753	.50	1.00	.31	.40	DKF113
DKF-114	.753	.50	1.25	.31	.40	DKF114
DKF-115	.753	.50	2.00	.31	.40	DKF115
DKF-116	.753	.50	3.00	.31	.40	DKF116
DKF-117	.753	.75	2.50	.38	.56	DKF117
DKF-118	.753	.75	3.00	.38	.56	DKF118

Part No.	A ^{+.000} _{-.004}	B	C	D	E	CAD FILE NO.
DKF-119	.816	.50	1.25	.31	.40	DKF119
DKF-120	1.004	.75	1.00	.31	.46	DKF120
DKF-121	1.004	.75	1.25	.31	.46	DKF121
DKF-122	1.004	.75	1.50	.31	.46	DKF122
DKF-123	1.004	.75	2.00	.31	.46	DKF123
DKF-124	1.004	.75	3.00	.31	.46	DKF124
DKF-125	1.004	1.00	2.50	.50	.75	DKF125
DKF-126	1.004	1.00	4.00	.50	.75	DKF126
DKF-127	1.254	.75	1.00	.38	.56	DKF127
DKF-128	1.254	.75	2.00	.38	.56	DKF128
DKF-129	1.254	.75	3.00	.38	.56	DKF129
DKF-130	1.254	1.25	3.00	.50	.75	DKF130
DKF-131	1.254	1.25	5.00	.50	.75	DKF131
DKF-132	1.504	1.00	1.00	.38	.56	DKF132
DKF-133	1.504	1.00	2.00	.38	.56	DKF133
DKF-134	1.504	1.00	3.00	.38	.56	DKF134
DKF-135	1.504	1.50	3.00	.50	.75	DKF135
DKF-136	1.504	1.50	6.00	.50	.75	DKF136

Material: Keystock
Finish: Black Oxide

Model Number Development
(For Special Sizes)

Fixture Key _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Soc. Hd. Scr. _____

"E" Dimension _____

Detail Standard Fixture Key.
DKF-.500-.50-1.25-.25-.40

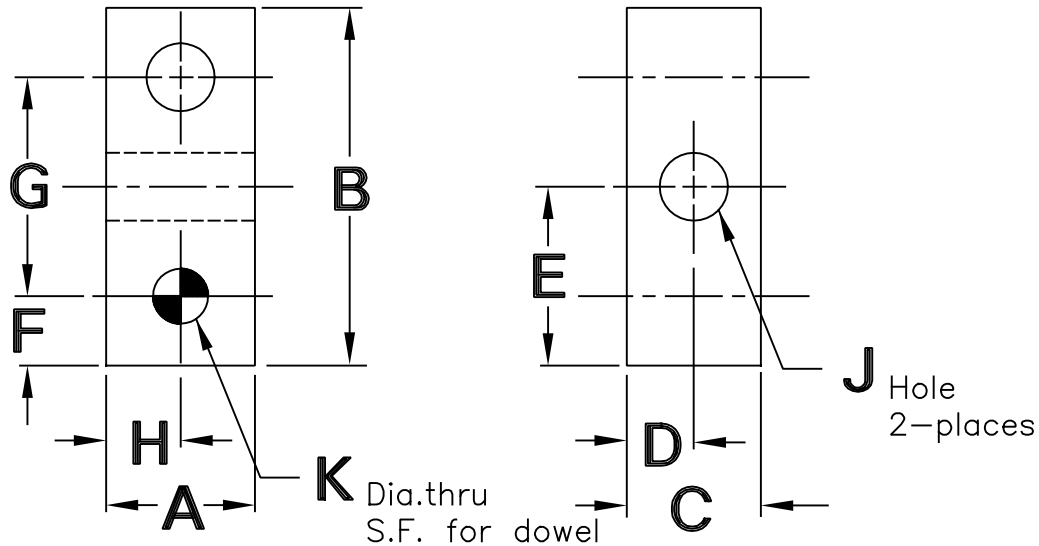
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MDKF-12-12-30-6-8

Detail Standard Co.

PUSH-PULL BLOCK

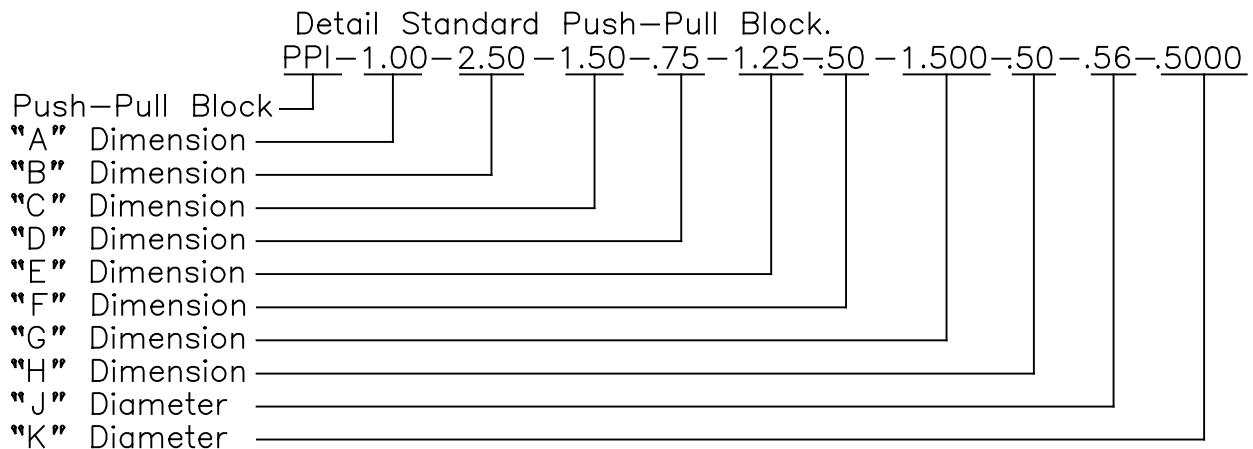
Type PPI



Part No.	A	B	C	D	E	F	G	H	J	K
PPI-101	1.00	2.25	1.00	.50	1.12	.50	1.250	.50	.41	.3750
PPI-102	1.50	2.75	1.52	.67	1.38	.63	1.500	.75	.56	.5000
PPI-103	1.00	2.00	1.75	1.12	1.00	.38	1.250	.50	.41	.3750
PPI-104	.75	2.00	1.48	.86	1.00	.38	1.250	.38	.31	.3125
PPI-105	1.50	3.25	1.25	.62	1.62	.62	2.000	.75	.68	.5000
PPI-106	.75	2.00	.87	.56	1.00	.38	1.250	.38	.34	.3125
PPI-107	1.00	2.00	1.63	1.11	1.00	.38	1.250	.50	.41	.3750
PPI-108	1.25	2.00	1.63	1.11	1.00	.38	1.250	.62	.41	.3750
PPI-109	1.25	2.00	1.63	1.11	1.00	.38	1.250	.62	.56	.5000
PPI-110	1.00	2.00	1.00	.50	1.00	.38	1.250	.50	.44	.3750

Material: 1018 C.R.S. Finish: Black Oxide

Model Number Development (For Special Sizes)



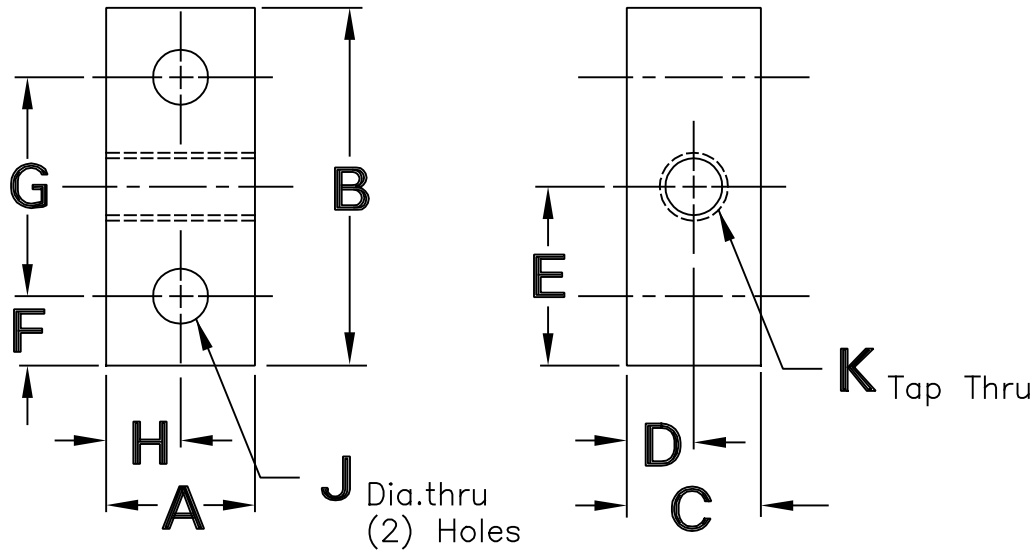
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special items," using Model Number Development format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MPPI-25-60-38-19-30-12-36-12-14-12

Detail Standard Co.

POSITIONING BLOCK

Type PBL



Part No.	A	B	C	D	E	F	G	H	J	K
PBL-101	1.00	2.25	1.00	.50	1.12	.50	1.250	.50	.41	3/8-16
PBL-102	1.50	2.75	1.52	.67	1.38	.63	1.500	.75	.56	1/2-13
PBL-103	1.00	2.00	1.75	1.12	1.00	.38	1.250	.50	.41	3/8-16
PBL-104	.75	2.00	1.48	.86	1.00	.38	1.250	.38	.31	5/16-18
PBL-105	1.50	3.25	1.25	.62	1.62	.62	2.000	.75	.68	1/2-13
PBL-106	.75	2.00	.87	.56	1.00	.38	1.250	.38	.34	5/16-18
PBL-107	1.00	2.00	1.63	1.11	1.00	.38	1.250	.50	.41	3/8-16
PBL-108	1.25	2.00	1.63	1.11	1.00	.38	1.250	.62	.41	3/8-16
PBL-109	1.25	2.00	1.63	1.11	1.00	.38	1.250	.62	.56	1/2-13
PBL-110	1.00	2.00	1.00	.50	1.00	.38	1.250	.50	.44	3/8-16

Material: 1018 C.R.S. Finish: Black Oxide

Model Number Development (For Special Sizes)

Detail Standard Positioning Block.

PBL-1.00-2.50-1.50-.75-1.25-.50-1.500-.50-.56-1/2-13

Positioning Block

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Dimension

"G" Dimension

"H" Dimension

"J" Diameter

"K" Thread

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special items," using Model Number Development format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

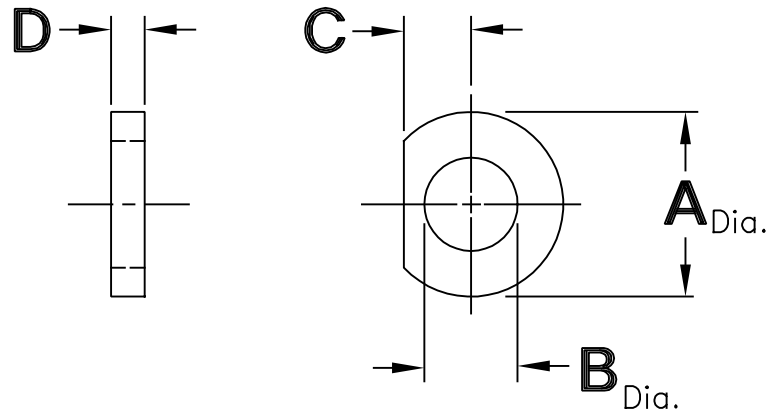
Example: MPBL-25-60-38-19-30-12-36-12-14-M12x1.75

Detail Standard Co.

"D" WASHER

Type D

SEE PAGE E-28
FOR MORE SIZES



Part No.	A	B	B TOL.	C	D	CAD FILE NO.
D-101	.88	.28	±.010	.38	.25	D101
D-102	.88	.41	±.010	.38	.25	D102
D-103	1.00	.28	±.010	.25	.12	D103
D-104	1.00	.28	±.010	.44	.25	D104
D-105	1.00	.378	±.002	.44	.25	D105
D-106	1.00	.41	±.010	.44	.25	D106
D-107	1.00	.53	±.010	.44	.25	D107
D-108	1.25	.28	±.010	.50	.25	D108
D-109	1.25	.41	±.010	.50	.25	D109
D-110	1.25	.41	±.010	.50	.38	D110
D-111	1.25	.503	±.002	.50	.25	D111
D-112	1.25	.53	±.010	.50	.25	D112
D-113	1.25	.53	±.010	.50	.38	D113
D-114	1.25	.69	±.010	.50	.25	D114
D-115	1.25	.69	±.010	.50	.38	D115

Part No.	A	B	B TOL.	C	D	CAD FILE NO.
D-116	1.50	.41	±.010	.62	.25	D116
D-117	1.50	.53	±.010	.62	.25	D117
D-118	1.50	.53	±.010	.62	.38	D118
D-119	1.50	.628	±.002	.56	.25	D119
D-120	1.50	.69	±.010	.62	.25	D120
D-121	1.50	.69	±.010	.62	.38	D121
D-122	1.50	.753	±.002	.64	.25	D122
D-123	1.50	.81	±.010	.62	.25	D123
D-124	1.50	.81	±.010	.62	.38	D124
D-125	2.00	.53	±.010	.75	.38	D125
D-126	2.00	.53	±.010	.75	.50	D126
D-127	2.00	.69	±.010	.75	.38	D127
D-128	2.00	.69	±.010	.75	.50	D128
D-129	2.00	.81	±.010	.75	.38	D129
D-130	2.00	.81	±.010	.75	.50	D130

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

"D" Washer

"A" Diameter

"B" Diameter

"C" Dimension

"D" Thickness

Detail Standard "D" Washer

D-2.00-.81-.75-.50

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

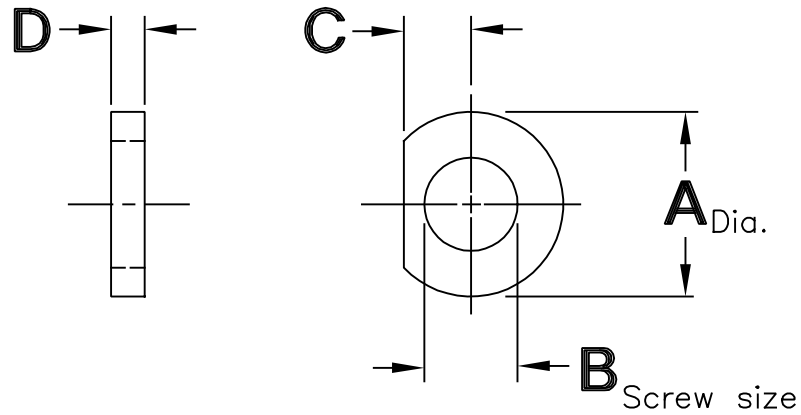
Example: MD-50-20-20-12

Detail Standard Co.

"D" WASHER

Type D

SEE PAGE E-27
FOR MORE SIZES



Part No.	A	B	C	D	MAT'L/PLATING	REF. NUMBER	CAD FILE NO.
D-131	.75	.25	.25	.125	STEEL	DSC-D-14	D131
D-132	.875	.31	.312	.125	STEEL	DSC-D-516	D132
D-133	1.00	.38	.38	.25	STEEL	56ZF24981-38	D133
D-134	1.00	.38	.38	.14	STEEL	56ZM2359-2	D134
						DSC-D-38	
						FSD 14102	
D-135	1.00	.38	.38	.14	STAINLESS	FSD 14102SS	D135
D-136	1.25	.50	.50	.19	STEEL	56ZM2359-3	D136
						DSC-D-12	
						FSD 14103	
D-137	1.25	.50	.50	.19	STAINLESS	FSD 14103SS	D137
D-138	1.25	.50	.50	.19	STEEL/ZINC	FSD 14103Z	D138
D-111	1.25	.50	.50	.25	STEEL	56ZF24981-12	D111
D-139	1.38	.63	.56	.19	STEEL	DSC-D-58	D139
D-140	1.38	.63	.63	.25	STEEL	56ZF24981-58	D140
D-122	1.50	.75	.63	.25	STEEL	56ZF24981-34	D122
						FSD 14239	
						DSC-D-34	
D-141	1.75	.88	.69	.25	STEEL	DSC-D-78	D141
D-142	2.00	1.00	.75	.31	STEEL	DSC-D-100	D142

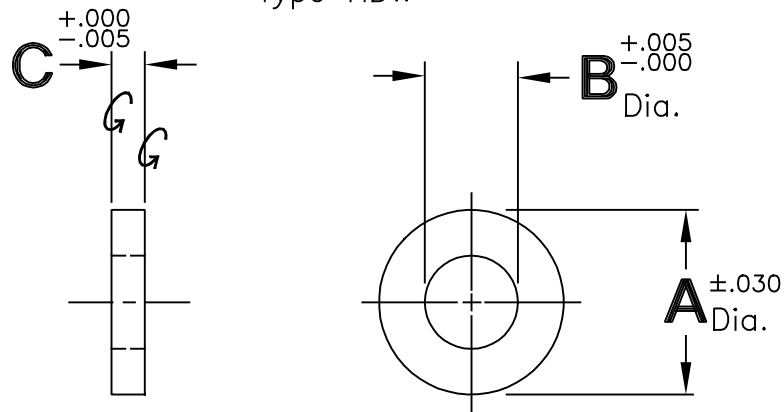
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format found on page 28.0 - 1.

Detail Standard Co.

HARDENED WASHER - PRECISION

Type HDW

**SEE PAGE E-30
FOR NON-PRECISION
SIZES**



Part No.	A	B	C	CAD FILE NO.
HDW-101	.88	.317	.125	HDW101
HDW-102	1.00	.380	.125	HDW102
HDW-103	1.12	.443	.156	HDW103
HDW-104	.75	.505	.125	HDW104
HDW-105	1.12	.505	.156	HDW105
HDW-106	1.25	.505	.188	HDW106
HDW-107	1.38	.567	.094	HDW107
HDW-108	1.38	.567	.188	HDW108
HDW-109	.78	.630	.125	HDW109
HDW-110	1.25	.630	.094	HDW110
HDW-111	1.25	.630	.188	HDW111
HDW-112	1.38	.630	.188	HDW112
HDW-113	1.50	.630	.094	HDW113
HDW-114	1.50	.630	.188	HDW114
HDW-115	1.75	.630	.188	HDW115
HDW-116	1.00	.755	.094	HDW116
HDW-117	1.31	.755	.094	HDW117
HDW-118	1.31	.755	.188	HDW118

Part No.	A	B	C	CAD FILE NO.
HDW-119	1.62	.755	.125	HDW119
HDW-120	1.62	.755	.188	HDW120
HDW-121	1.75	.755	.188	HDW121
HDW-122	2.00	.755	.188	HDW122
HDW-123	1.18	.880	.094	HDW123
HDW-124	2.00	.880	.125	HDW124
HDW-125	2.00	.880	.188	HDW125
HDW-126	2.25	.880	.188	HDW126
HDW-127	1.56	1.005	.125	HDW127
HDW-128	1.56	1.005	.188	HDW128
HDW-129	2.00	1.005	.125	HDW129
HDW-130	2.00	1.005	.188	HDW130
HDW-131	2.25	1.005	.188	HDW131
HDW-132	2.50	1.005	.250	HDW132
HDW-133	2.50	1.130	.250	HDW133
HDW-134	2.00	1.255	.188	HDW134
HDW-135	2.50	1.255	.250	HDW135
HDW-136	3.00	1.255	.250	HDW136

Material: 1020 H.R.S.

Heat Treat: Carb. Hardened and Grind, Rock "C" 55-60, .03 Min. Case.

Finish: Ground to Size and Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Hardened Washer
HDW-2.00-.750-.25

Hardened Washer _____
 "A" Diameter _____
 "B" Diameter _____
 "C" Thickness _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items using "Model Number Development" format.

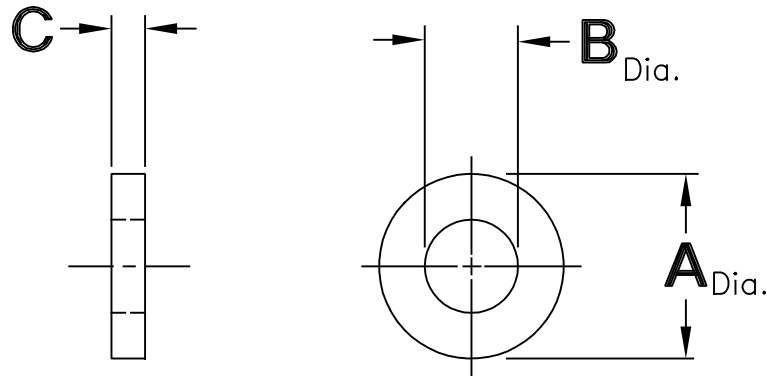
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MHDW-50-20-6

Detail Standard Co.

HARDENED WASHER

Type HW

**SEE PAGE E-29
FOR PRECISION
SIZES**



Part No.	A	B	C	CAD FILE NO.
HW-101	.88	.32	.12	HDW101
HW-102	1.00	.38	.12	HDW102
HW-103	1.12	.44	.16	HDW103
HW-104	.75	.53	.12	HDW104
HW-105	1.12	.53	.16	HDW105
HW-106	1.25	.53	.19	HDW106
HW-107	1.38	.56	.09	HDW107
HW-108	1.38	.56	.19	HDW108
HW-109	.78	.63	.12	HDW109
HW-110	1.25	.63	.09	HDW110
HW-111	1.25	.63	.19	HDW111
HW-112	1.38	.63	.19	HDW112
HW-113	1.50	.63	.09	HDW113
HW-114	1.50	.63	.19	HDW114
HW-115	1.75	.63	.19	HDW115
HW-116	1.00	.78	.09	HDW116
HW-117	1.31	.78	.09	HDW117
HW-118	1.31	.78	.19	HDW118

Part No.	A	B	C	CAD FILE NO.
HW-119	1.62	.78	.12	HDW119
HW-120	1.62	.78	.19	HDW120
HW-121	1.75	.78	.19	HDW121
HW-122	2.00	.78	.19	HDW122
HW-123	1.18	.94	.09	HDW123
HW-124	2.00	.94	.12	HDW124
HW-125	2.00	.94	.19	HDW125
HW-126	2.25	.94	.19	HDW126
HW-127	1.56	1.03	.12	HDW127
HW-128	1.56	1.03	.19	HDW128
HW-129	2.00	1.03	.12	HDW129
HW-130	2.00	1.03	.19	HDW130
HW-131	2.25	1.03	.19	HDW131
HW-132	2.50	1.03	.25	HDW132
HW-133	2.50	1.15	.25	HDW133
HW-134	2.00	1.28	.19	HDW134
HW-135	2.50	1.28	.25	HDW135
HW-136	3.00	1.28	.25	HDW136

Material: 1020 H.R.S.

Heat Treat: Carb. and Hardened, Rock "C" 55-60, .03 Min. Case.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Hardened Washer
HW - 2.00 - .78 - .25

Hardened Washer _____
 "A" Diameter _____
 "B" Diameter _____
 "C" Thickness _____

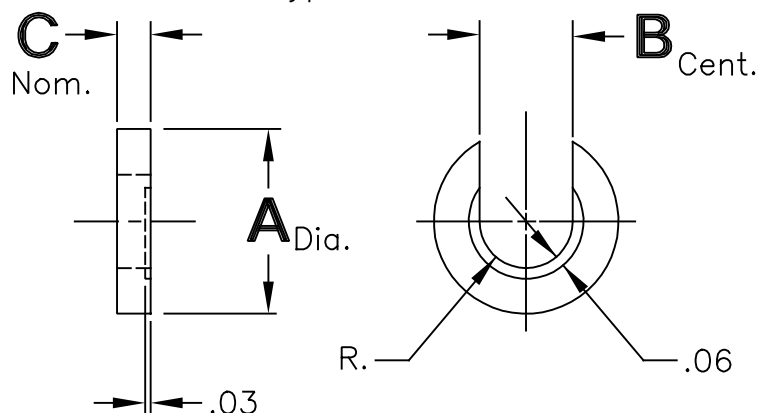
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MHW-50-20-6

Detail Standard Co.

"C" WASHER

Type CW



Part No.	A	B	C	CAD FILE NO.
CW-101	.88	.32	.12	CW101
CW-102	1.00	.38	.12	CW102
CW-103	1.12	.44	.16	CW103
CW-104	.75	.51	.12	CW104
CW-105	1.12	.51	.16	CW105
CW-106	1.25	.51	.18	CW106
CW-107	1.38	.57	.09	CW107
CW-108	1.38	.57	.18	CW108
CW-109	.78	.63	.12	CW109
CW-110	1.25	.63	.09	CW110
CW-111	1.25	.63	.18	CW111
CW-112	1.38	.63	.18	CW112
CW-113	1.50	.63	.09	CW113
CW-114	1.50	.63	.18	CW114
CW-115	1.75	.63	.18	CW115
CW-116	1.00	.76	.09	CW116
CW-117	1.31	.76	.09	CW117
CW-118	1.31	.76	.18	CW118

Part No.	A	B	C	CAD FILE NO.
CW-119	1.62	.76	.12	CW119
CW-120	1.62	.76	.18	CW120
CW-121	1.75	.76	.18	CW121
CW-122	2.00	.76	.18	CW122
CW-123	1.18	.88	.09	CW123
CW-124	2.00	.88	.12	CW124
CW-125	2.00	.88	.18	CW125
CW-126	2.25	.88	.18	CW126
CW-127	1.56	1.01	.12	CW127
CW-128	1.56	1.01	.18	CW128
CW-129	2.00	1.01	.12	CW129
CW-130	2.00	1.01	.18	CW130
CW-131	2.25	1.01	.18	CW131
CW-132	2.50	1.01	.25	CW132
CW-133	2.50	1.13	.25	CW133
CW-134	2.00	1.26	.18	CW134
CW-135	2.50	1.26	.25	CW135
CW-136	3.00	1.26	.25	CW136

Material: 1018 C.R.S.

Heat Treat: NONE.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard "C" Washer
CW-2.00-.750-.25

"C" Washer _____
 "A" Diameter _____
 "B" Dim. _____
 "C" Thickness _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items using "Model Number Development" format.

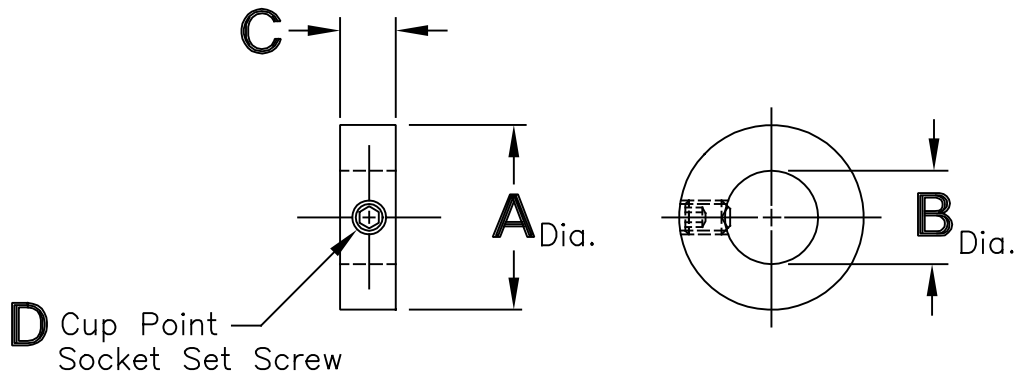
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MCW-50-20-6

Detail Standard Co.

SET SCREW COLLAR

Type CSS

SEE PAGE E-33
FOR THREADED
STYLE



Part No.	A	B $\begin{smallmatrix} +.001 \\ -.000 \end{smallmatrix}$	C	D	CAD FILE NO.	Part No.	A	B $\begin{smallmatrix} +.002 \\ -.000 \end{smallmatrix}$	C	D	CAD FILE NO.
CSS-101	.44	.188	.25	No.6X1/8	CSS101	CSS-122	2.25	1.501	.75	3/8X3/8	CSS122
CSS-102	.50	.251	.28	No.6X1/8	CSS102	CSS-123	2.50	1.563	.81	3/8X3/8	CSS123
CSS-103	.62	.313	.34	No.8X1/8	CSS103	CSS-124	2.50	1.626	.81	3/8X3/8	CSS124
CSS-104	.75	.376	.38	No.10X3/16	CSS104	CSS-125	2.50	1.688	.81	3/8X3/8	CSS125
CSS-105	.88	.438	.44	No.10X1/4	CSS105	CSS-126	2.75	1.751	.88	1/2X1/2	CSS126
CSS-106	1.00	.501	.44	No.10X1/4	CSS106	CSS-127	2.75	1.813	.88	1/2X1/2	CSS127
CSS-107	1.00	.563	.44	No.10X1/4	CSS107	CSS-128	2.75	1.876	.88	1/2X1/2	CSS128
CSS-108	1.12	.626	.50	1/4X1/4	CSS108	CSS-129	3.00	1.938	.88	1/2X1/2	CSS129
CSS-109	1.25	.688	.56	1/4X1/4	CSS109	CSS-130	3.00	2.001	.88	1/2X1/2	CSS130
CSS-110	1.25	.751	.56	1/4X1/4	CSS110	CSS-131	3.00	2.126	.88	1/2X1/2	CSS131
CSS-111	1.31	.813	.56	1/4X1/4	CSS111	CSS-132	3.25	2.188	.94	1/2X1/2	CSS132
CSS-112	1.50	.876	.56	1/4X1/4	CSS112	CSS-133	3.25	2.251	.94	1/2X1/2	CSS133
CSS-113	1.62	.938	.56	5/16X1/4	CSS113	CSS-134	3.25	2.313	.94	1/2X1/2	CSS134
CSS-114	1.62	1.001	.62	5/16X1/4	CSS114	CSS-135	3.25	2.376	.94	1/2X1/2	CSS135
CSS-115	1.75	1.063	.62	5/16X1/4	CSS115	CSS-136	3.50	2.438	1.00	1/2X1/2	CSS136
CSS-116	1.75	1.126	.62	5/16X1/4	CSS116	CSS-137	3.50	2.501	1.00	1/2X1/2	CSS137
CSS-117	2.00	1.094	.68	5/16X3/8	CSS117	CSS-138	3.75	2.563	1.12	1/2X9/16	CSS138
CSS-118	2.00	1.251	.68	5/16X3/8	CSS118	CSS-139	4.00	2.688	1.12	1/2X5/8	CSS139
CSS-119	2.12	1.313	.68	3/8X3/8	CSS116	CSS-140	4.00	2.751	1.12	1/2X5/8	CSS140
CSS-120	2.12	1.376	.75	3/8X3/8	CSS117	CSS-141	4.25	2.938	1.12	1/2X5/8	CSS141
CSS-121	2.25	1.438	.75	3/8X3/8	CSS118	CSS-142	4.25	3.001	1.12	1/2X5/8	CSS142

Material: 1018 C.R.S.

Heat Treat: NONE.

Finish: Black Oxide

Cup Point Socket Set Screw included.

Model Number Development
(For Special Sizes)

Detail Standard Set Screw Collar
CSS-1.875-2.75-.88-1/2-13X1/2

Collar Set Screw _____
 "A" Diameter _____
 "B" Diameter _____
 "C" Thickness _____
 "D" Cup Point Socket Set Screw _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items using "Model Number Development" format.

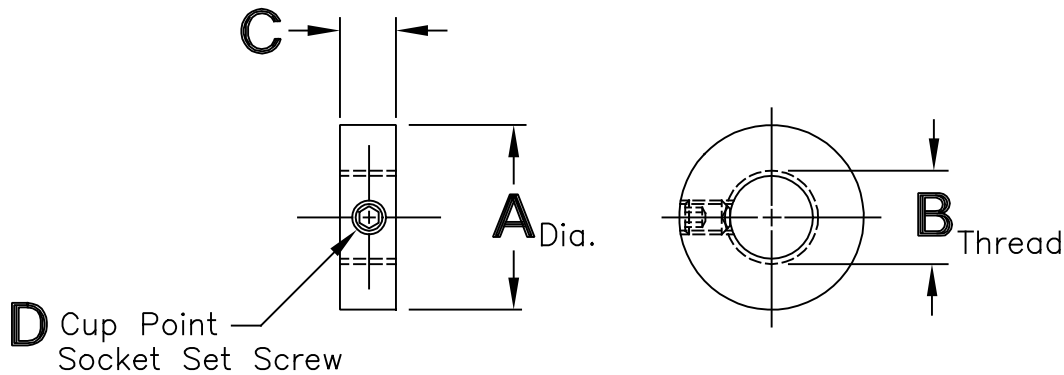
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MCSS-50-70-22-M10-1.5x12

Detail Standard Co.

THREADED SET SCREW COLLAR

Type CST

SEE PAGE E-32
FOR PLAIN BORE
STYLE



Part No.	A	B	C	D	CAD FILE	Part No.	A	B	C	D	CAD FILE
CST-101	.44	#10-32	.25	No.6X1/8	CST101	CST-122	2.25	1 1/2-6	.75	3/8X3/8	CST122
CST-102	.50	1/4-20	.28	No.6X1/8	CST102	CST-123	2.50	1"-8	.81	3/8X3/8	CST123
CST-103	.62	5/16-18	.34	No.8X1/8	CST103	CST-124	2.50	1 1/2-12	.81	3/8X3/8	CST124
CST-104	.75	3/8-16	.38	No.10X3/16	CST104	CST-125	2.50	1 1/2-6	.81	3/8X3/8	CST125
CST-105	.88	7/16-14	.44	No.10X1/4	CST105	CST-126	2.75	1 1/2-12	.88	1/2X1/2	CST126
CST-106	1.00	1/2-13	.44	No.10X1/4	CST106	CST-127	2.75	1 3/4-5	.88	1/2X1/2	CST127
CST-107	1.00	5/8-11	.44	No.10X1/4	CST107	CST-128	2.75	1 3/4-12	.88	1/2X1/2	CST128
CST-108	1.12	5/8-11	.50	1/4X1/4	CST108	CST-129	3.00	1"-8	.88	1/2X1/2	CST129
CST-109	1.25	5/8-11	.56	1/4X1/4	CST109	CST-130	3.00	1 1/2-6	.88	1/2X1/2	CST130
CST-110	1.25	3/4-10	.56	1/4X1/4	CST110	CST-131	3.00	2"-12	.88	1/2X1/2	CST131
CST-111	1.31	3/4-10	.56	1/4X1/4	CST111	CST-132	3.25	3/4-10	.94	1/2X1/2	CST132
CST-112	1.50	7/8-9	.56	1/4X1/4	CST112	CST-133	3.25	1"-8	.94	1/2X1/2	CST133
CST-113	1.62	1"-8	.56	5/16X1/4	CST113	CST-134	3.25	1 1/2-6	.94	1/2X1/2	CST134
CST-114	1.62	1"-8	.62	5/16X1/4	CST114	CST-135	3.25	2"-12	.94	1/2X1/2	CST135
CST-115	1.75	1"-8	.62	5/16X1/4	CST115	CST-136	3.50	1"-8	1.00	1/2X1/2	CST136
CST-116	1.75	1"-8	.62	5/16X1/4	CST116	CST-137	3.50	2"-12	1.00	1/2X1/2	CST137
CST-117	2.00	1"-8	.68	5/16X3/8	CST117	CST-138	3.75	2"-12	1.12	1/2X9/16	CST138
CST-118	2.00	1 1/4-7	.68	5/16X3/8	CST118	CST-139	4.00	2"-12	1.12	1/2X5/8	CST139
CST-119	2.12	1 1/4-7	.68	3/8X3/8	CST119	CST-140	4.00	2"-12	1.12	1/2X5/8	CST140
CST-120	2.12	1 1/4-7	.75	3/8X3/8	CST120	CST-141	4.25	2"-12	1.12	1/2X5/8	CST141
CST-121	2.25	1 1/2-6	.75	3/8X3/8	CST121	CST-142	4.25	2"-12	1.12	1/2X5/8	CST142

Material: 1018 C.R.S.

Heat Treat: NONE.

Finish: Black Oxide

Cup Point Socket Set Screw included.

Model Number Development
(For Special Sizes)

Detail Standard Set Screw Collar
CST-1.88-1/2-13-.88-1/2-13X1/2

Collar Set Screw _____
 "A" Diameter _____
 "B" Thread Size _____
 "C" Thickness _____
 "D" Cup Point Socket Set Screw _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
 Example: MCST-50-M12-1.75-22-M10-1.5x12

Detail Standard Co.

SECTION F

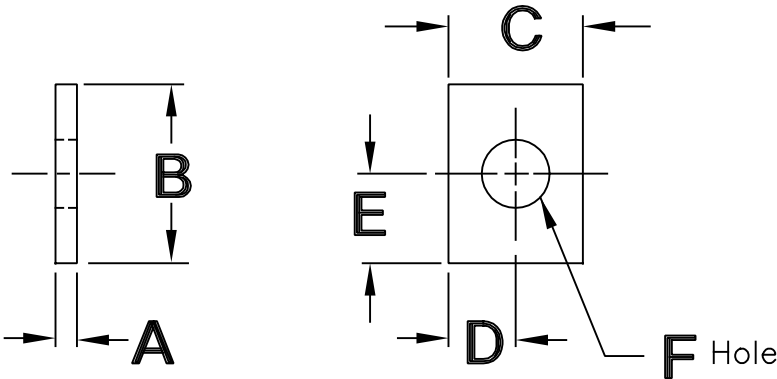
SPACERS, PLATES & PADS

Detail Standard Co.

SINGLE HOLE SHIM

Type SHS

SEE PAGE F-6
FOR SLOTTED
STYLE



Part No.	A	B	C	D	E	F
SHS-101	.12	.75	.75	.38	.38	.28
SHS-102	.25	.75	.75	.38	.38	.28
SHS-103	.12	1.00	1.00	.50	.50	.41
SHS-104	.25	1.00	1.00	.50	.50	.41
SHS-105	.12	1.50	1.00	.50	.75	.41
SHS-106	.25	1.50	1.00	.50	.75	.41
SHS-107	.12	2.00	1.00	.50	1.00	.41
SHS-108	.25	2.00	1.00	.50	1.00	.41
SHS-109	.12	1.50	1.50	.75	.75	.41
SHS-110	.25	1.50	1.50	.75	.75	.41
SHS-111	.25	1.25	2.00	1.00	.62	.41
SHS-112	.25	2.00	2.00	1.00	1.00	.53
SHS-113	.25	1.00	3.00	1.50	.50	.53
SHS-114	.25	1.50	3.00	1.50	.75	.53
SHS-115	.25	2.00	3.00	1.50	1.00	.53

Material: 1018 C.R.S.
Finish: Black Oxide

Model Number Development
(For Special Sizes)

Single Hole Shim

"A" Dimension
"B" Dimension
"C" Dimension
"D" Dimension
"E" Dimension
"F" Diameter

Detail Standard Single Hole Shim.
SHS -.25-2.00-3.00-1.50-1.00-.53

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

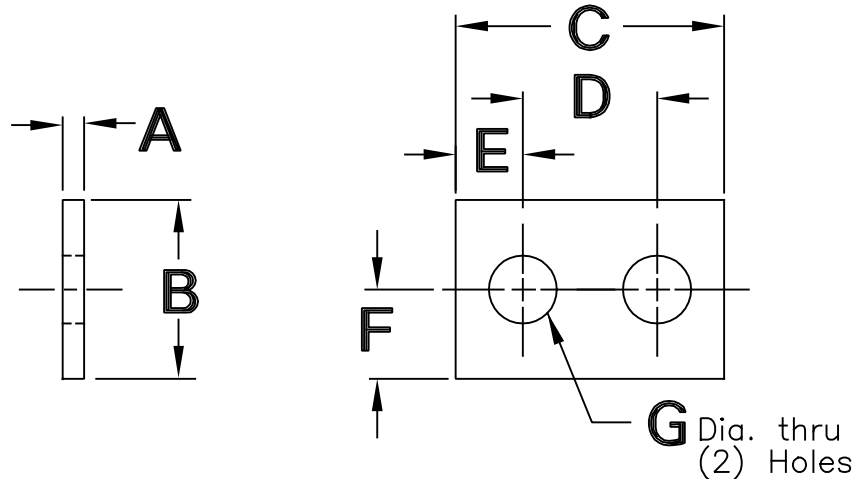
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSHS-6-50-76-32-25-13

Detail Standard Co.

DOUBLE HOLE SHIM

Type DHS

**SEE PAGE F-7
FOR SLOTTED
STYLE**



Part No.	A	B	C	D	E	F	G
DHS-101	.12	.75	1.50	.750	.38	.38	.28
DHS-102	.12	1.00	2.00	1.250	.38	.50	.34
DHS-103	.25	1.00	2.50	1.500	.50	.50	.41
DHS-104	.25	1.00	3.00	2.000	.50	.50	.41
DHS-105	.25	1.50	3.00	2.000	.50	.75	.41
DHS-106	.25	1.25	3.50	2.500	.50	.62	.41
DHS-107	.25	2.00	3.50	2.500	.50	1.00	.41
DHS-108	.25	1.50	4.00	3.000	.50	.75	.41
DHS-109	.25	2.00	4.00	2.500	.75	1.00	.53
DHS-110	.25	1.50	4.50	3.000	.75	.75	.53
DHS-111	.25	2.00	4.50	3.000	.75	1.00	.68
DHS-112	.25	2.00	5.00	3.500	.75	1.00	.53
DHS-113	.38	3.00	5.00	3.000	1.00	1.50	.68
DHS-114	.25	3.50	6.00	4.750	.62	1.75	.53
DHS-115	.38	4.00	6.00	4.000	1.00	2.00	.68

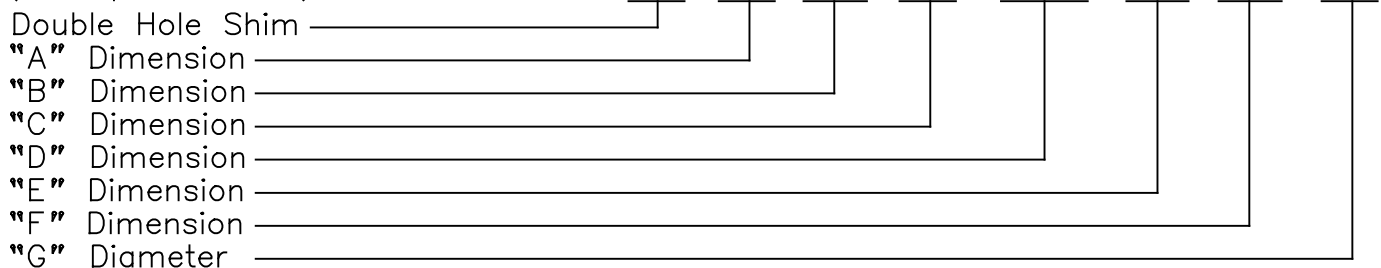
Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Double Hole Shim.

DHS - .38 - 4.00 - 6.00 - 4.000 - 1.00 - 2.00 - .68



NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

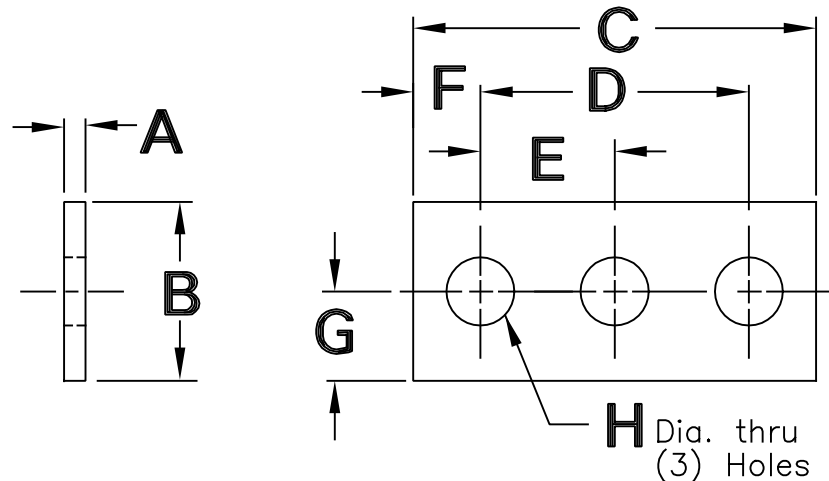
Example: MDHS-10-100-150-100-25-50-17

Detail Standard Co.

TRIPLE HOLE SHIM

Type THS

SEE PAGE F-8
FOR SLOTTED
STYLE



Part No.	A	B	C	D	E	F	G	H
THS-101	.12	.75	2.00	1.250	.625	.38	.38	.34
THS-102	.25	.75	2.00	1.250	.625	.38	.38	.34
THS-103	.12	1.00	2.50	1.500	.750	.50	.50	.34
THS-104	.25	1.00	2.50	1.500	.750	.50	.50	.34
THS-105	.25	1.25	3.00	2.000	1.000	.50	.62	.41
THS-106	.25	1.25	3.50	2.250	1.125	.62	.62	.41
THS-107	.25	1.50	3.00	2.000	1.000	.50	.75	.41
THS-108	.25	1.50	4.00	2.500	1.250	.75	.75	.53
THS-109	.25	2.00	4.00	3.000	1.500	.50	1.00	.41
THS-110	.25	2.00	4.00	2.500	1.250	.75	1.00	.53
THS-111	.25	2.00	5.00	3.500	1.750	.75	1.00	.53
THS-112	.25	2.50	5.00	3.500	1.750	.75	1.25	.53
THS-113	.38	2.50	5.00	3.500	1.750	.75	1.25	.68
THS-114	.25	3.00	6.00	4.000	2.000	1.00	1.50	.68
THS-115	.38	3.00	6.00	4.000	2.000	1.00	1.50	.81

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Triple Hole Shim.

THS - .38 - 3.00 - 6.00 - 4.000 - 2.000 - 1.00 - 1.50 - .81

Triple Hole Shim

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Dimension

"G" Dimension

"H" Diameter

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

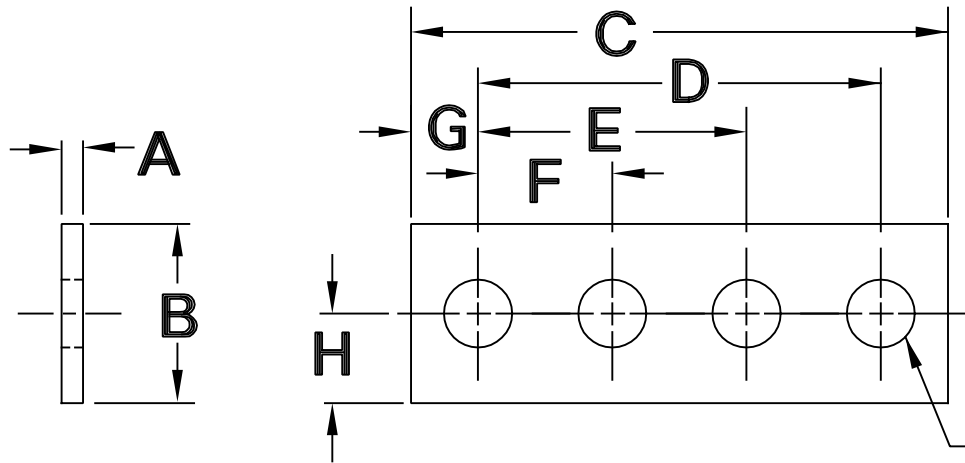
Example: MTHS-10-76-150-100-50-25-32-21

Detail Standard Co.

FOUR HOLE SHIM

Type QHSL

SEE PAGE F-9
FOR SLOTTED
STYLE



J Dia. thru
(4) Holes

Part No.	A	B	C	D	E	F	G	H	J
QHSL-101	.12	.75	2.00	1.312	.875	.438	.34	.38	.28
QHSL-102	.25	.75	2.00	1.312	.875	.438	.34	.38	.28
QHSL-103	.12	1.00	2.50	1.500	1.000	.500	.50	.50	.34
QHSL-104	.25	1.00	2.50	1.500	1.000	.500	.50	.50	.34
QHSL-105	.25	1.25	3.00	1.750	1.250	.625	.62	.62	.41
QHSL-106	.25	1.25	3.50	2.250	1.500	.750	.62	.62	.41
QHSL-107	.25	1.50	3.00	1.750	1.250	.625	.50	.62	.41
QHSL-108	.25	1.50	4.00	2.625	1.750	.875	.68	.75	.53
QHSL-109	.25	2.00	4.00	3.000	2.000	1.000	.50	1.00	.41
QHSL-110	.25	2.00	4.00	2.625	1.750	.875	.68	1.00	.53
QHSL-111	.25	2.00	5.00	3.375	2.250	1.125	.81	1.00	.53
QHSL-112	.25	2.50	5.00	3.375	2.250	1.125	.81	1.25	.53
QHSL-113	.38	2.50	5.00	3.750	2.500	1.250	.62	1.25	.68
QHSL-114	.25	3.00	6.00	3.750	2.500	1.250	1.12	1.50	.68
QHSL-115	.38	3.00	6.00	3.750	2.500	1.250	1.12	1.50	.81

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development

Detail Standard Four Hole Shim.

(For Special Sizes) QHSL-.25-1.25-6.00-4.500-3.500-1.00-.75-.62-.28

Four Hole Shim _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Dimension _____

"E" Dimension _____

"F" Dimension _____

"G" Dimension _____

"H" Dimension _____

"J" Diameter _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

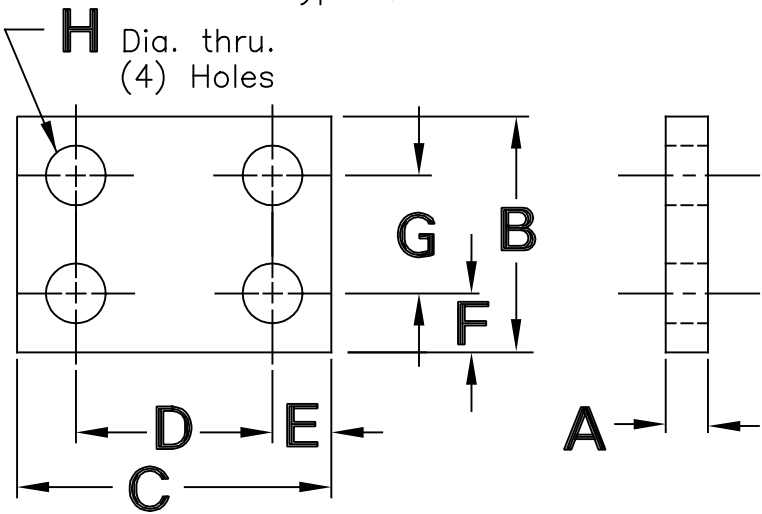
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MQHSL-6-32-150-114-57-25-19-16-7

Detail Standard Co.

FOUR HOLE SHIM

Type QHS



Part No.	A	B	C	D	E	F	G	H
QHS-101	.12	1.50	1.50	.750	.38	.38	.750	.34
QHS-102	.25	1.50	1.50	.750	.38	.38	.750	.34
QHS-103	.12	1.50	2.00	1.250	.38	.38	.750	.34
QHS-104	.25	1.50	2.00	1.250	.38	.38	.750	.34
QHS-105	.12	2.00	3.50	2.000	.75	.56	.875	.34
QHS-106	.25	2.00	3.50	2.000	.75	.56	.875	.34
QHS-107	.12	2.25	3.25	2.500	.38	.38	1.500	.41
QHS-108	.38	2.25	3.25	2.500	.38	.38	1.500	.41
QHS-109	.25	3.00	5.00	4.000	.50	.50	2.000	.41
QHS-110	.25	3.00	6.00	5.000	.50	.50	2.000	.41
QHS-111	.25	3.50	6.00	5.000	.50	.50	2.500	.41
QHS-112	.25	3.50	6.00	4.750	.62	.62	2.250	.53
QHS-113	.50	3.50	6.00	4.750	.62	.62	2.250	.53
QHS-114	.25	4.00	7.00	5.750	.62	.62	2.750	.53
QHS-115	.50	4.00	8.00	6.500	.75	.75	2.500	.68

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development

(For Special Sizes)

Detail Standard Four Hole Shim.

Four Hole Shim	QHS	-.50	- 4.00	- 8.00	- 6.500	- .75	- .75	- 2.500	-.68
"A" Dimension									
"B" Dimension									
"C" Dimension									
"D" Dimension									
"E" Dimension									
"F" Dimension									
"G" Dimension									
"H" Diameter									

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

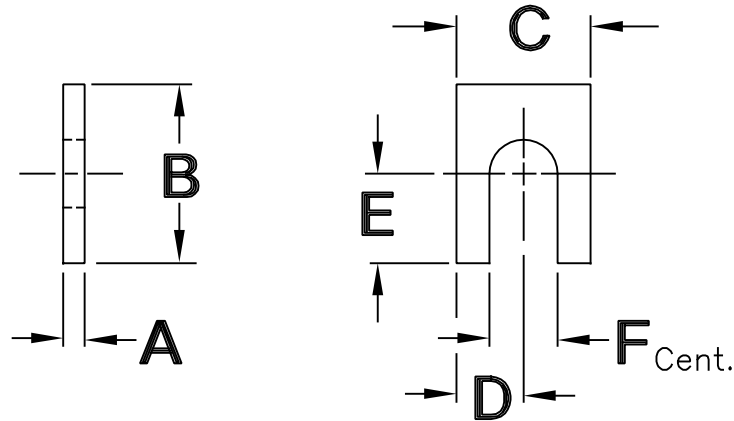
Example: MQHS-12-100-200-160-20-20-60-17

Detail Standard Co.

SINGLE SLOTTED SHIM

Type SLS

SEE PAGE F-1
FOR HOLE STYLE



Part No.	A	B	C	D	E	F
SLS-101	.12	.75	.75	.38	.38	.28
SLS-102	.25	.75	.75	.38	.38	.28
SLS-103	.12	1.00	1.00	.50	.50	.41
SLS-104	.25	1.00	1.00	.50	.50	.41
SLS-105	.12	1.50	1.00	.50	.75	.41
SLS-106	.25	1.50	1.00	.50	.75	.41
SLS-107	.12	2.00	1.00	.50	1.00	.41
SLS-108	.25	2.00	1.00	.50	1.00	.41
SLS-109	.12	1.50	1.50	.75	.75	.41
SLS-110	.25	1.50	1.50	.75	.75	.41
SLS-111	.25	1.25	2.00	1.00	.62	.41
SLS-112	.25	2.00	2.00	1.00	1.00	.53
SLS-113	.25	1.00	3.00	1.50	.50	.53
SLS-114	.25	1.50	3.00	1.50	.75	.53
SLS-115	.25	2.00	3.00	1.50	1.00	.53

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development

(For Special Sizes)

Single Slotted Shim

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Slot

Detail Standard Single Slotted Shim.

SLS -.25-2.00-3.00-1.50-1.00-.53

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

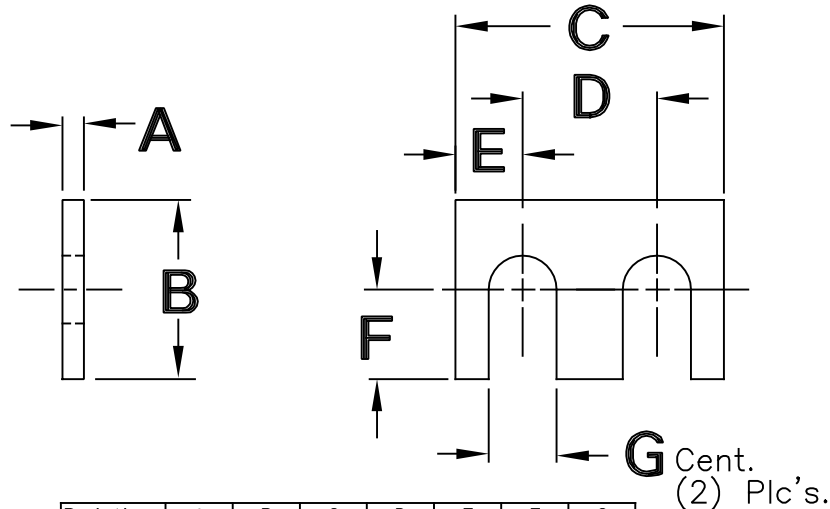
Example: MSLS-6-50-76-32-25-13

Detail Standard Co.

DOUBLE SLOTTED SHIM

Type DSLS

SEE PAGE F-2
FOR HOLE STYLE



Part No.	A	B	C	D	E	F	G
DSLS-101	.12	.75	1.50	.750	.38	.38	.28
DSLS-102	.12	1.00	2.00	1.250	.38	.50	.34
DSLS-103	.25	1.00	2.50	1.500	.50	.50	.41
DSLS-104	.25	1.00	3.00	2.000	.50	.50	.41
DSLS-105	.25	1.50	3.00	2.000	.50	.75	.41
DSLS-106	.25	1.25	3.50	2.500	.50	.62	.41
DSLS-107	.25	2.00	3.50	2.500	.50	1.00	.41
DSLS-108	.25	1.50	4.00	3.000	.50	.75	.41
DSLS-109	.25	2.00	4.00	2.500	.75	1.00	.53
DSLS-110	.25	1.50	4.50	3.000	.75	.75	.53
DSLS-111	.25	2.00	4.50	3.000	.75	1.00	.68
DSLS-112	.25	2.00	5.00	3.500	.75	1.00	.53
DSLS-113	.38	3.00	5.00	3.000	1.00	1.50	.68
DSLS-114	.25	3.50	6.00	4.750	.62	1.75	.53
DSLS-115	.38	4.00	6.00	4.000	1.00	2.00	.68

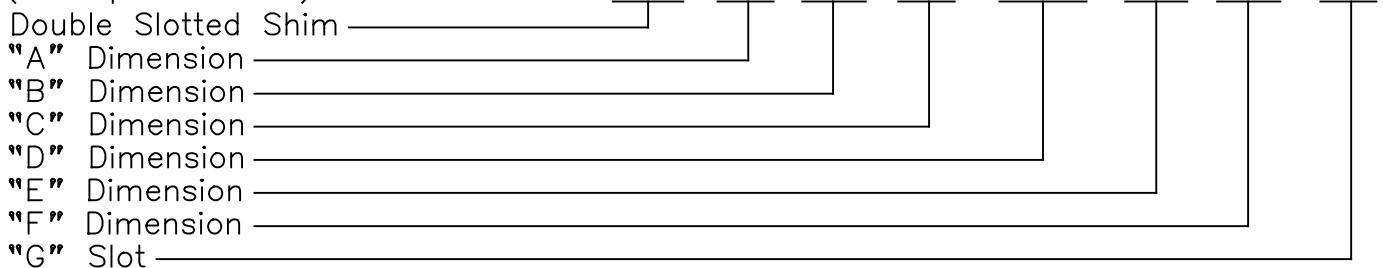
Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Double Slotted Shim.

DSLS-.38-4.00-6.00-4.000-1.00-2.00-.68



NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

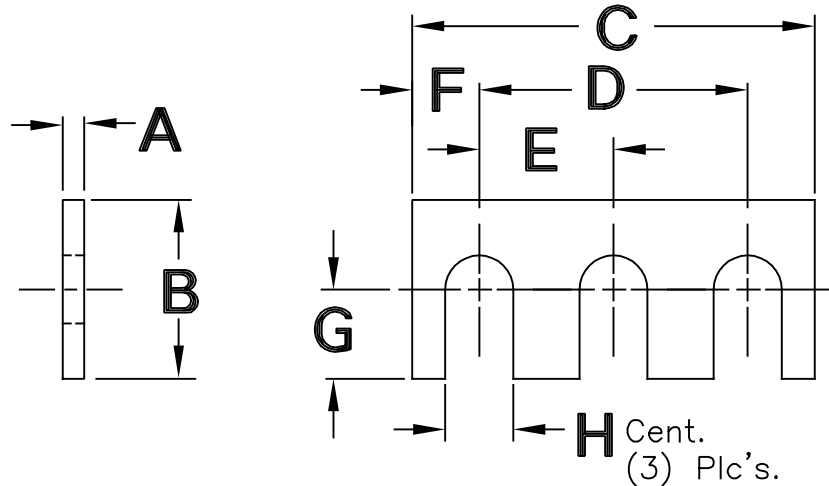
Example: MDSLS-10-100-150-100-25-50-17

Detail Standard Co.

TRIPLE SLOTTED SHIM

Type TSLS

SEE PAGE F-3
FOR HOLE STYLE



Part No.	A	B	C	D	E	F	G	H
TSLS-101	.12	.75	2.00	1.250	.625	.38	.38	.34
TSLS-102	.25	.75	2.00	1.250	.625	.38	.38	.34
TSLS-103	.12	1.00	2.50	1.500	.750	.50	.50	.34
TSLS-104	.25	1.00	2.50	1.500	.750	.50	.50	.34
TSLS-105	.25	1.25	3.00	2.000	1.000	.50	.62	.41
TSLS-106	.25	1.25	3.50	2.250	1.125	.62	.62	.41
TSLS-107	.25	1.50	3.00	2.000	1.000	.50	.75	.41
TSLS-108	.25	1.50	4.00	2.500	1.250	.75	.75	.53
TSLS-109	.25	2.00	4.00	3.000	1.500	.50	1.00	.41
TSLS-110	.25	2.00	4.00	2.500	1.250	.75	1.00	.53
TSLS-111	.25	2.00	5.00	3.500	1.750	.75	1.00	.53
TSLS-112	.25	2.50	5.00	3.500	1.750	.75	1.25	.53
TSLS-113	.38	2.50	5.00	3.500	1.750	.75	1.25	.68
TSLS-114	.25	3.00	6.00	4.000	2.000	1.00	1.50	.68
TSLS-115	.38	3.00	6.00	4.000	2.000	1.00	1.50	.81

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development Detail Standard Triple Slotted Shim.

(For Special Sizes) TSLS-.38-3.00-6.00-4.000-2.000-1.00-1.50-.81

Triple Slotted Shim _____
 "A" Dimension _____
 "B" Dimension _____
 "C" Dimension _____
 "D" Dimension _____
 "E" Dimension _____
 "F" Dimension _____
 "G" Dimension _____
 "H" Slot _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

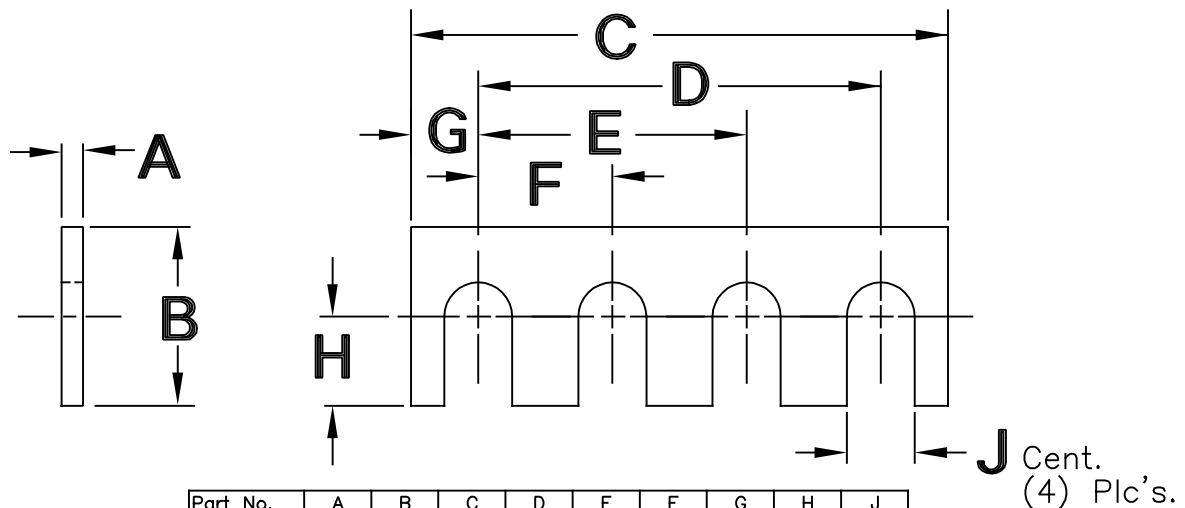
Example: MTSLS-10-76-150-100-50-25-32-21

Detail Standard Co.

FOUR SLOTTED SHIM

SEE PAGE F-4
FOR HOLE STYLE

Type QSLS



Part No.	A	B	C	D	E	F	G	H	J
QSLS-101	.12	.75	2.00	1.312	.875	.438	.34	.38	.28
QSLS-102	.25	.75	2.00	1.312	.875	.438	.34	.38	.28
QSLS-103	.12	1.00	2.50	1.500	1.000	.500	.50	.50	.34
QSLS-104	.25	1.00	2.50	1.500	1.000	.500	.50	.50	.34
QSLS-105	.25	1.25	3.00	1.750	1.250	.625	.62	.62	.41
QSLS-106	.25	1.25	3.50	2.250	1.500	.750	.62	.62	.41
QSLS-107	.25	1.50	3.00	1.750	1.250	.625	.50	.62	.41
QSLS-108	.25	1.50	4.00	2.625	1.750	.875	.68	.75	.53
QSLS-109	.25	2.00	4.00	3.000	2.000	1.000	.50	1.00	.41
QSLS-110	.25	2.00	4.00	2.625	1.750	.875	.68	1.00	.53
QSLS-111	.25	2.00	5.00	3.375	2.250	1.125	.81	1.00	.53
QSLS-112	.25	2.50	5.00	3.375	2.250	1.125	.81	1.25	.53
QSLS-113	.38	2.50	5.00	3.750	2.500	1.250	.62	1.25	.68
QSLS-114	.25	3.00	6.00	3.750	2.500	1.250	1.12	1.50	.68
QSLS-115	.38	3.00	6.00	3.750	2.500	1.250	1.12	1.50	.81

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development Detail Standard Four Slotted Shim.

(For Special Sizes) QSLS-.25-1.25-6.00-4.500-3.500-1.00-.75-.62-.28

Four Slotted Shim _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Dimension _____

"E" Dimension _____

"F" Dimension _____

"G" Dimension _____

"H" Dimension _____

"J" Slot _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

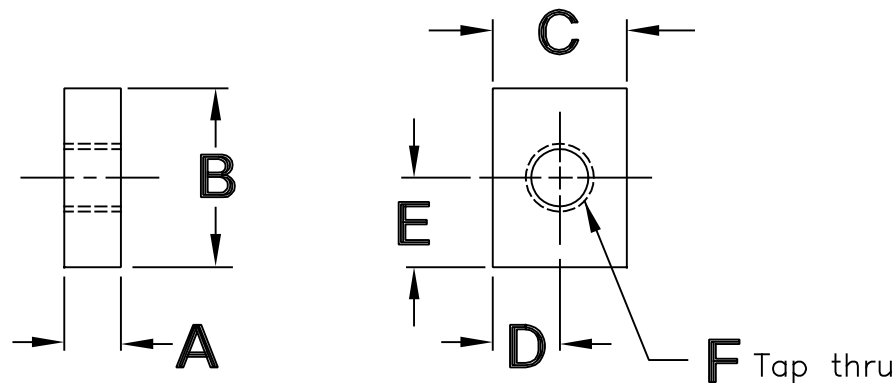
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MQSLS-6-32-150-114-57-25-19-16-7

Detail Standard Co.

SINGLE HOLE TAP PAD

Type STP



Part No.	A	B	C	D	E	F
STP-101	.25	.75	.75	.38	.38	1/4-20
STP-102	.38	.75	.75	.38	.38	1/4-20
STP-103	.38	1.00	1.00	.50	.50	3/8-16
STP-104	.50	1.00	1.00	.50	.50	3/8-16
STP-105	.38	1.50	1.00	.50	.75	3/8-16
STP-106	.50	1.50	1.00	.50	.75	3/8-16
STP-107	.38	2.00	1.00	.50	1.00	3/8-16
STP-108	.50	2.00	1.00	.50	1.00	3/8-16
STP-109	.38	1.50	1.50	.75	.75	3/8-16
STP-110	.50	1.50	1.50	.75	.75	3/8-16
STP-111	.50	1.25	2.00	1.00	.62	3/8-16
STP-112	.75	2.00	2.00	1.00	1.00	1/2-13
STP-113	.75	1.00	3.00	1.50	.50	1/2-13
STP-114	.75	1.50	3.00	1.50	.75	1/2-13
STP-115	.75	2.00	3.00	1.50	1.00	1/2-13

Material: 1018 C.R.S.
Finish: Black Oxide

Model Number Development
(For Special Sizes)

Single Hole Tap Pad

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Tap

Detail Standard Single Hole Tap Pad

STP -.75- 2.00 -3.00-1.50-1.00-1/2-13

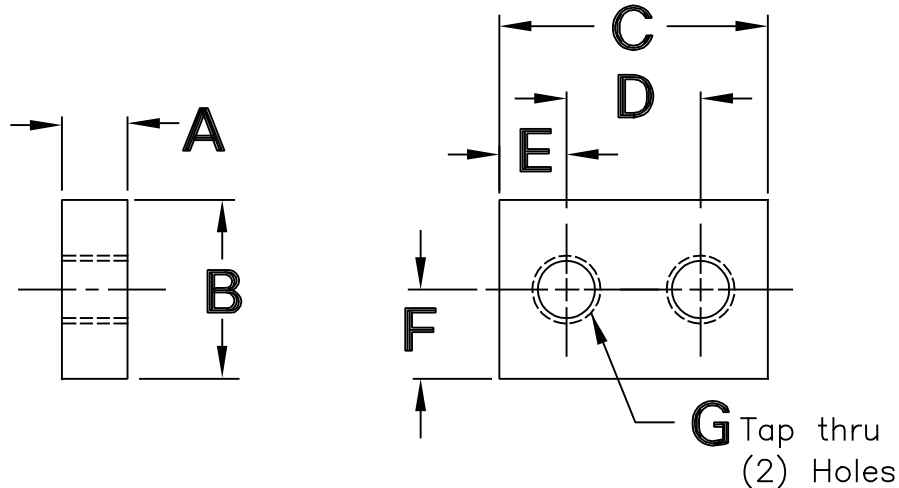
NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.
Example: MSTP-20-50-76-32-25-M12-1.75

Detail Standard Co.

DOUBLE HOLE TAP PAD

Type DTP



Part No.	A	B	C	D	E	F	G
DTP-101	.38	.75	1.50	.750	.38	.38	1/4-20
DTP-102	.50	1.00	2.00	1.250	.38	.50	5/16-18
DTP-103	.50	1.00	2.50	1.500	.50	.50	3/8-16
DTP-104	.50	1.00	3.00	2.000	.50	.50	3/8-16
DTP-105	.50	1.50	3.00	2.000	.50	.75	3/8-16
DTP-106	.50	1.25	3.50	2.500	.50	.62	3/8-16
DTP-107	.75	2.00	3.50	2.500	.50	1.00	3/8-16
DTP-108	.50	1.50	4.00	3.000	.50	.75	3/8-16
DTP-109	.75	2.00	4.00	2.500	.75	1.00	1/2-13
DTP-110	.62	1.50	4.50	3.000	.75	.75	1/2-13
DTP-111	.75	2.00	4.50	3.000	.75	1.00	5/8-11
DTP-112	.62	2.00	5.00	3.500	.75	1.00	1/2-13
DTP-113	.75	3.00	5.00	3.000	1.00	1.50	5/8-11
DTP-114	.62	3.50	6.00	4.750	.62	1.75	1/2-13
DTP-115	.75	4.00	6.00	4.000	1.00	2.00	5/8-11

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Double Hole Tap Pad.

DTP -.75- 4.00 -6.00- 4.000 -1.00- 2.00 -5/8-11

Double Hole Tap Pad

"A" Dimension

"B" Dimension

"C" Dimension

"D" Dimension

"E" Dimension

"F" Dimension

"G" Tap

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

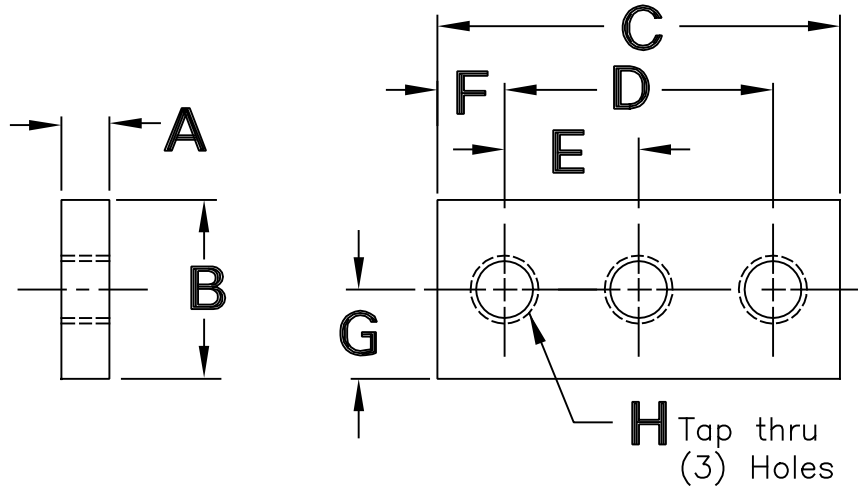
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MDTP-20-100-150-100-25-50-M16-2

Detail Standard Co.

TRIPLE HOLE TAP PAD

Type TTP



Part No.	A	B	C	D	E	F	G	H
TTP-101	.38	.75	2.00	1.250	.625	.38	.38	5/16-18
TTP-102	.50	.75	2.00	1.250	.625	.38	.38	5/16-18
TTP-103	.38	1.00	2.50	1.500	.750	.50	.50	5/16-18
TTP-104	.50	1.00	2.50	1.500	.750	.50	.50	5/16-18
TTP-105	.50	1.25	3.00	2.000	1.000	.50	.62	3/8-16
TTP-106	.50	1.25	3.50	2.250	1.125	.62	.62	3/8-16
TTP-107	.50	1.50	3.00	2.000	1.000	.50	.75	3/8-16
TTP-108	.75	1.50	4.00	2.500	1.250	.75	.75	1/2-13
TTP-109	.50	2.00	4.00	3.000	1.500	.50	1.00	3/8-16
TTP-110	.75	2.00	4.00	2.500	1.250	.75	1.00	1/2-13
TTP-111	.75	2.00	5.00	3.500	1.750	.75	1.00	1/2-13
TTP-112	.75	2.50	5.00	3.500	1.750	.75	1.25	1/2-13
TTP-113	.75	2.50	5.00	3.500	1.750	.75	1.25	5/8-11
TTP-114	1.00	3.00	6.00	4.000	2.000	1.00	1.50	5/8-11
TTP-115	1.00	3.00	6.00	4.000	2.000	1.00	1.50	3/4-10

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development
(For Special Sizes)

Detail Standard Triple Hole Tap Pad.

	TTP	-1.00	-3.00	-6.00	-4.000	-2.000	-1.00	-1.50	-3/4-10
Triple Hole Tap Pad									
"A" Dimension									
"B" Dimension									
"C" Dimension									
"D" Dimension									
"E" Dimension									
"F" Dimension									
"G" Dimension									
"H" Tap									

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

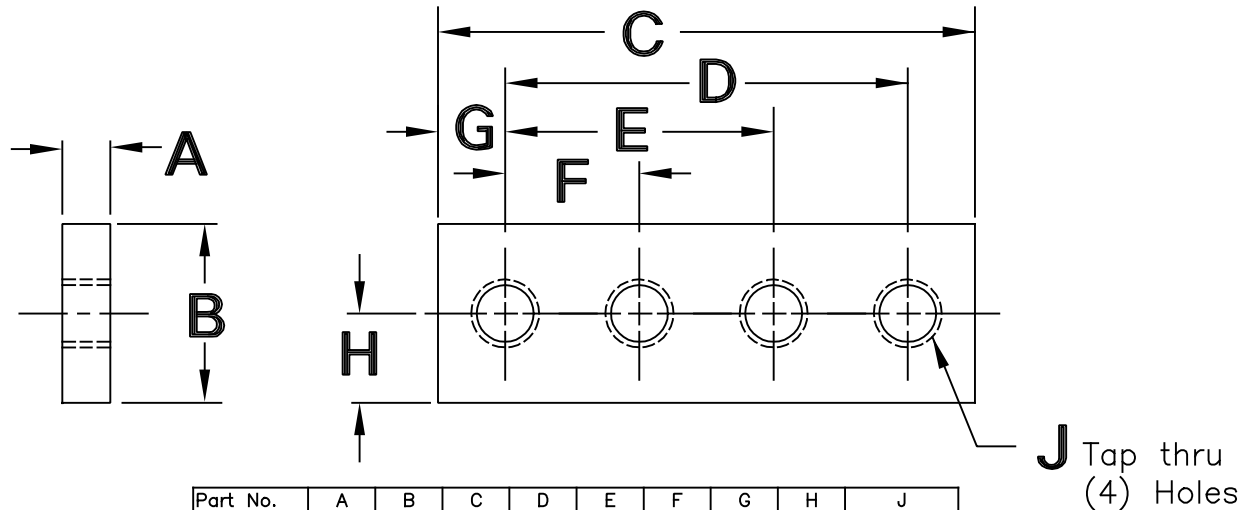
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MTP-25-76-150-100-50-25-32-M20-2.5

Detail Standard Co.

FOUR HOLE TAP PAD

Type QTPL



Part No.	A	B	C	D	E	F	G	H	J
QTPL-101	.38	.75	2.00	1.312	.875	.438	.34	.38	1/4-20
QTPL-102	.50	.75	2.00	1.312	.875	.438	.34	.38	1/4-20
QTPL-103	.38	1.00	2.50	1.500	1.000	.500	.50	.50	5/16-18
QTPL-104	.50	1.00	2.50	1.500	1.000	.500	.50	.50	5/16-18
QTPL-105	.50	1.25	3.00	1.750	1.250	.625	.62	.62	3/8-16
QTPL-106	.50	1.25	3.50	2.250	1.500	.750	.62	.62	3/8-16
QTPL-107	.50	1.50	3.00	1.750	1.250	.625	.50	.62	3/8-16
QTPL-108	.75	1.50	4.00	2.625	1.750	.875	.68	.75	1/2-13
QTPL-109	.50	2.00	4.00	3.000	2.000	1.000	.50	1.00	3/8-16
QTPL-110	.75	2.00	4.00	2.625	1.750	.875	.68	1.00	1/2-13
QTPL-111	.75	2.00	5.00	3.375	2.250	1.125	.81	1.00	1/2-13
QTPL-112	.75	2.50	5.00	3.375	2.250	1.125	.81	1.25	1/2-13
QTPL-113	.75	2.50	5.00	3.750	2.500	1.250	.62	1.25	5/8-11
QTPL-114	1.00	3.00	6.00	3.750	2.500	1.250	1.12	1.50	5/8-11
QTPL-115	1.00	3.00	6.00	3.750	2.500	1.250	1.12	1.50	3/4-10

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development

Detail Standard Four Hole Shim.

(For Special Sizes) QTPL - .25 - 1.25 - 6.00 - 4.500 - 3.500 - 1.00 - .75 - .62 - 1/4-20

Four Hole Tap Pad _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Dimension _____

"E" Dimension _____

"F" Dimension _____

"G" Dimension _____

"H" Dimension _____

"J" Tap _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

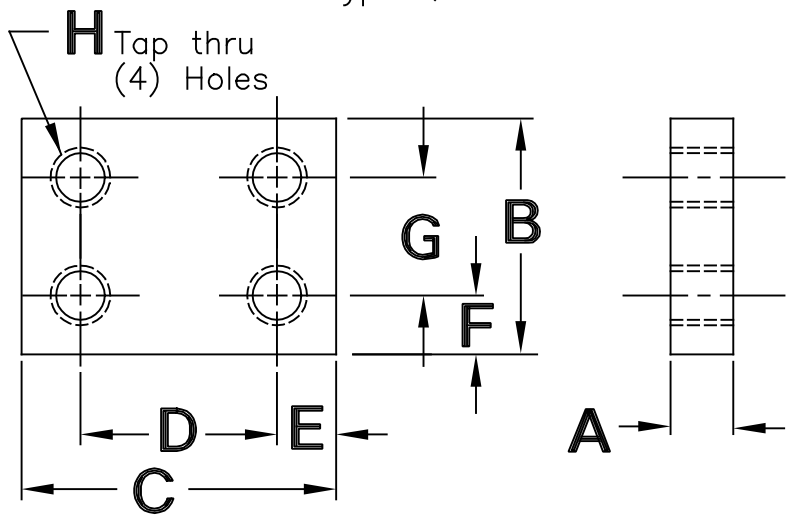
To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MQTPL-12-32-150-114-57-25-19-16-M12-1.75

Detail Standard Co.

FOUR HOLE TAP PAD

Type QTP



Part No.	A	B	C	D	E	F	G	H
QTP-101	.38	1.50	1.50	.750	.38	.38	.750	5/16-18
QTP-102	.50	1.50	1.50	.750	.38	.38	.750	5/16-18
QTP-103	.38	1.50	2.00	1.250	.38	.38	.750	5/16-18
QTP-104	.50	1.50	2.00	1.250	.38	.38	.750	5/16-18
QTP-105	.38	2.00	3.50	2.000	.75	.56	.875	5/16-18
QTP-106	.50	2.00	3.50	2.000	.75	.56	.875	5/16-18
QTP-107	.50	2.25	3.25	2.500	.38	.38	1.500	3/8-16
QTP-108	.75	2.25	3.25	2.500	.38	.38	1.500	3/8-16
QTP-109	.50	3.00	5.00	4.000	.50	.50	2.000	3/8-16
QTP-110	.50	3.00	6.00	5.000	.50	.50	2.000	3/8-16
QTP-111	.50	3.50	6.00	5.000	.50	.50	2.500	3/8-16
QTP-112	.75	3.50	6.00	4.750	.62	.62	2.250	1/2-13
QTP-113	1.00	3.50	6.00	4.750	.62	.62	2.250	1/2-13
QTP-114	.75	4.00	7.00	5.750	.62	.62	2.750	1/2-13
QTP-115	.75	4.00	8.00	6.500	.75	.75	2.500	5/8-11

Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development

Detail Standard Four Hole Tap Pad

(For Special Sizes) QTP -.75- 4.00-8.00- 6.500-.75-.75 -2.500- 5/8-11

Four Hole Tap Pad _____

"A" Dimension _____

"B" Dimension _____

"C" Dimension _____

"D" Dimension _____

"E" Dimension _____

"F" Dimension _____

"G" Dimension _____

"H" Tap _____

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

To order this product METRIC, use 'M' before the model number and millimeters for dimensions.

Example: MQTP-20-100-200-160-20-20-60-M14-2

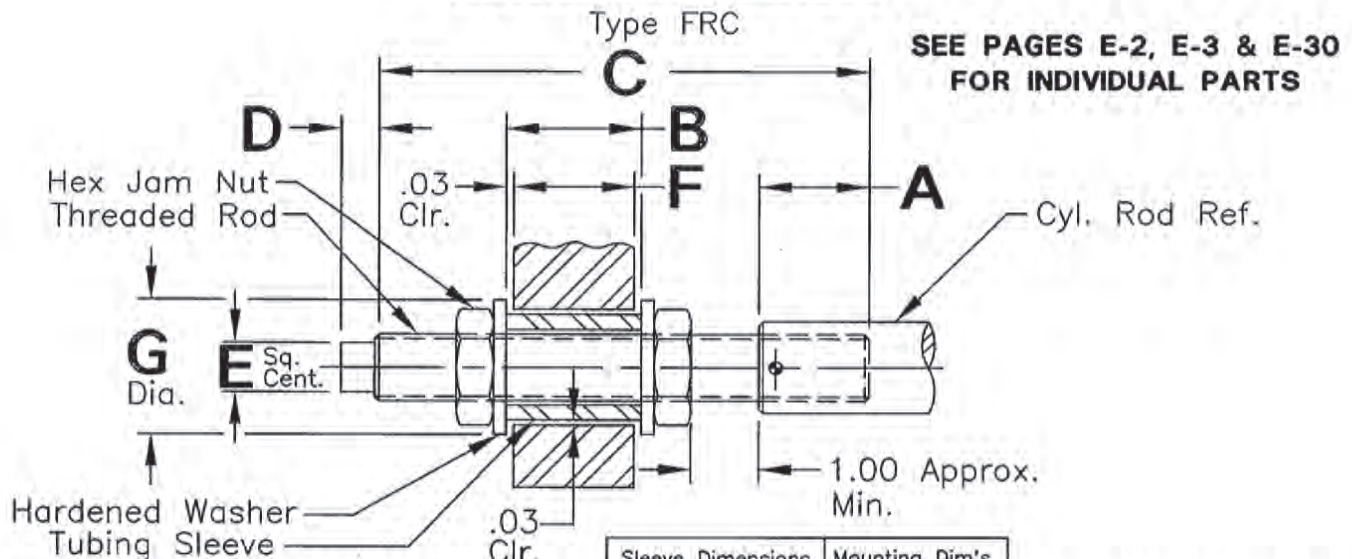
Detail Standard Co.

SECTION G

AUTOMATION COMPONENTS

Detail Standard Co.

FLOATING ROD COUPLER



Part No.	Cyl. Rod.	Thread Size	A	Washer No.	G	Sleeve Dimensions.		Mounting Dim's.				D	E	CAD FILE NO.
						O.D.	I.D.	B	Hole Dia.	F	C			
FRC-101	.500	5/16-24	.625	HW-101	.88	.750	.375	.562	.81	.50	4.00	.18	.18	FRC101
FRC-102	N/A	3/8-16	N/A	HW-102	1.00	.812	.438	.687	.88	.62	5.00	.25	.25	FRC102
FRC-103	.625	7/16-20	.750	HW-103	1.12	.875	.500	.812	.94	.75	5.00	.25	.31	FRC103
FRC-104	N/A	1/2-13	N/A	HW-106	1.25	.938	.562	1.062	1.00	1.00	6.00	.31	.38	FRC104
FRC-105	N/A	1/2-20	N/A	HW-106	1.25	.938	.562	1.062	1.00	1.00	6.00	.31	.38	FRC105
FRC-106	N/A	5/8-11	N/A	HW-114	1.50	1.125	.688	1.062	1.18	1.00	6.00	.38	.50	FRC106
FRC-107	N/A	5/8-18	N/A	HW-114	1.50	1.125	.688	1.062	1.18	1.00	6.00	.38	.50	FRC107
FRC-108	1.000	3/4-16	1.125	HW-120	1.62	1.250	.812	1.312	1.32	1.25	6.00	.50	.62	FRC108
FRC-109	1.375	1-14	1.625	HW-130	2.00	1.500	1.062	1.562	1.56	1.50	7.00	.50	.75	FRC109
FRC-110	1.750	1 1/4-12	2.000	HW-135	2.50	1.750	1.312	2.062	1.81	2.00	8.00	.50	1.00	FRC110

Threaded Rod

Material: Alloy Steel (Stud Stock) ASTM Spec. A-193
Heat Treat: Brinell 275-310 Stress Relieved
Finish: Black Oxide

Tubing Spacer

Material: Welded D.O.M. 1020/1026 Steel or Cold Drawn Seamless
Heat Treat: None
Finish: Black Oxide

Hardened Washer

Material: 1020 H.R.S.
Heat Treat: Carb. And Hdn., Rock "C" 55-60, .03 Min. Case.
Finish: Black Oxide

Model Number Development

(For Special Sizes)

Floating Rod Coupler

Thread Size

Hardened Washer

Outside Diameter Sleeve

Inside Diameter Sleeve

"B" Length

"C" Length

Detail Standard Floating Rod Coupler

FRC-1-14-HW-130-1.50-1.062-1.562-6.00

NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items using "Model Number Development" format.

Detail Standard Co.

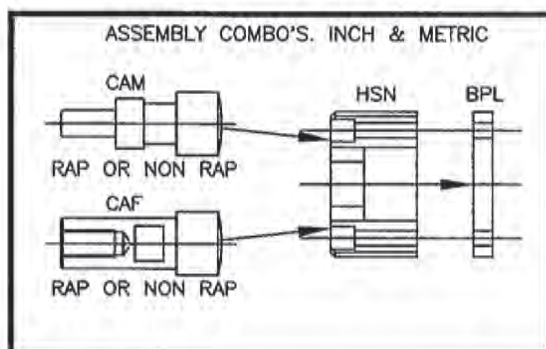
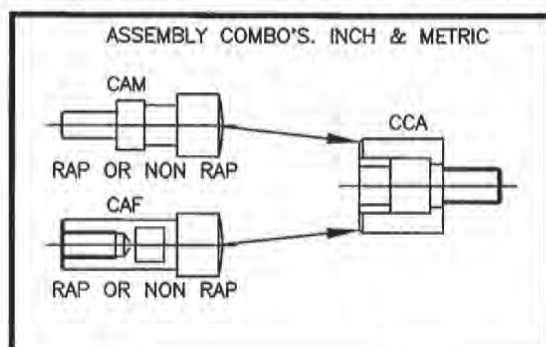
CYLINDER COUPLER ADAPTER & CYLINDER ADAPTER ASSEMBLY MATREX

SEE PAGES G-6 TO G-15
FOR INDIVIDUAL PARTS

INCH

Part No.	Part No.	Part No.	Part No.
CAM-101R	CCA-101	HSN-101	BPL-101
CAM-101N	CCA-101	HSN-101	BPL-101
CAM-102R	CCA-102	HSN-102	BPL-102
CAM-102N	CCA-102	HSN-102	BPL-102
CAM-103R	CCA-103	HSN-103	BPL-103
CAM-103N	CCA-103	HSN-103	BPL-103

CAF-102R	CCA-102	HSN-102	BPL-102
CAF-102N	CCA-102	HSN-102	BPL-102
CAF-103R	CCA-103	HSN-103	BPL-103
CAF-103N	CCA-103	HSN-103	BPL-103
CAF-104N		HSN-104	BPL-104



METRIC

Part No.	Part No.	Part No.	Part No.
MCAM-101R	MCCA-101	MHSN-101	MBPL-101
MCAM-101N	MCCA-101	MHSN-101	MBPL-101
MCAM-102R	MCCA-102	MHSN-102	MBPL-102
MCAM-102N	MCCA-102	MHSN-102	MBPL-102
MCAM-103R	MCCA-103	MHSN-103	MBPL-103
MCAM-103N	MCCA-103	MHSN-103	MBPL-103
MCAM-104R	MCCA-104	MHSN-104	MBPL-104
MCAM-104N	MCCA-104	MHSN-104	MBPL-104
MCAM-105R	MCCA-105		
MCAM-105N	MCCA-105		
MCAM-106R	MCCA-106		
MCAM-106N	MCCA-106		
MCAM-107R	MCCA-107	MHSN-107	MBPL-107
MCAM-107N	MCCA-107	MHSN-107	MBPL-107
MCAM-108R	MCCA-108	MHSN-108	MBPL-108
MCAM-108N	MCCA-108	MHSN-108	MBPL-108
MCAM-109R	MCCA-109		
MCAM-109N	MCCA-109		
MCAM-110R	MCCA-110		
MCAM-110N	MCCA-110		
MCAM-111R	MCCA-111		
MCAM-111N	MCCA-111		

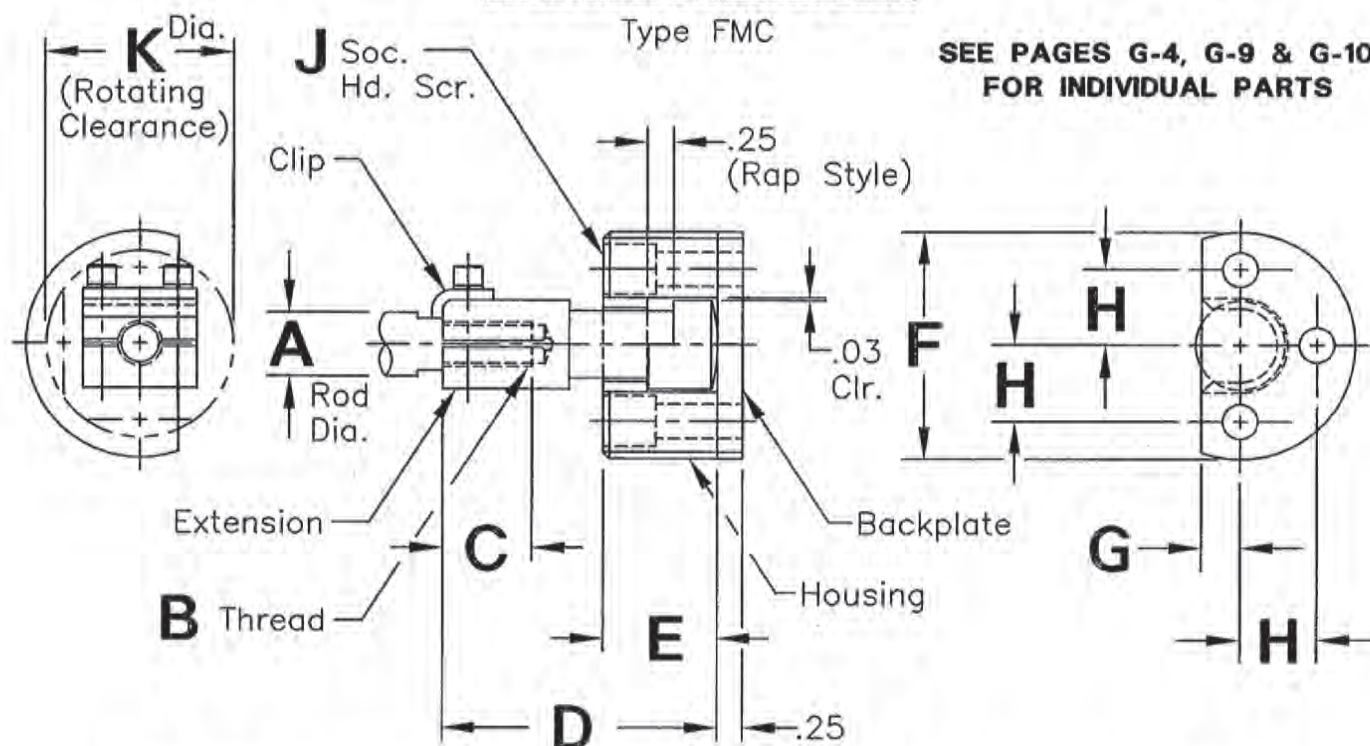
MCAF-102R	MCCA-102	MHSN-102	MBPL-102
MCAF-102N	MCCA-102	MHSN-102	MBPL-102
MCAF-103R	MCCA-103	MHSN-103	MBPL-103
MCAF-103N	MCCA-103	MHSN-103	MBPL-103
MCAF-104R	MCCA-104	MHSN-104	MBPL-104
MCAF-104N	MCCA-104	MHSN-104	MBPL-104
MCAF-105R	MCCA-105		
MCAF-105N	MCCA-105		
MCAF-107R	MCCA-107	MHSN-107	MBPL-107
MCAF-107N	MCCA-107	MHSN-107	MBPL-107
MCAF-109R	MCCA-109		
MCAF-109N	MCCA-109		
MCAF-111R	MCCA-111		
MCAF-111N	MCCA-111		

Detail Standard Co.

FLOATING ROD COUPLER

Type FMC

SEE PAGES G-4, G-9 & G-10
FOR INDIVIDUAL PARTS



Part No.	Style	A	B	C	D	E	F	G	H	J	K
FMC-101R	RAP	.625	7/16-20	.88	2.50	1.12	2.25	.38	.750	.31	2.00
FMC-101N	NON-RAP	.625	7/16-20	.88	2.50	1.12	2.25	.38	.750	.31	2.00
FMC-102R	RAP	1.000	3/4-16	1.25	3.62	1.75	3.00	.44	1.000	.38	2.50
FMC-102N	NON-RAP	1.000	3/4-16	1.25	3.62	1.75	3.00	.44	1.000	.38	2.50
FMC-103R	RAP	1.375	1-14	1.75	4.50	2.00	3.50	.56	1.188	.50	2.75
FMC-103N	NON-RAP	1.375	1-14	1.75	4.50	2.00	3.50	.56	1.188	.50	2.75

Part No.	Style	Clip	Extension	Housing	Backplate
FMC-101R	RAP	CL-101	EX-101R	HSN-101	BPL-101
FMC-101N	NON-RAP	CL-101	EX-101N	HSN-101	BPL-101
FMC-102R	RAP	CL-102	EX-102R	HSN-102	BPL-102
FMC-102N	NON-RAP	CL-102	EX-102N	HSN-102	BPL-102
FMC-103R	RAP	CL-103	EX-103R	HSN-103	BPL-103
FMC-103N	NON-RAP	CL-103	EX-103N	HSN-103	BPL-103

Each Floating Rod Coupler Assembly Includes

- (1) Extension
- (1) Housing
- (1) Backplate
- (1) Clip
- (2) Clamp Screws With Lockwashers

FINISH: Black Oxide

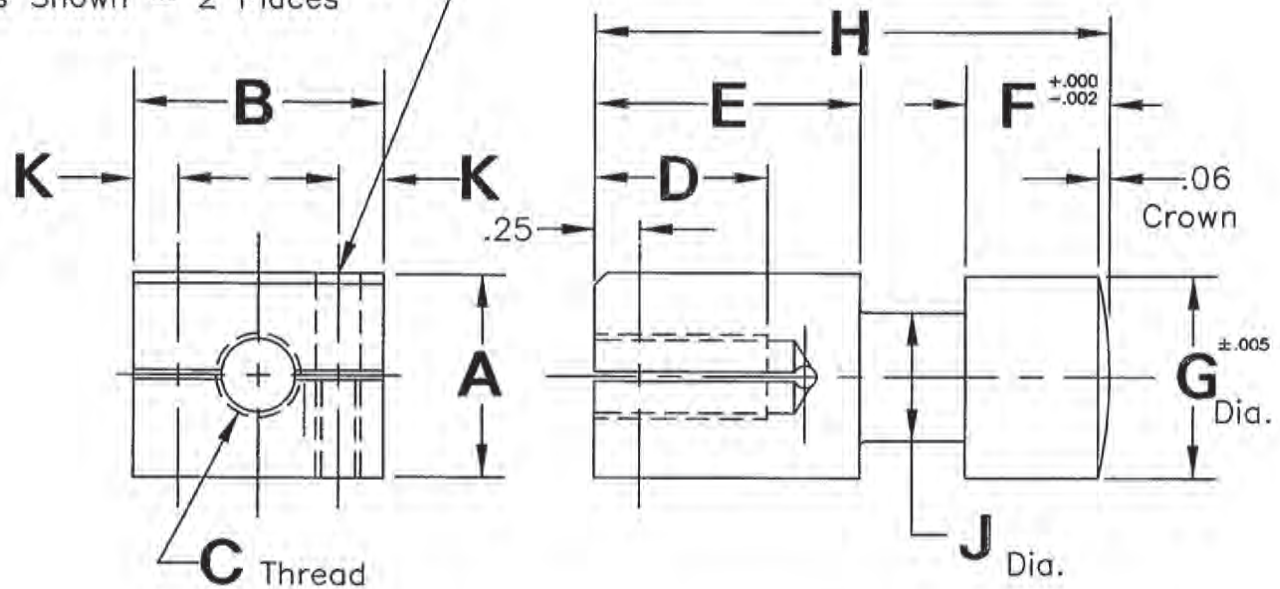
Detail Standard Co.

EXTENSION

Type EX

SEE PAGE G-3
FOR COMPLETE ASSEMBLY

7/32 Drill & #10-32 Tap
As Shown - 2 Places



Part No.	Style	A	B	C	D	E	F	G	H	J	K
EX-101R	RAP	.88	1.12	7/16-20	.88	1.25	.432	.875	2.50	.44	.18
EX-101N	NON-RAP	.88	1.12	7/16-20	.88	1.25	.680	.875	2.50	.44	.18
EX-101R-M1	RAP	.88	1.12	M10 X 1.25	.88	1.25	.432	.875	2.50	.44	.18
EX-101N-M1	NON-RAP	.88	1.12	M10 X 1.25	.88	1.25	.680	.875	2.50	.44	.18
EX-101R-M2	RAP	.88	1.12	M12 X 1.25	.88	1.25	.432	.875	2.50	.44	.18
EX-101N-M2	NON-RAP	.88	1.12	M12 X 1.25	.88	1.25	.680	.875	2.50	.44	.18
EX-102R	RAP	1.25	1.50	3/4-16	1.25	1.75	.750	1.250	3.62	.75	.18
EX-102N	NON-RAP	1.25	1.50	3/4-16	1.25	1.75	.993	1.250	3.62	.75	.18
EX-102R-M1	RAP	1.25	1.50	M16 X 1.5	1.25	1.75	.750	1.250	3.62	.75	.18
EX-102N-M1	NON-RAP	1.25	1.50	M16 X 1.5	1.25	1.75	.993	1.250	3.62	.75	.18
EX-102R-M2	RAP	1.25	1.50	M20 X 1.5	1.25	1.75	.750	1.250	3.62	.75	.18
EX-102N-M2	NON-RAP	1.25	1.50	M20 X 1.5	1.25	1.75	.993	1.250	3.62	.75	.18
EX-103R	RAP	1.50	1.75	1-14	1.75	2.38	.870	1.500	4.50	1.00	.25
EX-103N	NON-RAP	1.50	1.75	1-14	1.75	2.38	1.118	1.500	4.50	1.00	.25
EX-103R-M1	RAP	1.50	1.75	M27 X 2	1.75	2.38	.870	1.500	4.50	1.00	.25
EX-103N-M1	NON-RAP	1.50	1.75	M27 X 2	1.75	2.38	1.118	1.500	4.50	1.00	.25

Material: 12L14

Heat Treat: Carb. & Hdn., Rock. "C" 45-50, .06 min. case

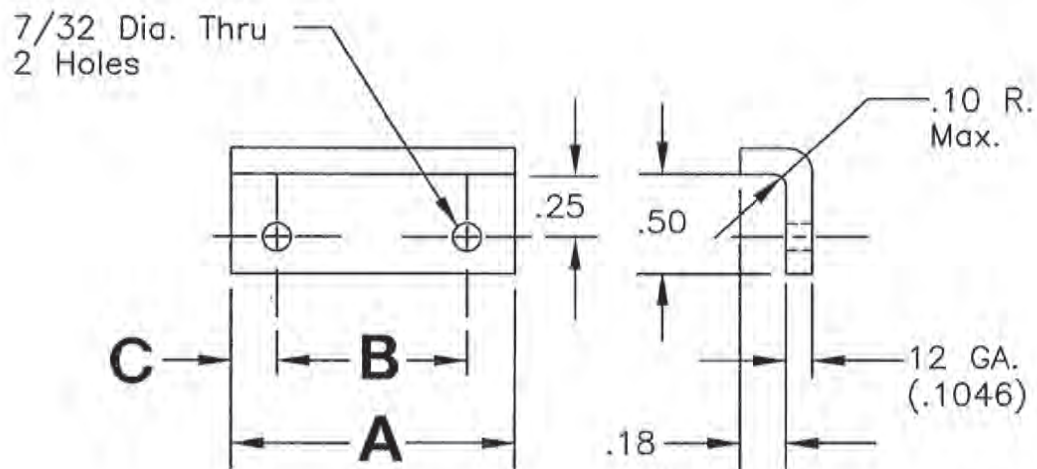
Finish: Black Oxide

Detail Standard Co.

CLIP

Type CL

SEE PAGE G-3
FOR COMPLETE ASSEMBLY



Part No.	A	B	C	Used With
CL-101	1.12	.750	.18	FMC-101R & N
CL-102	1.50	1.125	.18	FMC-102R & N
CL-103	1.75	1.250	.25	FMC-103R & N

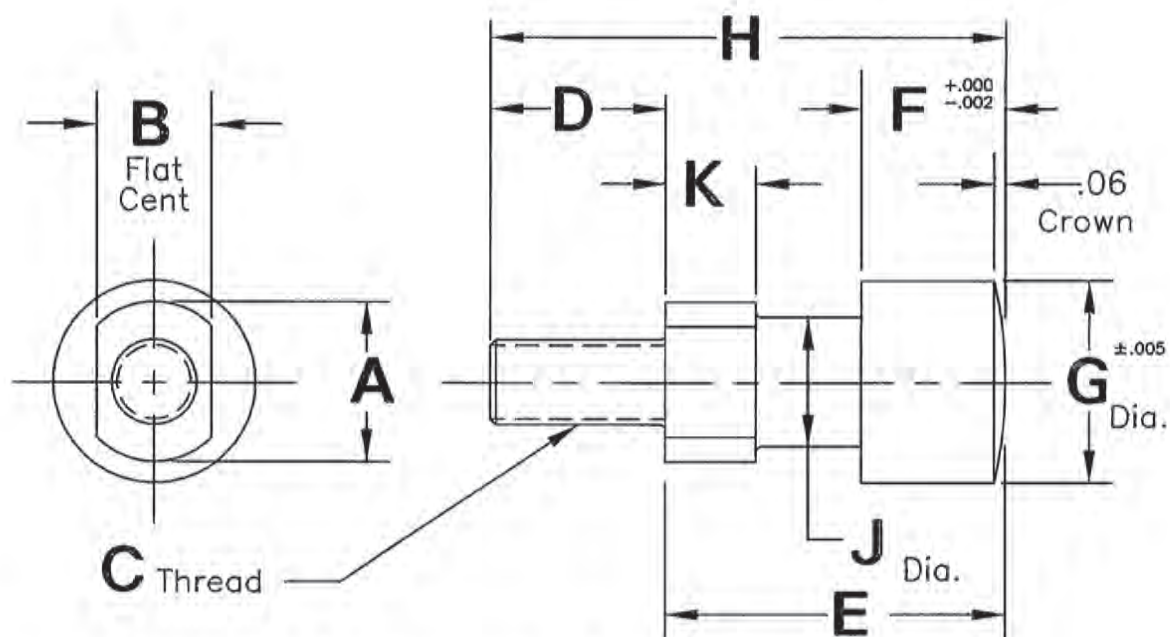
Material: 1018 C.R.S.
Heat Treat: None
Finish: Black Oxide

Detail Standard Co.

CYLINDER ADAPTER MALE

Type CAM

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	Style	A	B	C	D	E	F	G	H	J	K
CAM-101R	RAP	.62	.50	7/16-20	.62	1.75	.438	.88	2.38	.44	.50
CAM-101N	NON-RAP	.62	.50	7/16-20	.62	1.75	.688	.88	2.38	.44	.50
CAM-102R	RAP	1.00	.88	3/4-16	1.00	2.38	.750	1.25	3.38	.75	.50
CAM-102N	NON-RAP	1.00	.88	3/4-16	1.00	2.38	1.000	1.25	3.38	.75	.50
CAM-103R	RAP	1.38	1.25	1"-14	1.50	2.75	.875	1.50	4.25	1.00	.62
CAM-103N	NON-RAP	1.38	1.25	1"-14	1.50	2.75	1.125	1.50	4.25	1.00	.62

Material: 12L14

Heat Treat: Carb. & Hdn., Rock. "C" 45-50, .06 min. case

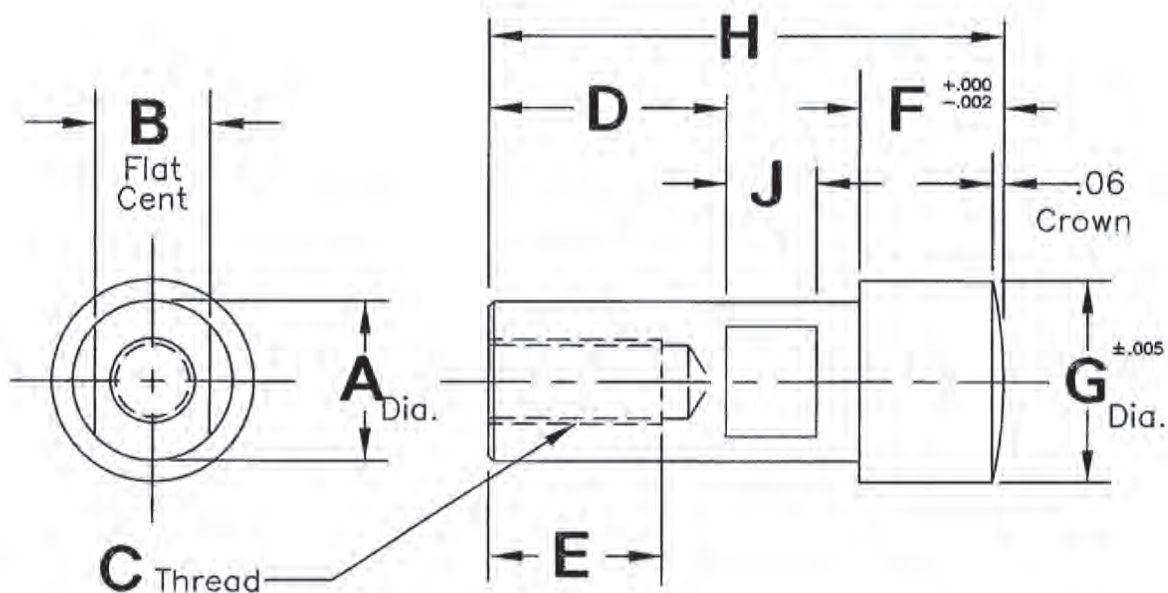
Finish: Black Oxide

Detail Standard Co.

CYLINDER ADAPTER FEMALE

Type CAF

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	Style	A	B	C	D	E	F	G	H	J
CAF-102R	RAP	.75	.62	7/16-20	1.00	.94	.750	1.25	2.38	.56
CAF-102N	NON-RAP	.75	.62	7/16-20	1.00	.94	1.000	1.25	2.62	.56
CAF-103R	RAP	1.00	.88	3/4-16	1.25	1.19	.875	1.50	2.75	.56
CAF-103N	NON-RAP	1.00	.88	3/4-16	1.25	1.19	1.125	1.50	3.00	.56
CAF-104N	NON-RAP	1.75	1.50	1 1/4-12	2.12	2.50	1.375	2.50	4.75	.56

Material: 12L14

Heat Treat: Carb. & Hdn., Rock. "C" 45-50, .06 min. case

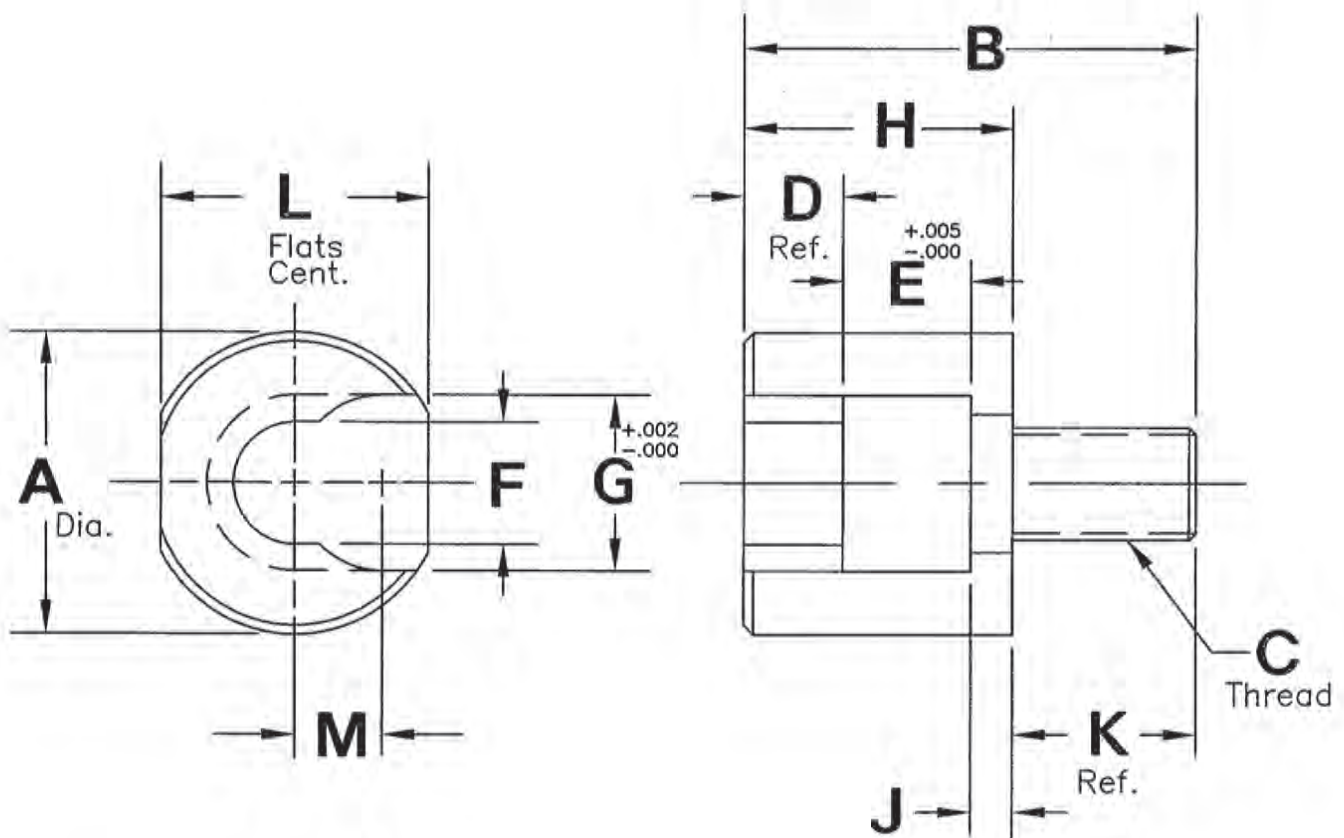
Finish: Black Oxide

Detail Standard Co.

CYLINDER COUPLER ADAPTER

Type CCA

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	A	B	C	D	E	F	G	H	J	K	L	M
CCA-101	1.44	2.25	7/16-20	.44	.690	.53	.930	1.50	.37	.75	1.31	.47
CCA-102	1.93	3.25	3/4-16	.75	1.000	.81	1.310	2.12	.37	1.12	1.75	.66
CCA-103	2.68	4.00	1"-14	.56	1.125	1.09	1.560	2.38	.37	1.62	2.38	.78

Material: 12L14 C.R.S.

Heat Treat: Carb. and Hdn., Rock "C" 45-50, .06 Min. Case.

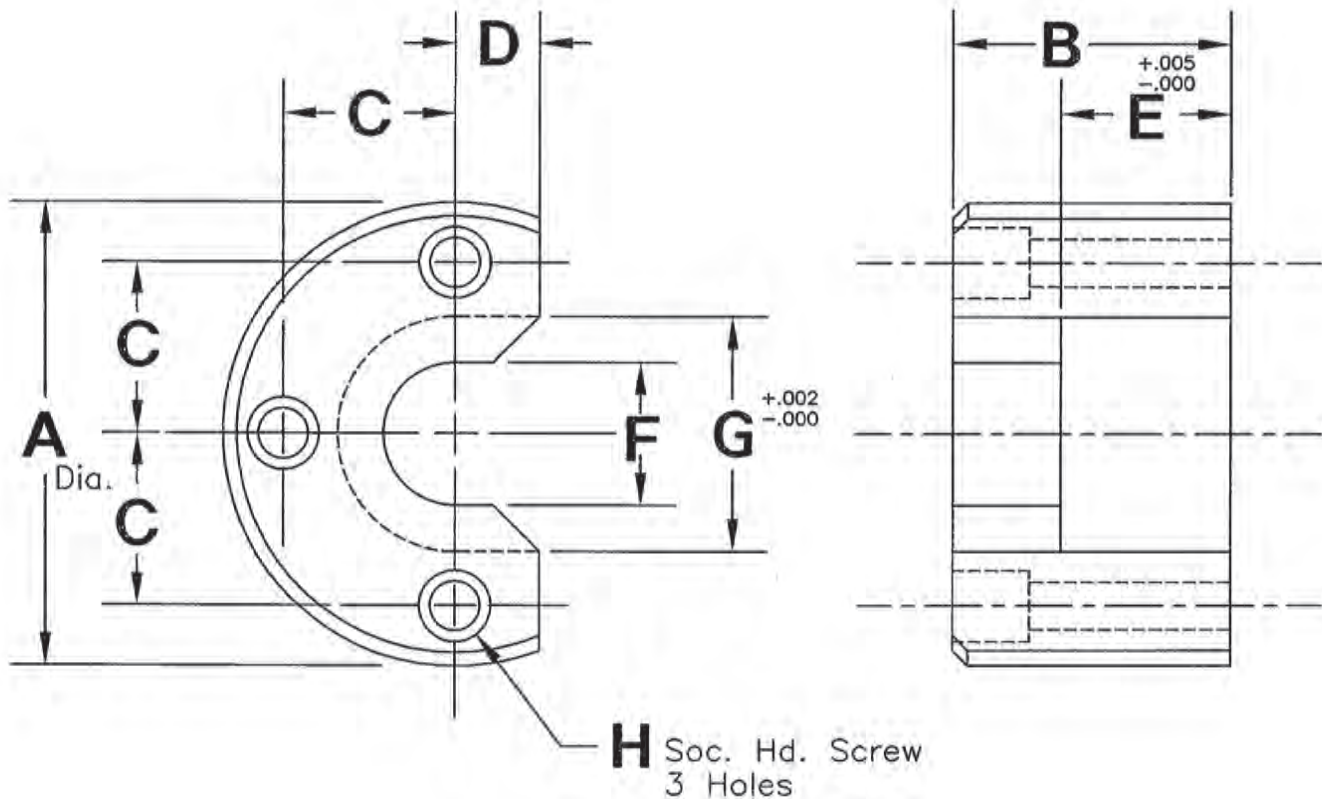
Finish: Black Oxide

Detail Standard Co.

HOUSING

Type HSN

SEE PAGE G-2 & G-3
FOR COMPLETE ASSEMBLY



Part No.	A	B	C	D	E	F	G	H
HSN-101	2.25	1.12	.750	.38	.690	.50	.930	.31
HSN-102	3.00	1.75	1.000	.44	1.003	.81	1.310	.38
HSN-103	3.50	2.00	1.188	.56	1.125	1.06	1.560	.50
HSN-104	5.75	2.50	2.000	.81	1.375	1.81	2.560	.75

Material: 12L14 C.R.S.

Heat Treat: Carb. and Hdn., Rock "C" 45-50, .06 Min. Case.

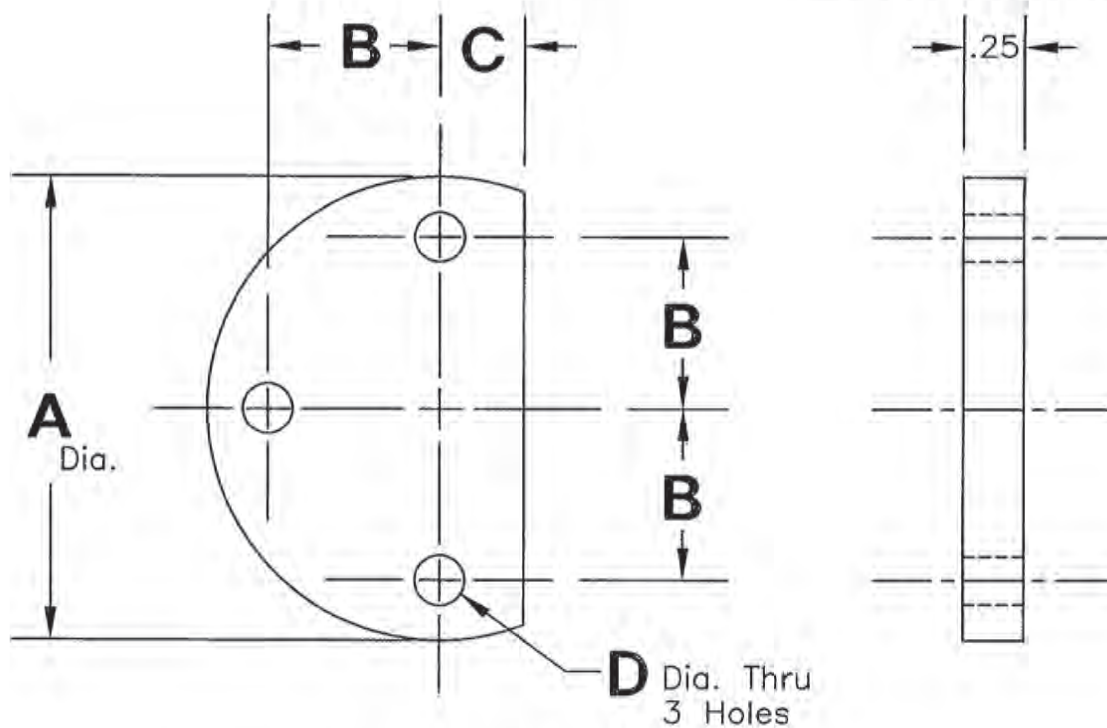
Finish: Black Oxide

Detail Standard Co.

BACKPLATE

Type BPL

SEE PAGE G-2 & G-3
FOR COMPLETE ASSEMBLY



Part No.	A	B	C	D
BPL-101	2.25	.750	.38	.34
BPL-102	3.00	1.000	.44	.41
BPL-103	3.50	1.188	.56	.53
BPL-104	5.75	2.000	.81	.78

Material: 12L14 C.R.S.

Heat Treat: Carb. and Hdn., Rock "C" 45-50, .06 Min. Case.

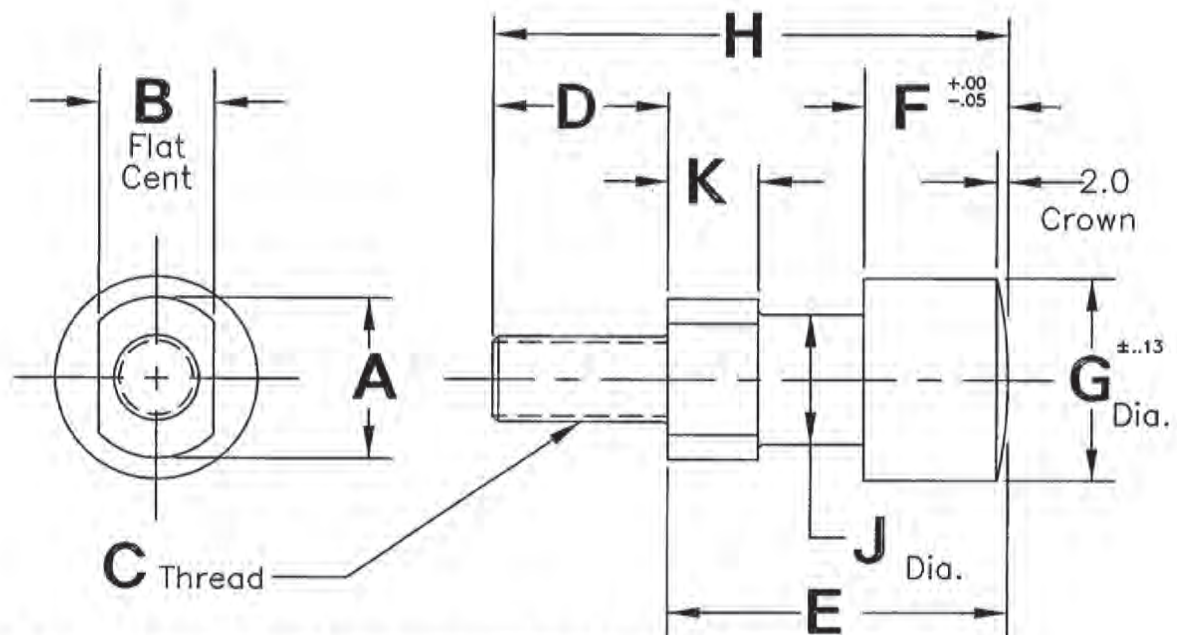
Finish: Black Oxide

Detail Standard Co.

METRIC CYLINDER ADAPTER MALE

Type MCAM

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	Style	A	B	C	D	E	F	G	H	J	K
MCAM-101R	RAP	12.0	10.0	M8x1	15.0	26.0	5.00	14.0	41.0	8.0	6.0
MCAM-101N	NON-RAP	12.0	10.0	M8x1	15.0	26.0	9.80	14.0	41.0	8.0	6.0
MCAM-102R	RAP	16.0	12.0	M10x1.25	15.0	47.0	15.00	22.0	62.0	12.0	12.0
MCAM-102N	NON-RAP	16.0	12.0	M10x1.25	15.0	47.0	19.80	22.0	62.0	12.0	12.0
MCAM-103R	RAP	16.0	12.0	M12x1.25	18.0	47.0	15.00	22.0	65.0	12.0	12.0
MCAM-103N	NON-RAP	16.0	12.0	M12x1.25	18.0	47.0	19.80	22.0	65.0	12.0	12.0
MCAM-104R	RAP	25.0	22.0	M14x1.5	20.0	60.0	20.00	32.0	80.0	20.0	12.0
MCAM-104N	NON-RAP	25.0	22.0	M14x1.5	20.0	60.0	24.80	32.0	80.0	20.0	12.0
MCAM-105R	RAP	25.0	22.0	M16x1.5	20.0	60.0	20.00	32.0	80.0	20.0	12.0
MCAM-105N	NON-RAP	25.0	22.0	M16x1.5	20.0	60.0	24.80	32.0	80.0	20.0	12.0
MCAM-106R	RAP	25.0	22.0	M18x1.5	25.0	60.0	20.00	32.0	85.0	20.0	12.0
MCAM-106N	NON-RAP	25.0	22.0	M18x1.5	25.0	60.0	24.80	32.0	85.0	20.0	12.0
MCAM-107R	RAP	25.0	22.0	M20x1.5	25.0	60.0	20.00	32.0	85.0	20.0	12.0
MCAM-107N	NON-RAP	25.0	22.0	M20x1.5	25.0	60.0	24.80	32.0	85.0	20.0	12.0
MCAM-108R	RAP	32.0	28.0	M24x2	35.0	70.0	25.00	40.0	105.0	25.0	15.0
MCAM-108N	NON-RAP	32.0	28.0	M24x2	35.0	70.0	29.80	40.0	105.0	25.0	15.0
MCAM-109R	RAP	32.0	28.0	M27x2	35.0	70.0	25.00	40.0	105.0	25.0	15.0
MCAM-109N	NON-RAP	32.0	28.0	M27x2	35.0	70.0	29.80	40.0	105.0	25.0	15.0
MCAM-110R	RAP	45.0	40.0	M33x2	45.0	80.0	25.00	55.0	125.0	35.0	15.0
MCAM-110N	NON-RAP	45.0	40.0	M33x2	45.0	80.0	29.80	55.0	125.0	35.0	15.0

Material: 12L14

Heat Treat: Carb. & Hdn., Rock. "C" 45-50, .06 min. case

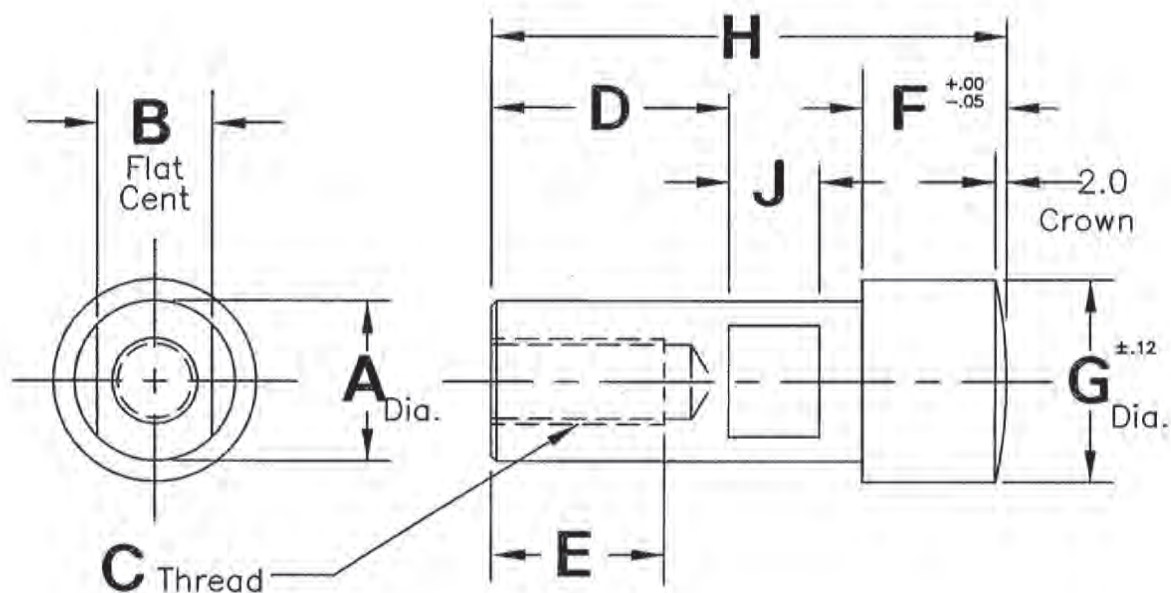
Finish: Black Oxide

Detail Standard Co.

METRIC CYLINDER ADAPTER FEMALE

Type MCAF

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	Style	A	B	C	D	E	F	G	H	J
MCAF-102R	RAP	20.0	16.0	M10x1.25	25.0	25.0	20.00	32.0	60.0	12.0
MCAF-102N	NON-RAP	20.0	16.0	M10x1.25	25.0	25.0	24.80	32.0	65.0	12.0
MCAF-103R	RAP	20.0	16.0	M12x1.25	25.0	25.0	20.00	32.0	60.0	12.0
MCAF-103N	NON-RAP	20.0	16.0	M12x1.25	25.0	25.0	24.80	32.0	65.0	12.0
MCAF-104R	RAP	25.0	22.0	M14x1.5	32.0	25.0	25.00	40.0	70.0	14.0
MCAF-104N	NON-RAP	25.0	22.0	M14x1.5	32.0	25.0	29.80	40.0	75.0	14.0
MCAF-105R	RAP	25.0	22.0	M16x1.5	32.0	25.0	25.00	40.0	70.0	14.0
MCAF-105N	NON-RAP	25.0	22.0	M16x1.5	32.0	25.0	29.80	40.0	75.0	14.0
MCAF-107R	RAP	35.0	32.0	M20x1.5	40.0	45.0	25.00	55.0	100.0	15.0
MCAF-107N	NON-RAP	35.0	32.0	M20x1.5	40.0	45.0	29.80	55.0	105.0	15.0
MCAF-109R	RAP	45.0	38.0	M27x2	55.0	65.0	30.00	63.0	115.0	14.0
MCAF-109N	NON-RAP	45.0	38.0	M27x2	55.0	65.0	34.80	63.0	120.0	14.0
MCAF-110R	RAP	45.0	38.0	M33x2	48.0	65.0	30.00	63.0	115.0	14.0
MCAF-110N	NON-RAP	45.0	38.0	M33x2	48.0	65.0	34.80	63.0	120.0	14.0

Material: 12L14

Heat Treat: Carb. & Hdn., Rock. "C" 45-50, .06 min. case

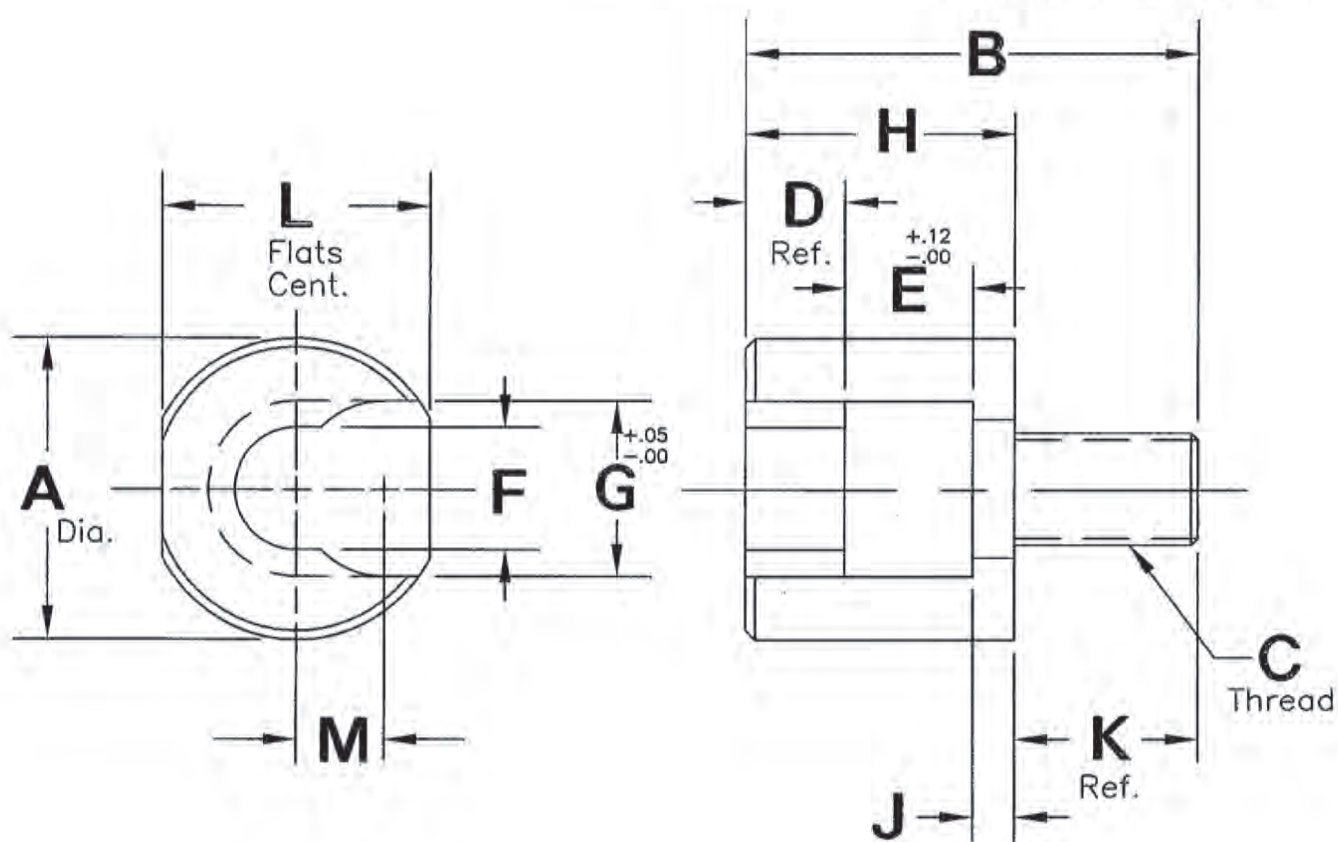
Finish: Black Oxide

Detail Standard Co.

METRIC CYLINDER COUPLER ADAPTER

Type MCCA

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	A	B	C	D	E	F	G	H	J	K	L	M
MCCA-101	30.0	41.0	M8x1.0	8.0	10.00	10.0	16.00	26.0	8.0	15.0	24.0	8.5
MCCA-102	40.0	57.0	M10x1.25	12.0	20.00	14.0	24.00	42.0	10.0	15.0	32.0	12.0
MCCA-103	40.0	60.0	M12x1.25	12.0	20.00	14.0	24.00	42.0	10.0	18.0	32.0	12.0
MCCA-104	50.0	75.0	M14x1.5	20.0	25.00	22.0	35.00	55.0	10.0	20.0	45.0	17.5
MCCA-105	50.0	75.0	M16x1.5	20.0	25.00	22.0	35.00	55.0	10.0	20.0	45.0	17.5
MCCA-106	50.0	80.0	M18x1.5	20.0	25.00	22.0	35.00	55.0	10.0	25.0	45.0	17.5
MCCA-107	50.0	80.0	M20x1.5	20.0	25.00	22.0	35.00	55.0	10.0	25.0	45.0	17.5
MCCA-108	70.0	95.0	M24x2.0	20.0	30.00	27.0	42.00	60.0	10.0	35.0	60.0	21.0
MCCA-109	70.0	95.0	M27x2.0	20.0	30.00	27.0	42.00	60.0	10.0	35.0	60.0	21.0
MCCA-110	100.0	120.0	M30x2.0	30.0	30.00	37.0	57.00	80.0	20.0	40.0	80.0	28.5
MCCA-111	100.0	120.0	M33x2.0	30.0	30.00	37.0	57.00	80.0	20.0	45.0	80.0	28.5

Material: 12L14 C.R.S.

Heat Treat: Carb. and Hdn., Rock "C" 45-50, .06 Min. Case.

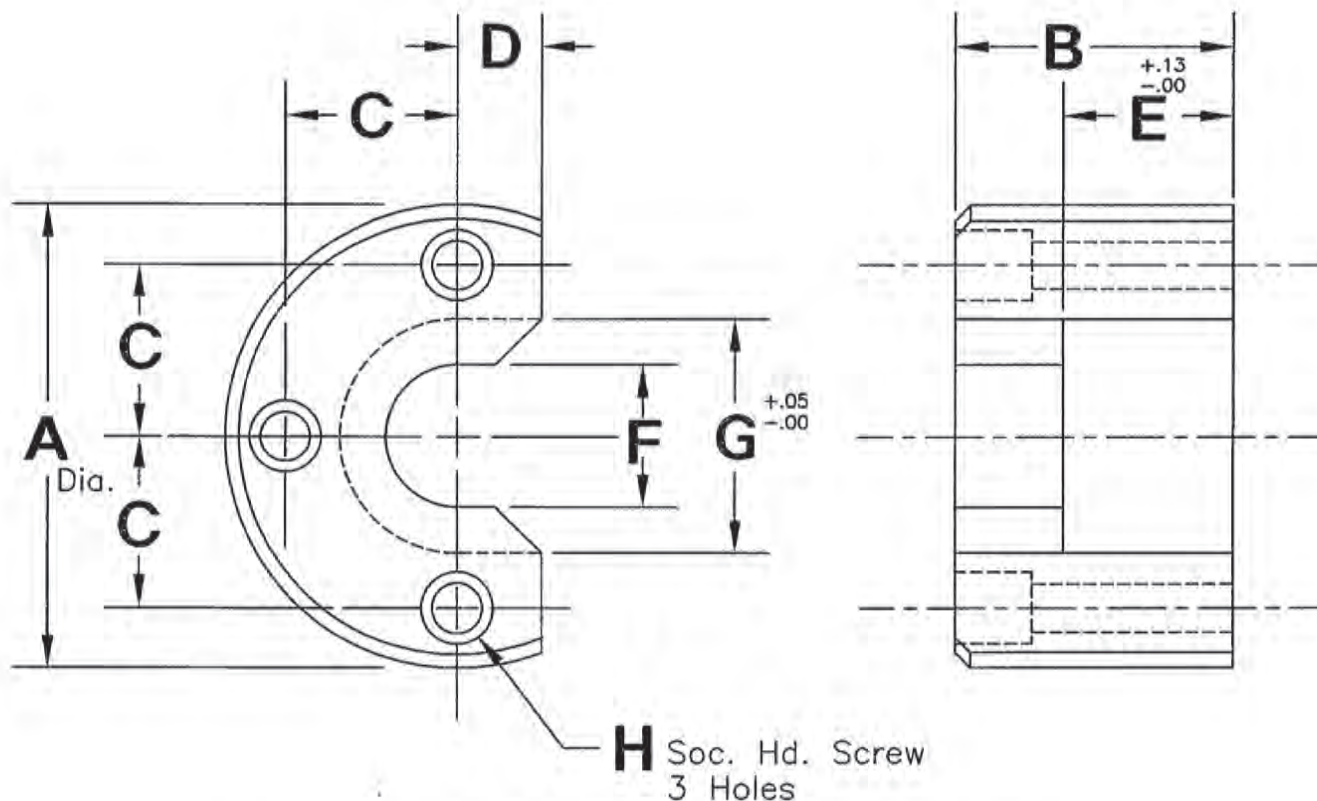
Finish: Black Oxide

Detail Standard Co.

METRIC HOUSING

Type MHSN

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	A	B	C	D	E	F	G	H
MHSN-101	60.0	32.0	20.00	10.0	20.00	14.0	24.00	M8
MHSN-102	75.0	45.0	25.00	12.0	25.00	22.0	35.00	M10
MHSN-103	90.0	50.0	30.00	15.0	30.00	27.0	42.00	M12
MHSN-104	120.0	60.0	40.00	20.0	30.00	37.0	57.00	M14
MHSN-107	150.0	65.0	50.00	20.0	35.00	47.0	65.00	M20
MHSN-108	160.0	70.0	55.00	25.0	40.00	52.0	72.00	M24

Material: 12L14 C.R.S.

Heat Treat: Carb. and Hdn., Rock "C" 45-50, .06 Min. Case.

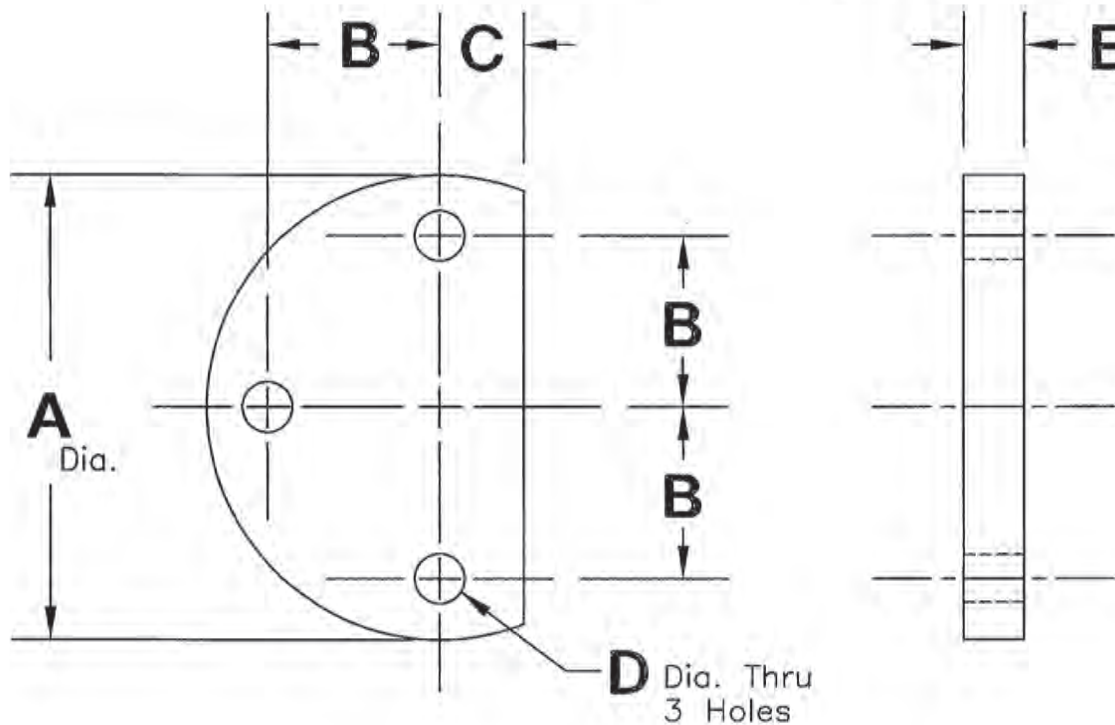
Finish: Black Oxide

Detail Standard Co.

METRIC BACKPLATE

Type MBPL

SEE PAGE G-2
FOR ASSEMBLY MATRIX



Part No.	A	B	C	D	E
MBPL-101	60.0	20.00	10.0	9.0	6.0
MBPL-102	75.0	25.00	12.0	11.0	6.0
MBPL-103	90.0	30.00	15.0	13.0	8.0
MBPL-104	120.0	40.00	20.0	15.0	8.0
MBPL-107	150.0	50.00	20.0	21.0	10.0
MBPL-108	160.0	55.00	25.0	25.0	10.0

Material: 12L14 C.R.S.

Heat Treat: Carb. and Hdn., Rock "C" 45-50, .06 Min. Case.

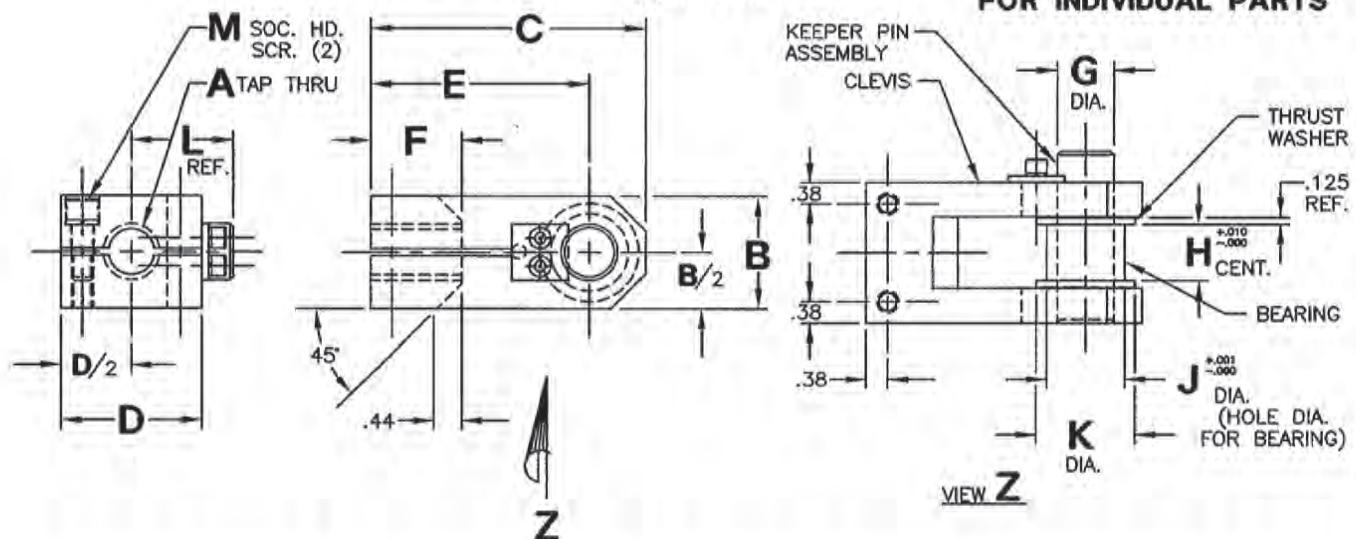
Finish: Black Oxide

Detail Standard Co.

CLEVIS ASSEMBLY

Type CAN

SEE PAGES G-17 TO G-19
FOR INDIVIDUAL PARTS



Part No.	A	B	C	D	E	F	G	H	J	K	L	M
CAN-101	5/16-24	1.25	2.62	1.50	2.12	.88	.38	.515	.500	.75	1.21	.25
CAN-102	7/16-20	1.50	3.00	2.00	2.25	.75	.62	.765	.812	1.25	1.50	.31
CAN-103	1/2-20	1.50	3.00	2.00	2.25	.75	.62	.765	.812	1.25	1.50	.31
CAN-104	3/4-16	2.00	4.38	2.50	3.38	1.12	.75	1.015	1.000	1.38	1.75	.38
CAN-105	7/8-14	2.00	4.88	2.50	3.88	1.62	1.00	1.015	1.375	1.75	1.81	.38
CAN-106	1-14	2.00	4.88	2.50	3.88	1.62	1.00	1.015	1.375	1.75	1.81	.38
CAN-107	1 1/4-12	3.00	7.00	3.00	5.62	2.25	1.38	1.265	1.750	1.94	2.25	.38
CAN-108	1 1/2-12	3.00	7.00	3.00	5.62	2.25	1.38	1.265	1.750	1.94	2.25	.38
CAN-109	1 3/4-12	3.00	7.50	4.50	6.00	2.25	1.50	2.265	1.875	2.50	3.00	.38
CAN-110	1 7/8-12	3.00	8.50	4.50	7.00	3.25	1.50	2.265	1.875	2.50	3.00	.38

Part No.	CLEVIS	KEEPER PIN ASSEMBLY	THRUST WASHER	BEARING
CAN-101	CVS-101	KPH-.375-1.50-2K-11	CTW-101	CBG-101
CAN-102	CVS-102	KPH-.625-2.00-2K-11	CTW-102	CBG-102
CAN-103	CVS-103	KPH-.625-2.00-2K-11	CTW-102	CBG-102
CAN-104	CVS-104	KPH-.750-2.50-2K-11	CTW-103	CBG-103
CAN-105	CVS-105	KPH-1.000-2.50-2K-11	CTW-104	CBG-104
CAN-106	CVS-106	KPH-1.000-2.50-2K-11	CTW-104	CBG-104
CAN-107	CVS-107	KPHH-1.375-3.00	CTW-105	CBG-105
CAN-108	CVS-108	KPHH-1.375-3.00	CTW-105	CBG-105
CAN-109	CVS-109	KPHH-1.500-4.50	CTW-106	CBG-106
CAN-110	CVS-110	KPHH-1.500-4.50	CTW-106	CBG-106

Each Clevis Assembly Includes

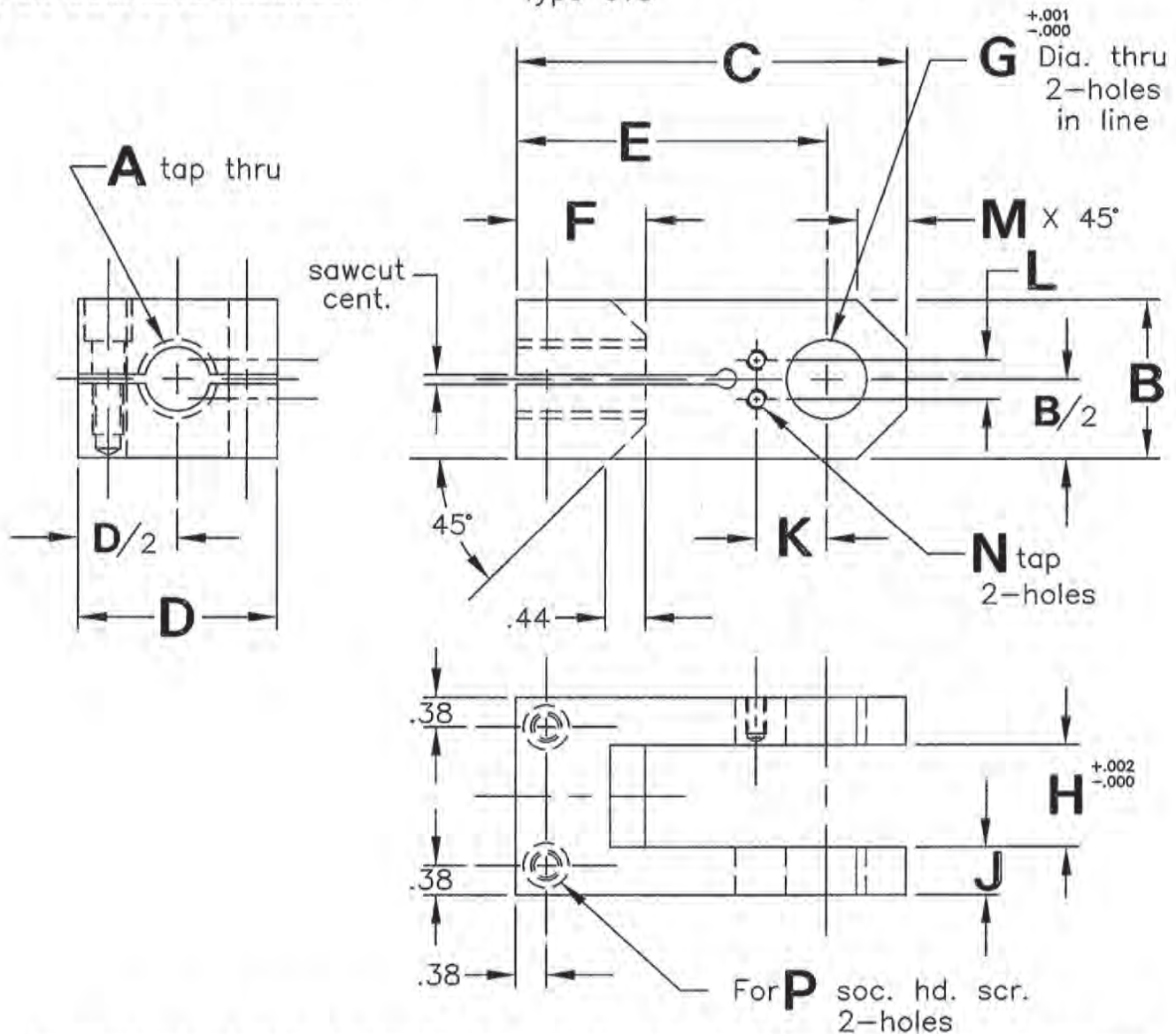
- (1) Clevis
- (1) Hardened Keeper Pin With Keeper and Mounting Screws
- (1) Hardened Bearing (SAE-863 or SO-16)
- (2) Thrust Washer
- (2) Socket Head Screws With Hi-Coller Lockwashers

FINISH: Black Oxide (Clevis Only)

Detail Standard Co.

SEE PAGE G-16
FOR COMPLETE ASSEMBLY

CLEVIS Type CVS



Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P SOCKET HEAD SCREW
CVS-101	5/16-24	1.25	2.62	1.50	2.12	.88	.376	.780	.36	.437	.500	.38	1/4-20 THRU	1/4-20 x 3/4
CVS-102	7/16-20	1.50	3.00	2.00	2.25	.75	.626	1.030	.49	.562	.500	.50	1/4-20 THRU	5/16-18 x 7/8
CVS-103	1/2-20	1.50	3.00	2.00	2.25	.75	.626	1.030	.49	.562	.500	.50	1/4-20 THRU	5/16-18 x 7/8
CVS-104	3/4-16	2.00	4.38	2.50	3.38	1.12	.751	1.280	.61	.625	.500	.62	1/4-20 x 1/2	3/8-16 x 1 1/4
CVS-105	7/8-14	2.00	4.88	2.50	3.88	1.62	1.001	1.280	.61	.750	.500	.62	1/4-20 x 1/2	3/8-16 x 1 1/4
CVS-106	1-14	2.00	4.88	2.50	3.88	1.62	1.001	1.280	.61	.750	.500	.62	1/4-20 x 1/2	3/8-16 x 1 1/4
CVS-107	1 1/4-12	3.00	7.00	3.00	5.62	2.25	1.376	1.530	.74	1.063	.750	.75	3/8-16 THRU	3/8-16 x 1 3/4
CVS-108	1 1/2-12	3.00	7.00	3.00	5.62	2.25	1.376	1.530	.74	1.063	.750	.75	3/8-16 THRU	3/8-16 x 1 3/4
CVS-109	1 3/4-12	3.00	7.50	4.50	6.00	2.25	1.501	2.530	.99	1.125	.750	.75	3/8-16 x 3/4	3/8-16 x 1 3/4
CVS-110	1 7/8-12	3.00	8.50	4.50	7.00	3.25	1.501	2.530	.99	1.125	.750	.75	3/8-16 x 3/4	3/8-16 x 1 3/4

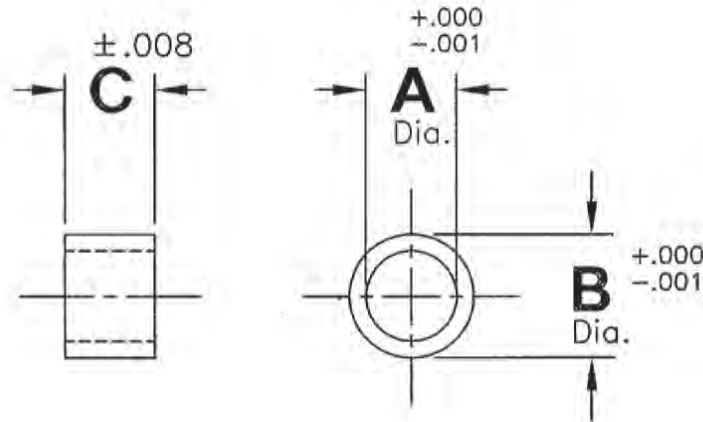
Material: 1020 H.R.S.
Finish: Black oxide

Detail Standard Co.

BEARING

Type CBG

SEE PAGE G-16
FOR COMPLETE ASSEMBLY



Part No.	A	B	C
CBG-101	.378	.503	.500
CBG-102	.630	.815	.750
CBG-103	.755	1.003	.940
CBG-104	1.005	1.378	1.000
CBG-105	1.380	1.753	1.250
CBG-106	1.505	1.878	2.250

COMPOSITION: (percent)	SAE 863 (CBG-101 & 102 ONLY)	SO-16 (ALL OTHERS)
COPPER	18.0 - 22.0	18.0 - 22.0
IRON	BALANCE	BALANCE
CARBON	-	0.6 - 1.0
TIN	-	-
OTHER ELEMENTS	2.0	2.0

Material:

CBG-101 & 102 - Sintered Bronze SAE 863

All Others - SO-16 Hardened Bearing

Notes:

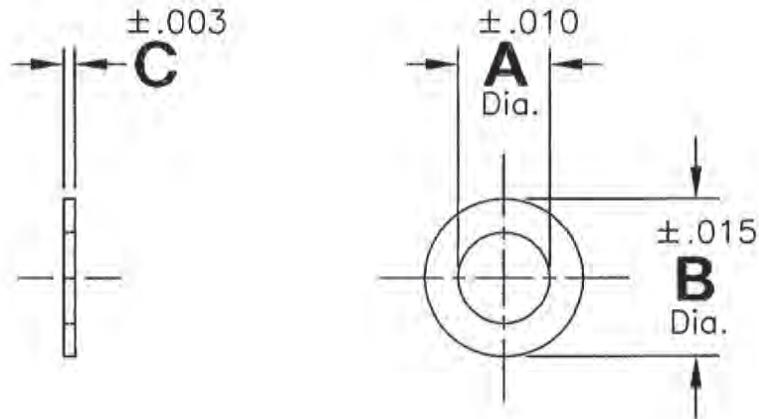
- Recommended hole size for press fit: Nominal $+.001/-0.000$
- Not to be used with additional lubrication.
- Concentricity (I.D. with respect to O.D.)
CBG-101 to CBG-106 $\pm.003$ T.I.R.

Detail Standard Co.

THRUSTWASHER

Type CTW

SEE PAGE G-16
FOR COMPLETE ASSEMBLY



Part No.	A	B	C
CTW-101	.380	.750	.125
CTW-102	.628	1.250	.125
CTW-103	.753	1.375	.125
CTW-104	1.012	1.750	.125
CTW-105	1.379	1.940	.125
CTW-106	1.505	2.505	.125

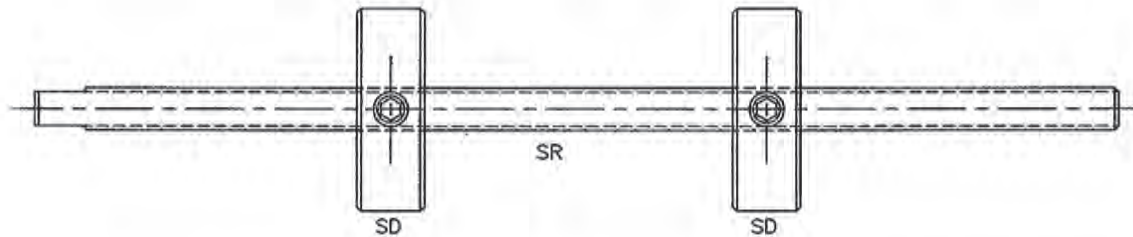
COMPOSITION: (percent)	SAE 863
COPPER	18.0 - 22.0
IRON	BALANCE
CARBON	-
TIN	-
OTHER ELEMENTS	2.0

Material: Sintered bronze (SAE 863)

Detail Standard Co.

SWITCH DOG ASSEMBLY & METRIC SWITCH DOG ASSEMBLY MATRIX

SEE PAGES G-21 TO G-22
FOR INDIVIDUAL PARTS



INCH

METRIC

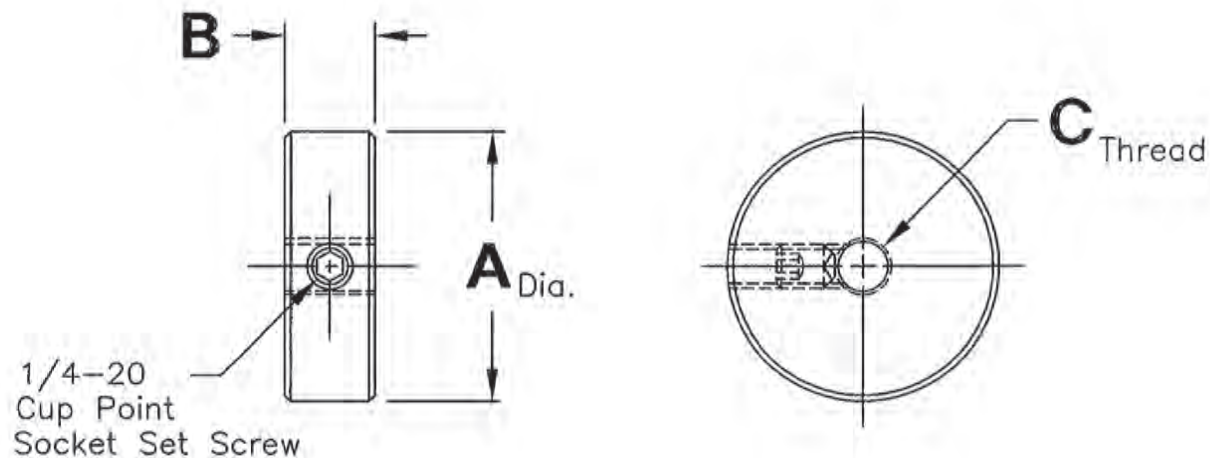
Cylinder Information			Switch Dog	Switch Rod	Cylinder Information			Switch Dog	Switch Rod
Bore & Type	Rod Dia.	Thread Size			Bore & Type	Rod Dia.	Thread Size		
1" -AIR	1/2	5/16-24	SD-101	SR-101-X	25mm-HYD	12.0	M8x1.0	MSD-101	MSR-101-X
1" -AIR	5/8	7/16-20	SD-102	SR-102-X	25mm-HYD	18.0	M12x1.25	MSD-103	MSR-103-X
1 1/2 -AIR	5/8	7/16-20	SD-102	SR-102-X	32mm-AIR	12.0	M8x1.0	MSD-101	MSR-101-X
1 1/2 -AIR	1	3/4-16	SD-103	SR-103-X	32mm-HYD	14.0	M10x1.25	MSD-102	MSR-102-X
1 1/2 -HYD	5/8	7/16-20	SD-102	SR-102-X	32mm-HYD	22.0	M16x1.5	MSD-105	MSR-105-X
1 1/2 -HYD	1	3/4-16	SD-103	SR-103-X	40mm-AIR	16.0	M10x1.25	MSD-102	MSR-102-X
2" -AIR	5/8	7/16-20	SD-102	SR-102-X	40mm-HYD	18.0	M12x1.25	MSD-103	MSR-103-X
2" -AIR	1	3/4-16	SD-103	SR-103-X	40mm-HYD	28.0	M20x1.5	MSD-107	MSR-107-X
2" -HYD	1	3/4-16	SD-103	SR-103-X	50mm-AIR	20.0	M14x1.5	MSD-104	MSR-104-X
2" -HYD	1 3/8	1-14	SD-104	SR-104-X	50mm-HYD	22.0	M16x1.5	MSD-105	MSR-105-X
2 1/2 -AIR	5/8	7/16-20	SD-102	SR-102-X	50mm-HYD	28.0	M20x1.5	MSD-107	MSR-107-X
2 1/2 -AIR	1	3/4-16	SD-103	SR-103-X	50mm-HYD	36.0	M27x2.0	MSD-109	MSR-109-X
2 1/2 -AIR	1 3/8	1-14	SD-104	SR-104-X	63mm-AIR	20.0	M14x1.5	MSD-104	MSR-104-X
2 1/2 -HYD	1	3/4-16	SD-103	SR-103-X	63mm-HYD	28.0	M20x1.5	MSD-107	MSR-107-X
2 1/2 -HYD	1 3/8	1-14	SD-104	SR-104-X	63mm-HYD	36.0	M27x2.0	MSD-109	MSR-109-X
3 1/4 -AIR	1	3/4-16	SD-103	SR-103-X	80mm-AIR	25.0	M18x1.5	MSD-106	MSR-106-X
3 1/4 -AIR	1 3/8	1-14	SD-104	SR-104-X	80mm-HYD	36.0	M27x2.0	MSD-109	MSR-109-X
3 1/4 -HYD	1 3/8	1-14	SD-104	SR-104-X	100mm-AIR	25.0	M18x1.5	MSD-106	MSR-106-X
4" -AIR	1	3/4-16	SD-103	SR-103-X	125mm-AIR	32.0	M24x2.0	MSD-108	MSR-108-X
4" -AIR	1 3/8	1-14	SD-104	SR-104-X					
5" -AIR	1	3/4-16	SD-103	SR-103-X					
5" -AIR	1 3/8	1-14	SD-104	SR-104-X					
6" -AIR	1 3/8	1-14	SD-104	SR-104-X					

Detail Standard Co.

SWITCH DOG & METRIC SWITCH DAG

Type SD & MSD

SEE PAGE G-20
FOR ASSEMBLY MATRIX



INCH

Part No.	A	B	C
SD-101	1.50	.50	5/16-24
SD-102	2.00	.62	7/16-20
SD-103	2.50	.62	3/4-16
SD-104	3.00	.62	1"-14

METRIC

Part No.	A	B	C
MSD-101	38.0	13.0	M8x1.0
MSD-102	50.0	16.0	M10x1.25
MSD-103	50.0	16.0	M12x1.25
MSD-104	63.0	16.0	M14x1.5
MSD-105	63.0	16.0	M16x1.5
MSD-106	63.0	16.0	M18x1.5
MSD-107	63.0	16.0	M20x1.5
MSD-108	75.0	16.0	M24x2.0
MSD-109	75.0	16.0	M27x2.0

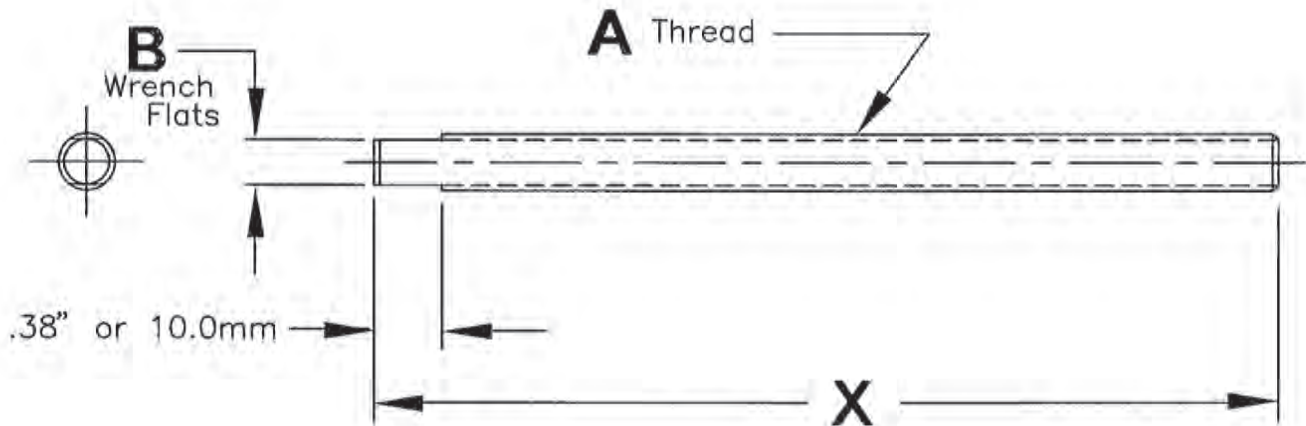
Material: 1018 C.R.S.
Heat Treat: NONE.
Finish: Black Oxide
Cup Point Socket Set Screw included.

Detail Standard Co.

SWITCH ROD & METRIC SWITCH ROD

Type SR & MSR

SEE PAGE G-20
FOR ASSEMBLY MATRIX



INCH

Part No.	A Thread	B
SR-101	5/16-24	.25
SR-102	7/16-20	.31
SR-103	3/4-16	.50
SR-104	1"-14	.75

Available 5" thru 12"
in 1" Increments

METRIC

Part No.	A Thread	B
MSR-101	M8x1	5.0
MSR-102	M10x1.25	6.0
MSR-103	M12x1.25	8.0
MSR-104	M14x1.5	10.0
MSR-105	M16x1.5	12.0
MSR-106	M18x1.5	14.0
MSR-107	M20x1.5	16.0
MSR-108	M24x2.0	20.0
MSR-109	M27x2.0	22.0

Available 130.0 thru 300.0
in 10.0mm Increments

Material: Alloy Steel (Stud Stock) ASTM Spec. A-193

Heat Treat: Brinell 275-310 Stress Relieved

Finish: Black Oxide

Model Number Development

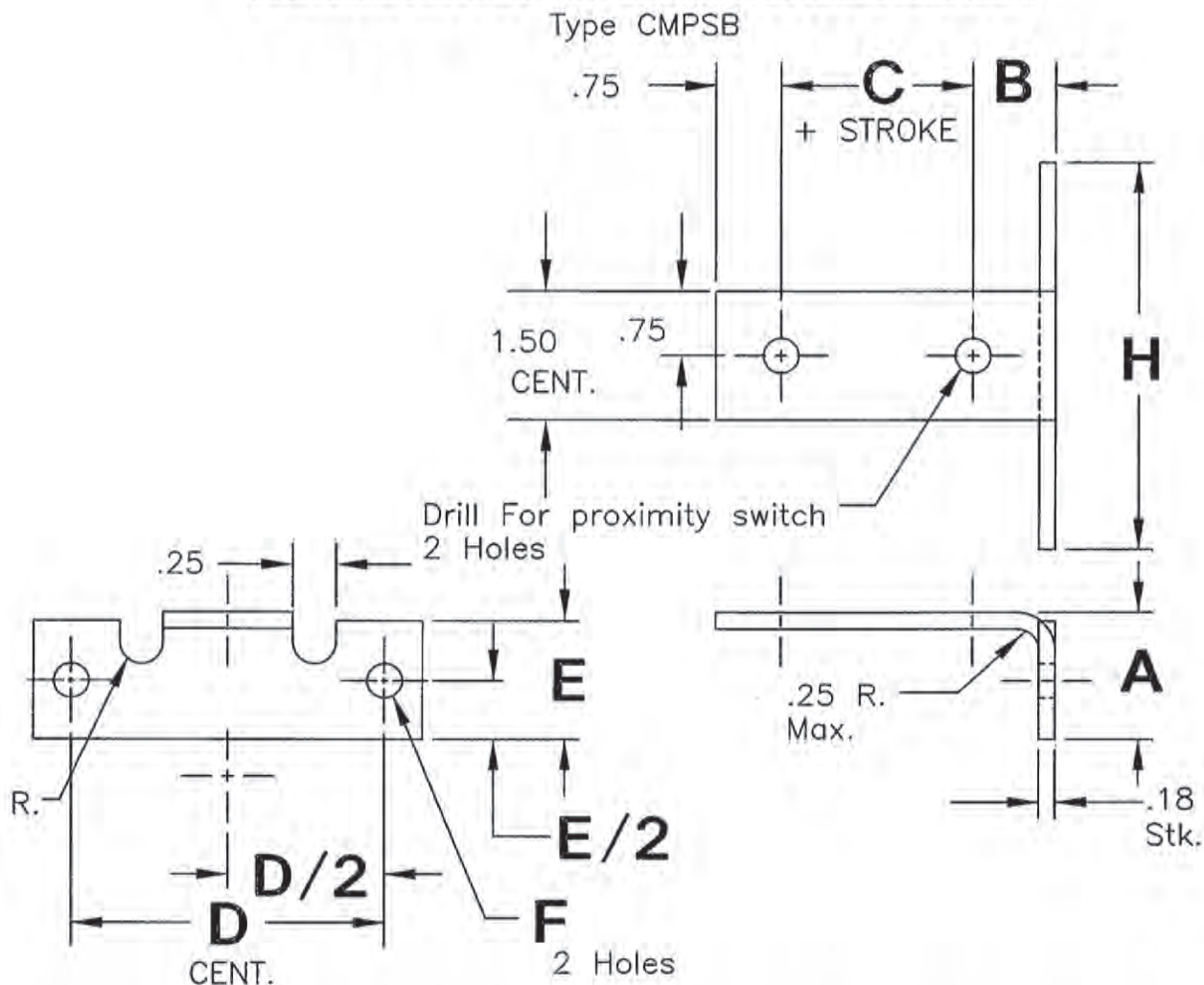
Detail Standard Switch Rod

SR-101-X

Part No. _____
"X" Thread _____

Detail Standard Co.

CYLINDER MOUNT PROXIMITY SWITCH BRACKET



Part No.	Cylinder Bore & Type	A	B	C	D	E	F		H
CMPSB-107	3.25 Bore, Air	1.375	3.500	2.000	2.758	1.000	.438		3.750
CMPSB-108	4.00 Bore, Air	1.188	3.500	2.000	3.323	1.188	.438		4.500
CMPSB-109	3.25 Bore, Hyd.	1.500	3.500	2.000	3.250	1.250	.656		4.500

Model Number Development

Metric Cylinder Proximity Switch Bracket

CMPSB-109-50.0-18mm-C

Part Number _____
 Cylinder Stroke _____
 Proximity Switch Size _____
 Material _____

C = Material: 1018 C.R.S., Heat Treat: None, Finish: Black Oxide

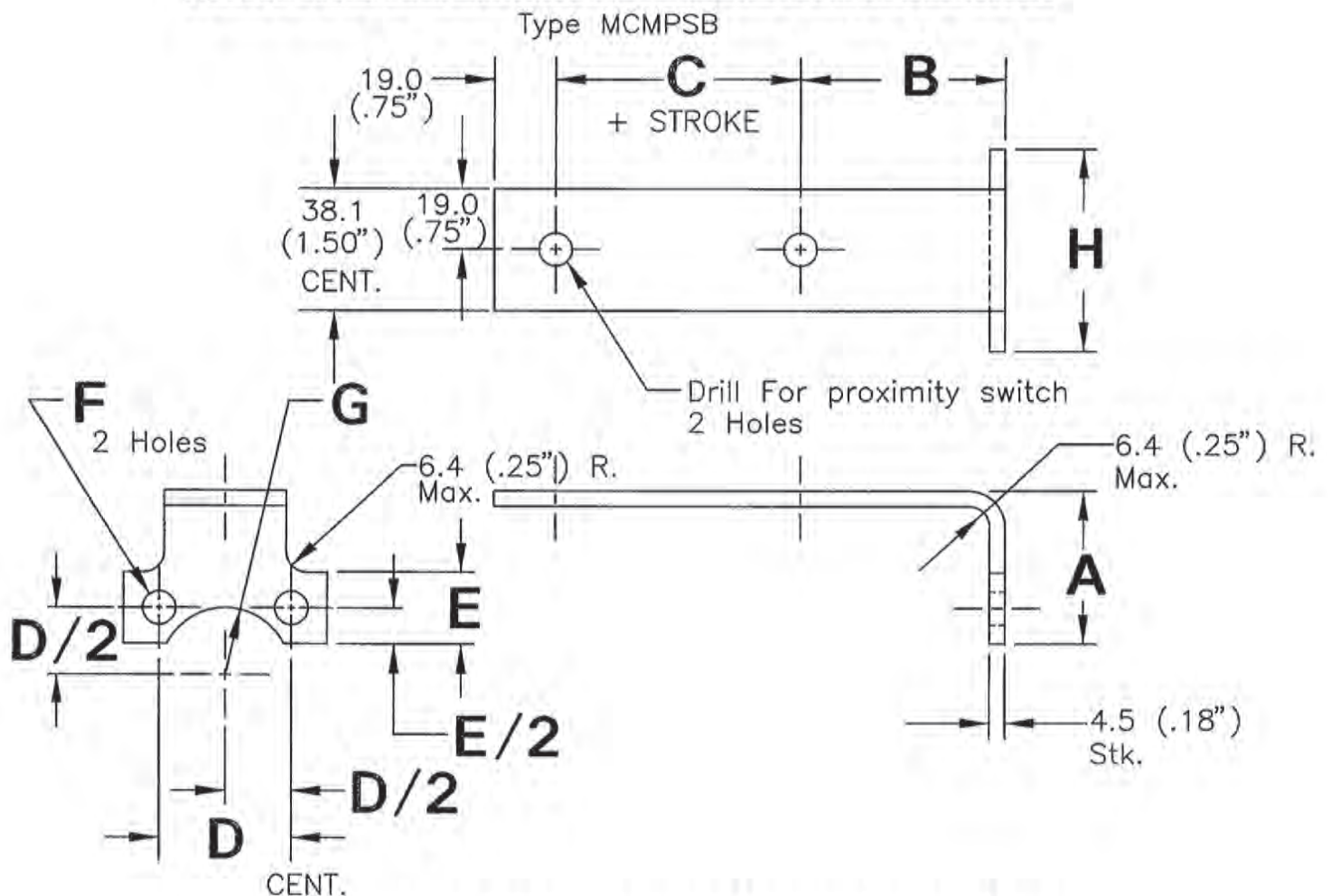
A = Material: Aluminum, Heat Treat: None, Finish: Natural Finish

S = Material: Stainless Steel, Heat Treat: None, Finish: Natural Finish

NOTE: This Bracket Will Accommodate 8mm, 12mm & 18mm Proximity Switch's

Detail Standard Co.

METRIC CYLINDER MOUNT PROXIMITY SWITCH BRACKET



Part No.	Cylinder Bore & Type	A	B	C	D	E	F	G	H
MCMPSB-101	32mm Bore, Air	38.1	65.0	50.0	32.5	17.5	6.8	20.0	50.0
MCMPSB-102	40mm Bore, Air	38.1	70.0	50.0	38.0	19.4	6.8	20.0	57.4
MCMPSB-103	50mm Bore, Air	38.1	75.0	50.0	46.5	22.9	8.8	25.0	69.4
MCMPSB-104	63mm Bore, Air.	38.1	75.0	50.0	56.5	25.9	8.8	25.0	82.4
MCMPSB-105	25mm Bore, Hyd.	38.1	60.0	50.0	28.3	11.7	5.8	20.0	40.0
MCMPSB-106	32mm Bore, Hyd.	38.1	70.0	50.0	33.2	11.8	6.8	20.0	45.0
MCMPSB-107	40mm Bore, Hyd.	38.1	70.0	50.0	41.7	21.3	8.8	25.0	63.0
MCMPSB-108	50mm Bore, Hyd.	38.1	70.0	50.0	52.3	22.7	12.8	30.0	75.0

Model Number Development

Metric Cylinder Proximity Switch Bracket

MCMPSB-101-50.0-18mm-C

Part Number _____
 Cylinder Stroke _____
 Proximity Switch Size _____
 Material _____

C = Material: 1018 C.R.S., Heat Treat: None, Finish: Black Oxide

A = Material: Aluminum, Heat Treat: None, Finish: Natural Finish

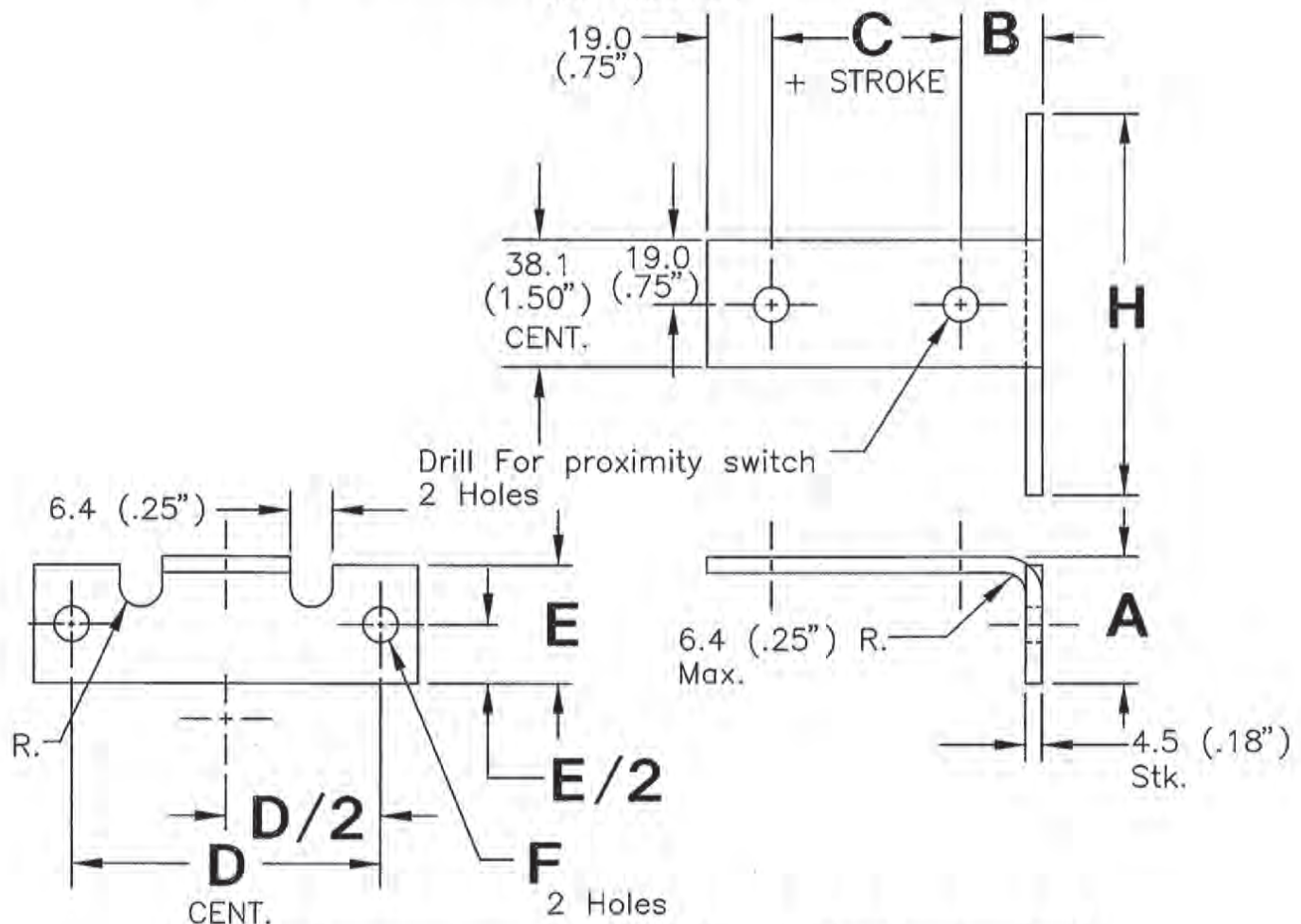
S = Material: Stainless Steel, Heat Treat: None, Finish: Natural Finish

NOTE: This Bracket Will Accommodate 8mm, 12mm & 18mm Proximity Switch's

Detail Standard Co.

METRIC CYLINDER MOUNT PROXIMITY SWITCH BRACKET

Type MCMPSB



Part No.	Cylinder Bore & Type	A	B	C	D	E	F	H
MCMPSB-109	80mm Bore, Air	38.1	85.0	50.0	72.0	27.4	6.8	99.4
MCMPSB-110	100mm Bore, Air	29.4	90.0	50.0	89.0	27.0	6.8	116.0
MCMPSB-111	125mm Bore, Air	25.9	105.0	50.0	110.0	29.0	8.8	139.0
MCMPSB-112	63mm Bore, Hyd.	38.1	90.0	50.0	64.3	25.7	12.8	90.0
MCMPSB-113	80mm Bore, Hyd.	38.1	90.0	50.0	82.7	32.3	16.8	115.0

Model Number Development

Metric Cylinder Proximity Switch Bracket

MCMPSB-109-50.0-18mm-C

Part Number _____
 Cylinder Stroke _____
 Proximity Switch Size _____
 Material _____

C = Material: 1018 C.R.S., Heat Treat: None, Finish: Black Oxide

A = Material: Aluminum, Heat Treat: None, Finish: Natural Finish

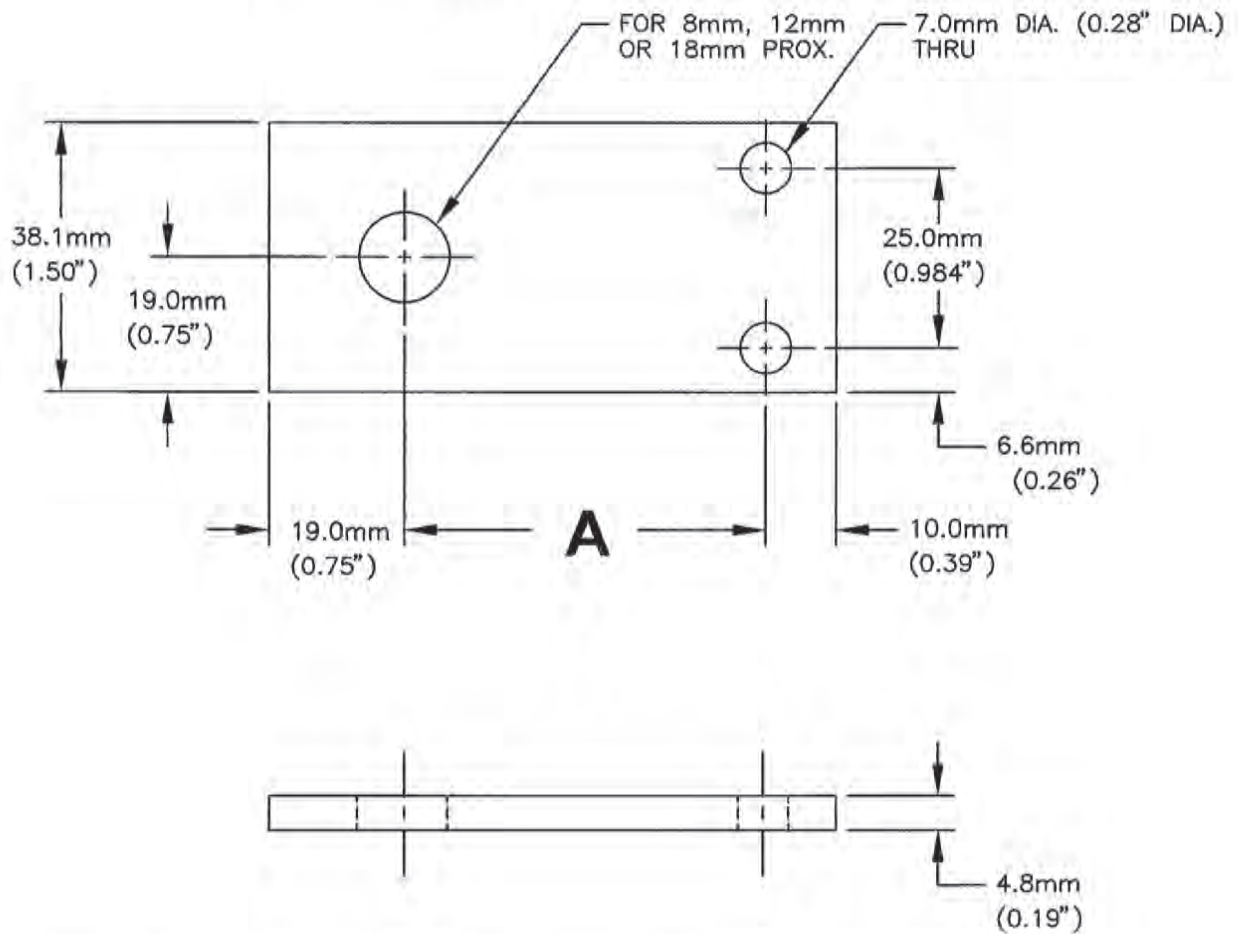
S = Material: Stainless Steel, Heat Treat: None, Finish: Natural Finish

NOTE: This Bracket Will Accommodate 8mm, 12mm & 18mm Proximity Switch's

Detail Standard Co.

STRIGHT PROX SWITCH BRACKET

Type SPSB-101



C = Material: 1018 C.R.S., Finish: Black Oxide

A = Material: Aluminum, Finish: Natural

S = Material: Stainless Steel, Finish: Natural

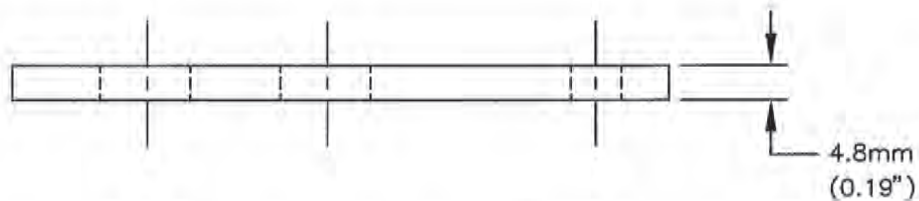
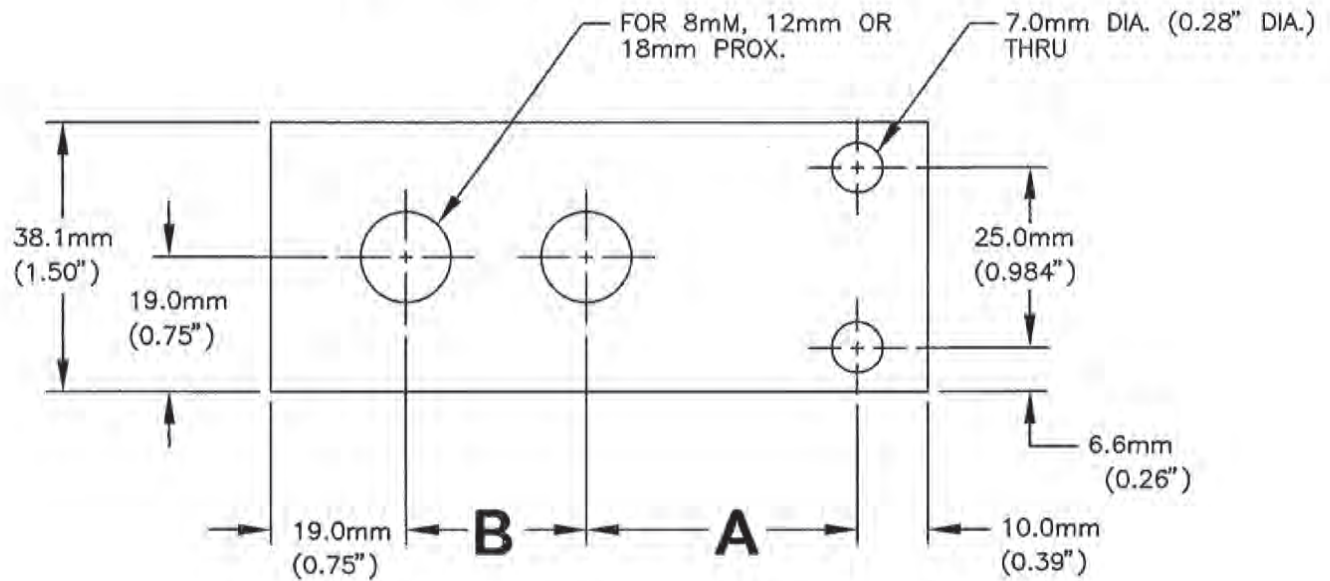
Model Number Development

Stright Prox Switch Bracket _____ SPSB-101-50-12-C
"A" Dim. in Millimeters _____
Proximity Switch Size _____
Material _____

Detail Standard Co.

STRIGHT PROX SWITCH BRACKET

Type SPSB-102



C = Material: 1018 C.R.S., Finish: Black Oxide

A = Material: Aluminum, Finish: Natural

S = Material: Stainless Steel, Finish: Natural

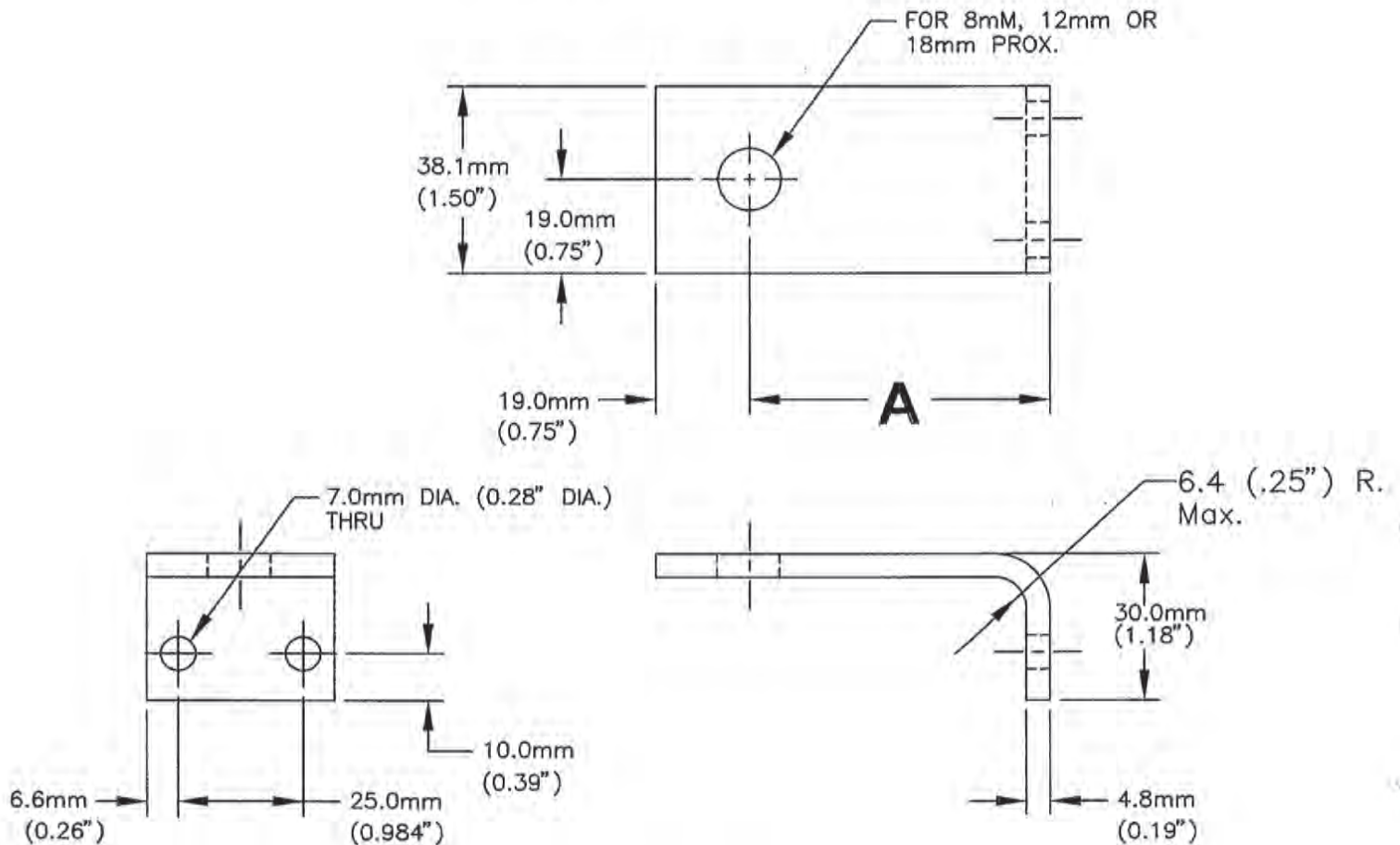
Model Number Development

		SPSB-102	-50	-25	-12	-C
Stright Prox Switch Bracket	_____					
"A" Dim. in Millimeters	_____					
"B" Dim. in Millimeters	_____					
Proximity Switch Size	_____					
Material	_____					

Detail Standard Co.

BENT PROX SWITCH BRACKET

Type BPSB-101



C = Material: 1018 C.R.S., Finish: Black Oxide

A = Material: Aluminum, Finish: Natural

S = Material: Stainless Steel, Finish: Natural

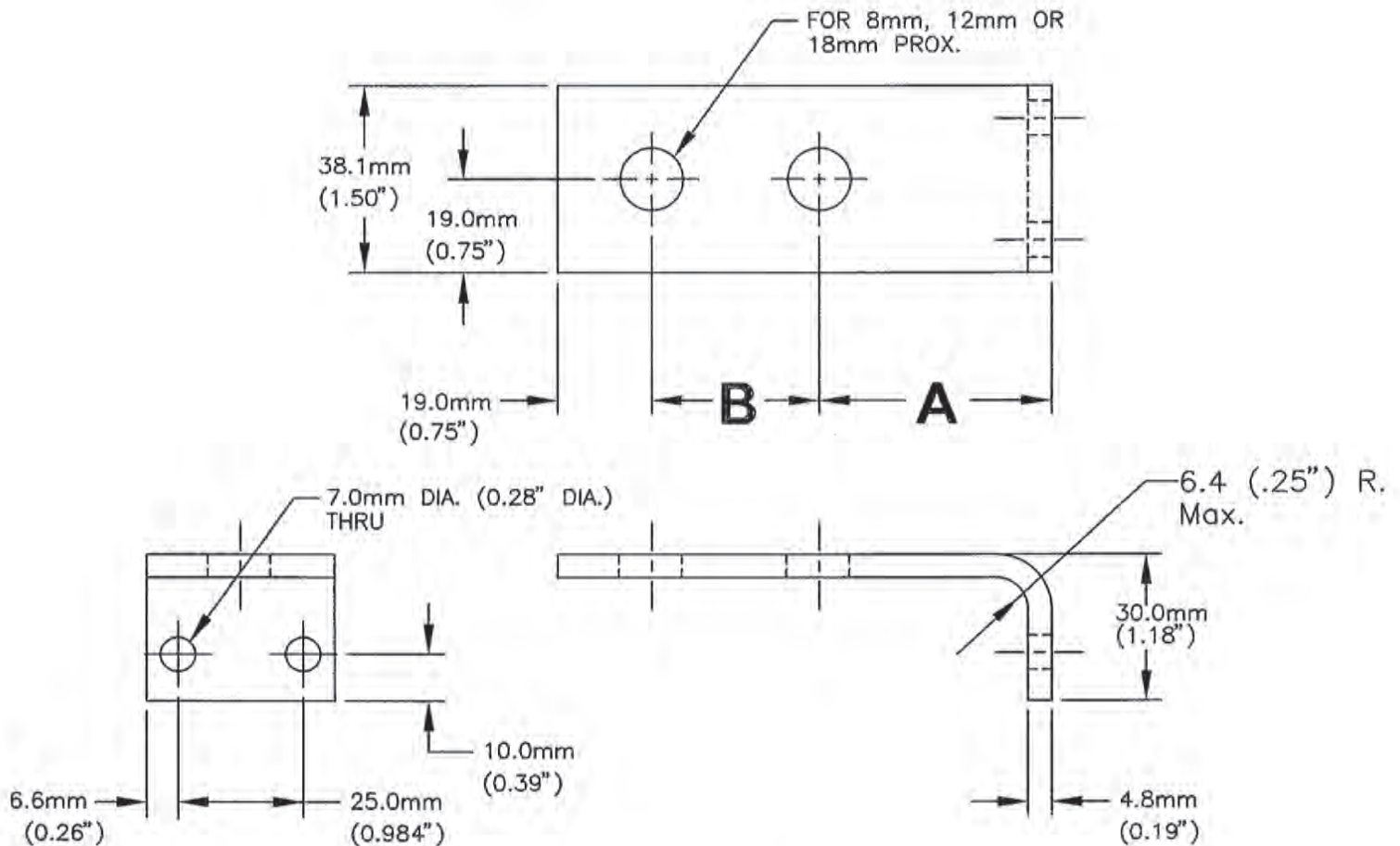
Model Number Development

Bent Prox Switch Bracket _____ BPSB-101-50-12-C
"A" Dim. in Millimeters _____
Proximity Switch Size _____
Material _____

Detail Standard Co.

BENT PROX SWITCH BRACKET

Type BPSB-102



C = Material: 1018 C.R.S., Finish: Black Oxide

A = Material: Aluminum, Finish: Natural

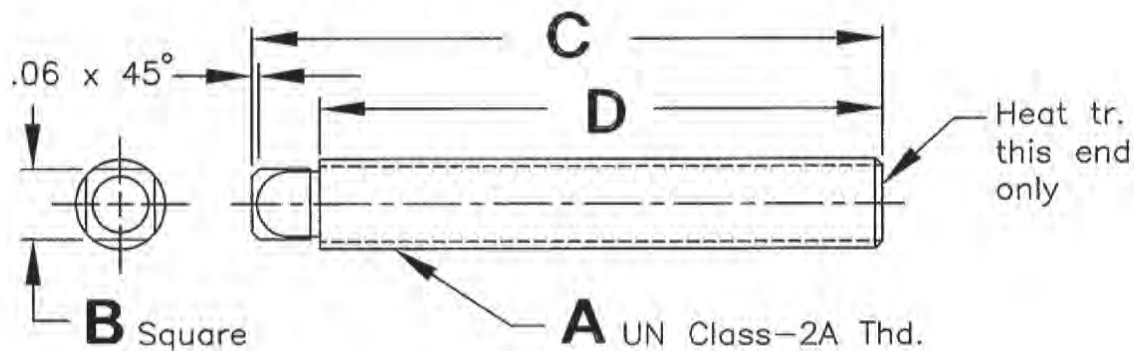
S = Material: Stainless Steel, Finish: Natural

Model Number Development

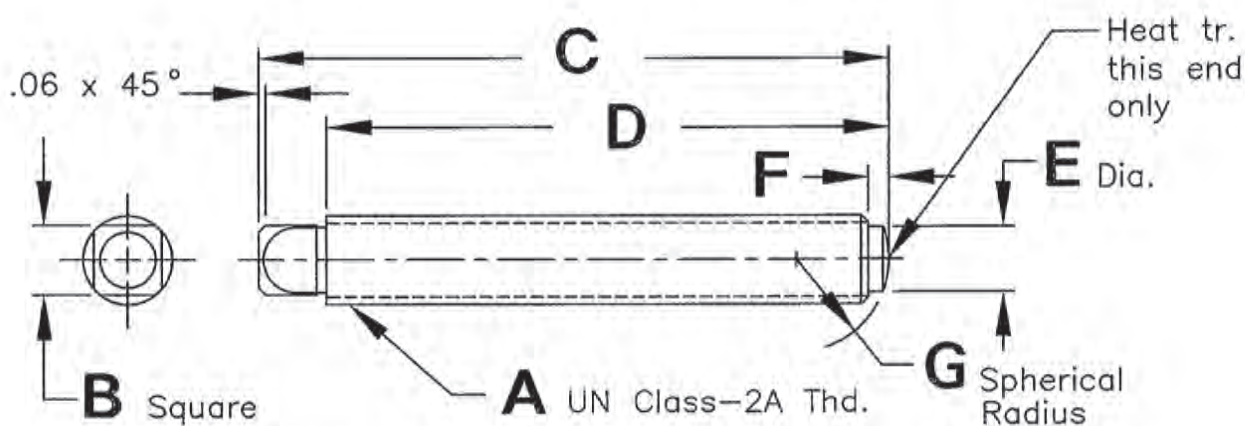
	BPSB-102-50-20-12-C
Bent Prox Switch Bracket	_____
"A" Dim. in Millimeters	_____
"B" Dim. in Millimeters	_____
Proximity Switch Size	_____
Material	_____

Detail Standard Co.

JACK SCREW/LEVELING SCREW



Part Number	A	B	C	D	Cad File No.
JS-3410-757	3/4-10	.53	7.57	7.00	JS34
JS-0108-775	1-8	.71	7.75	7.00	JS01
JS-11412-794	1 1/4-12	.88	7.94	7.00	JS114
JS-11212-812	1 1/2-12	1.06	8.12	6.50	JS112



Part Number	A	B	C	D	E	F	G	Cad File No.
JS-3410-706-R	3/4-10	.53	7.06	6.50	.58	.18	.56	JS34R
JS-0108-725-R	1-8	.71	7.25	6.50	.82	.26	.75	JS01R
JS-11412-744-R	1 1/4-12	.88	7.44	6.50	1.12	.28	.94	JS114R
JS-11212-762-R	1 1/2-12	1.06	7.62	6.50	1.25	.38	1.12	JS112R

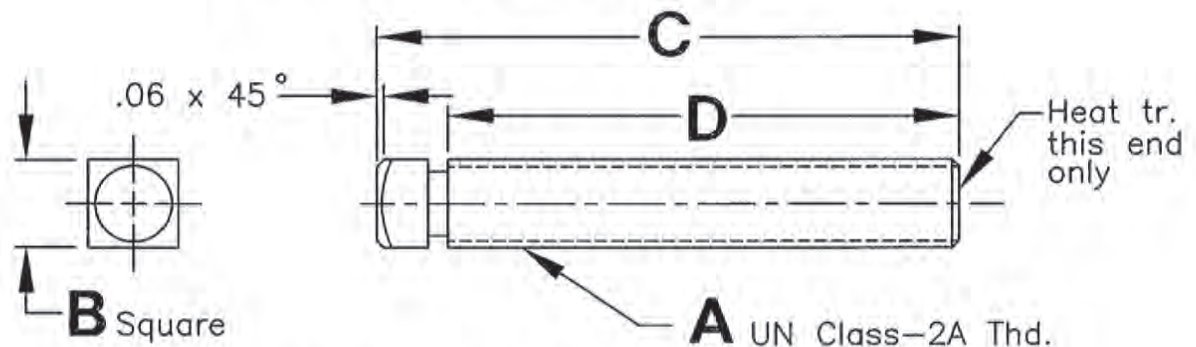
Material: 11L17

Heat treat as shown: Carb. & Hdn. Rock."C" 48-52,.03 Min. Case

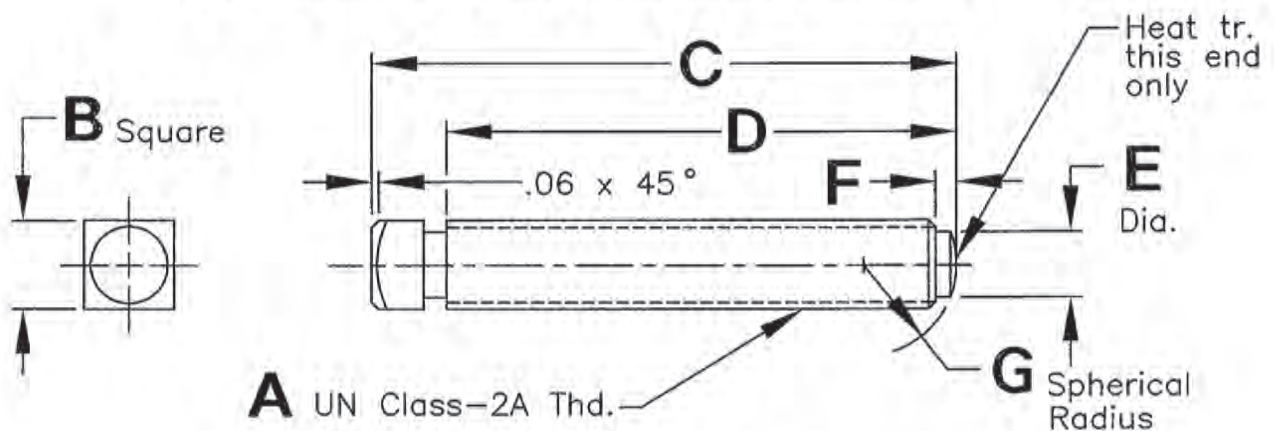
Finish: Black Oxide

Detail Standard Co.

JACK SCREW/LEVELING SCREW



Part Number	A	B	C	D	Cad File No.
LS-0108-7-F	1-8	1.00	7.00	6.38	LS01
LS-0112-7-F	1-12	1.00	7.00	6.38	LS0112
LS-11412-775-F	1 1/4-12	1.25	7.75	6.82	LS114
LS-0114-7-F	1-14	1.00	7.00	6.38	LS0114
LS-3410-7-F	3/4-10	1.00	7.00	6.38	LS34
LS-3416-7-F	3/4-16	1.00	7.00	6.38	LS3416
LS-3410-8-F	3/4-10	1.00	8.62	8.00	LS34-8



Part Number	A	B	C	D	E	F	G	Cad File No.
LS-0108-7-R	1-8	1.00	7.00	6.38	.82	.26	1.00	LS01R
LS-0112-7-R	1-12	1.00	7.00	6.38	.82	.26	1.00	LS0112R
LS-11412-775-R	1 1/4-12	1.25	7.75	6.82	1.12	.28	1.00	LS114R
LS-0114-7-R	1-14	1.00	7.00	6.38	.82	.26	1.00	LS0114R
LS-3410-7-R	3/4-10	1.00	7.00	6.38	.58	.26	1.00	LS34R
LS-3416-7-R	3/4-16	1.00	7.00	6.38	.58	.26	1.00	LS3416R
LS-3410-8-R	3/4-10	1.00	8.62	8.00	.58	.26	1.00	LS34-8R

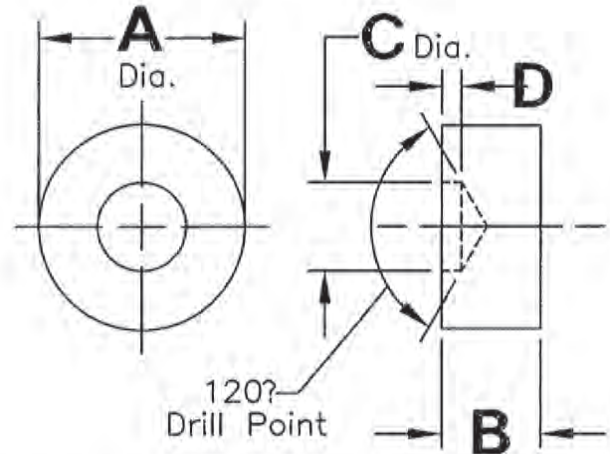
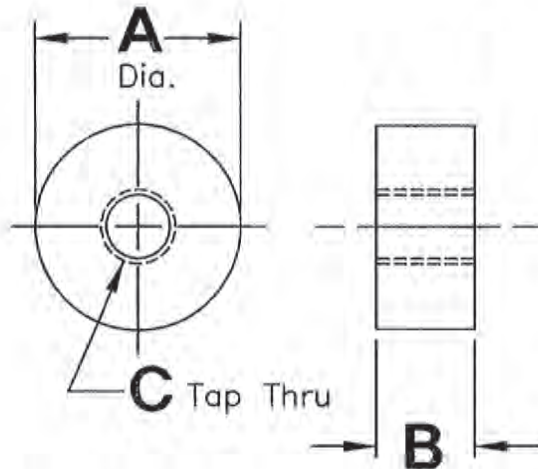
Material: 11L17

Heat treat as shown: Carb. & Hdn. Rock."C" 48-52,.03 Min. Case

Finish: Black Oxide

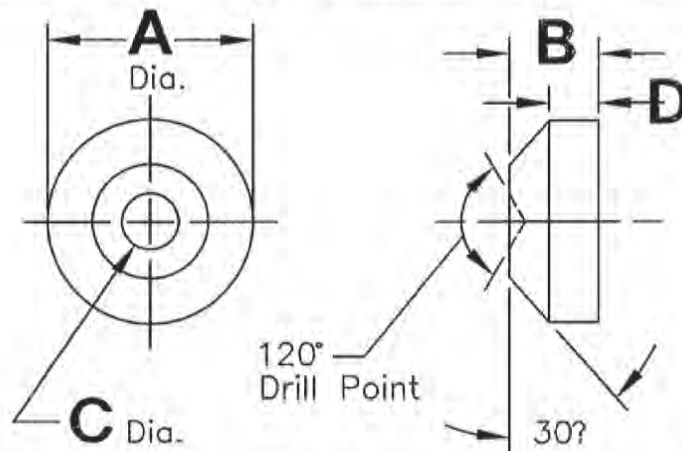
Detail Standard Co.

LEVELING SCREW PADS



Part Number	A	B	C	Cad File No.
LSP-01-T	2.50	1.50	3/4-10	LSP01T
LSP-02-T	2.50	1.50	1-8	LSP02T
LSP-03-T	3.00	1.50	1 1/4-12	LSP03T
LSP-04-T	3.50	1.50	1 1/2-12	LSP04T

Part Number	A	B	C	D	Cad File No.
LSP-01-H	2.50	1.50	.88	.25	LSP01H
LSP-02-H	2.50	1.50	1.12	.25	LSP02H
LSP-03-H	3.00	1.50	1.38	.25	LSP03H
LSP-04-H	3.50	1.50	1.62	.25	LSP04H



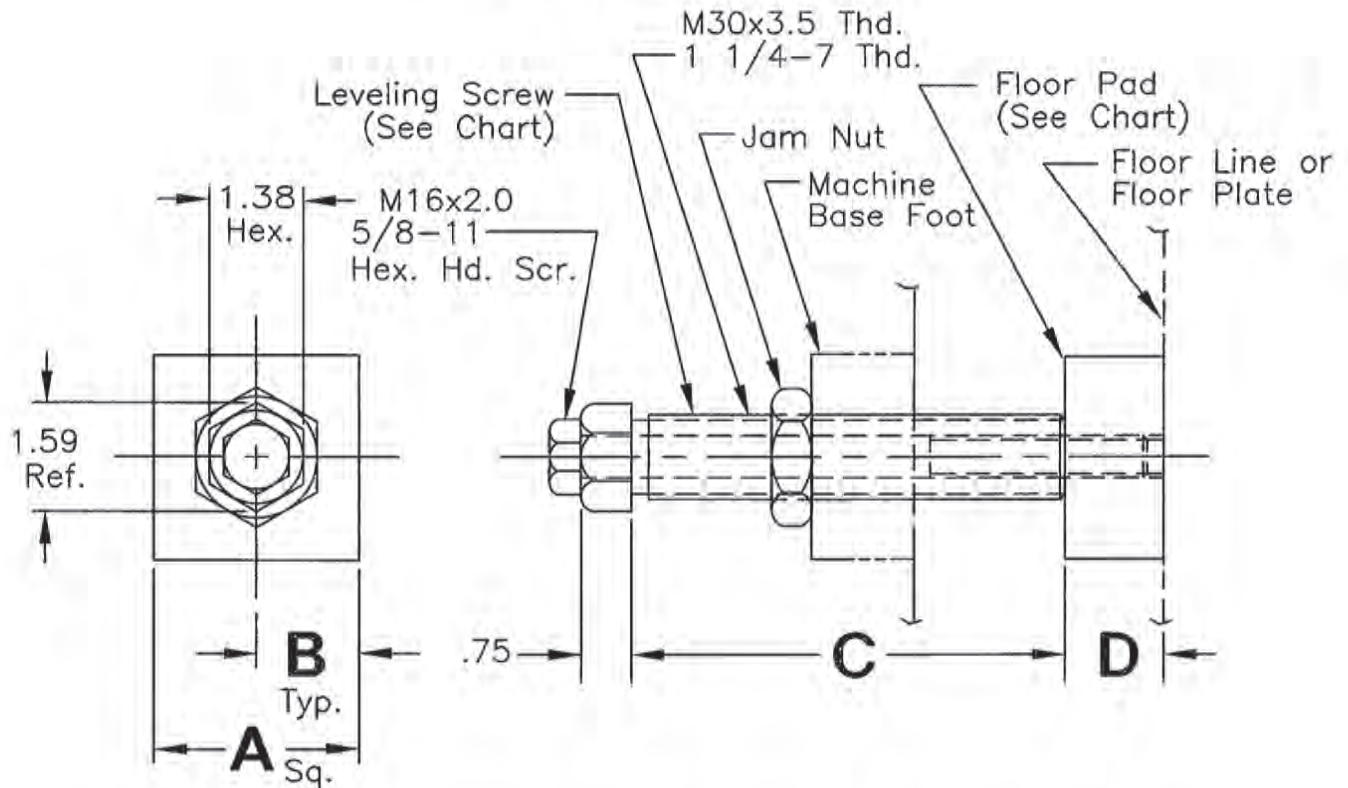
Part Number	A	B	C	D	Cad File No.
LSP-01-CH	5.00	1.50	1.25	.75	LSP01CH

Material: Steel
Finish: Black Oxide

Detail Standard Co.

HOLD DOWN/LEVELING SCREW ASSEMBLY

Type HL & MHL



Metric Part Number	English Part Number	A	B	C	D	Floor Pad	Leveling Screw	CAD FILE NO.
MHL-76-102	HL-3-4	3.00	1.50	4.00	1.00	STP-12	HLB-4-C	HL34
	HL-3A-4	3.00	1.50	4.00	1.25	STP-13	HLB-4-C	HL3A4
MHL-102-102	HL-4-4	4.00	2.00	4.00	1.00	STP-14	HLB-4-C	HL44
	HL-4A-4	4.00	2.00	4.00	1.25	STP-15	HLB-4-C	HL4A4
MHL-76-127	HL-3-5	3.00	1.50	5.00	1.00	STP-12	HLB-5-C	HL35
	HL-3A-5	3.00	1.50	5.00	1.25	STP-13	HLB-5-C	HL3A5
MHL-102-127	HL-4-5	4.00	2.00	5.00	1.00	STP-14	HLB-5-C	HL45
	HL-4A-5	4.00	2.00	5.00	1.25	STP-15	HLB-5-C	HL4A5
MHL-76-152	HL-3-6	3.00	1.50	6.00	1.00	STP-12	HLB-6-C	HL36
	HL-3A-6	3.00	1.50	6.00	1.25	STP-13	HLB-6-C	HL3A6
MHL-102-152	HL-4-6	4.00	2.00	6.00	1.00	STP-14	HLB-6-C	HL46
	HL-4A-6	4.00	2.00	6.00	1.25	STP-15	HLB-6-C	HL4A6

Each Hold Down/Leveling Screw Assy. Includes:

- (1) Leveling Bolt
- (1) Hold Down Screw
- (1) Floor Pad
- (1) Jam Nut

Material: Steel

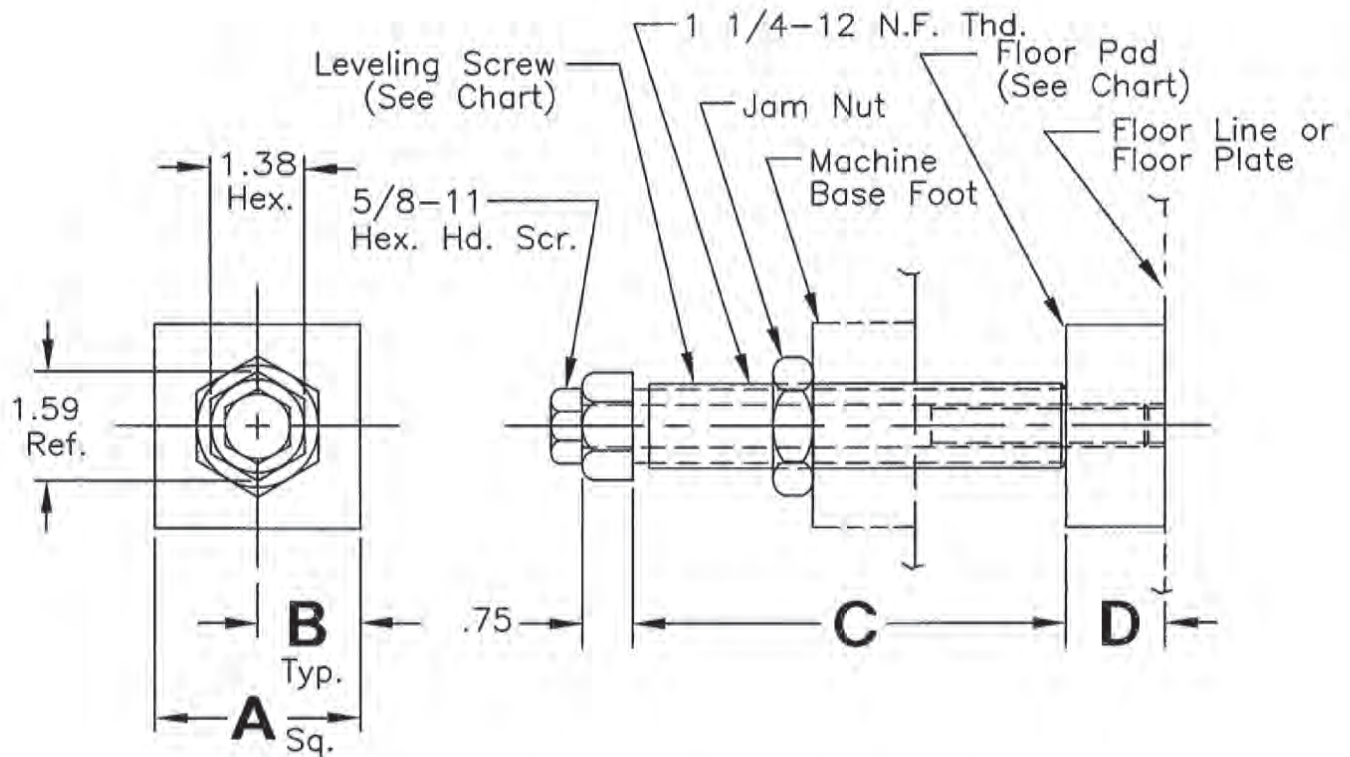
Finish: Black Oxide

Note: All Dimensions for Metric are the Same as English Accept as Noted.

Detail Standard Co.

HOLD DOWN/LEVELING SCREW ASSEMBLY

Type HLF



Part Number	A	B	C	D	Floor Pad	Leveling Screw	CAD FILE NO.
HLF-3-4	3.00	1.50	4.00	1.00	STP-12	HLB-4-F	HLF34
HLF-3A-4	3.00	1.50	4.00	1.25	STP-13	HLB-4-F	HLF3A4
HLF-4-4	4.00	2.00	4.00	1.00	STP-14	HLB-4-F	HLF44
HLF-4A-4	4.00	2.00	4.00	1.25	STP-15	HLB-4-F	HLF4A4
HLF-3-5	3.00	1.50	5.00	1.00	STP-12	HLB-5-F	HLF35
HLF-3A-5	3.00	1.50	5.00	1.25	STP-13	HLB-5-F	HLF3A5
HLF-4-5	4.00	2.00	5.00	1.00	STP-14	HLB-5-F	HLF45
HLF-4A-5	4.00	2.00	5.00	1.25	STP-15	HLB-5-F	HLF4A5
HLF-3-6	3.00	1.50	6.00	1.00	STP-12	HLB-6-F	HLF36
HLF-3A-6	3.00	1.50	6.00	1.25	STP-13	HLB-6-F	HLF3A6
HLF-4-6	4.00	2.00	6.00	1.00	STP-14	HLB-6-F	HLF46
HLF-4A-6	4.00	2.00	6.00	1.25	STP-15	HLB-6-F	HLF4A6

Each Hold Down/Leveling Screw Assy. Includes:

- (1) Leveling Bolt
- (1) Hold Down Screw
- (1) Floor Pad
- (1) Jam Nut

Material: Steel

Finish: Black Oxide

Detail Standard Co.

HOLD DOWN/LEVELING SCREW ASSEMBLY CROSS REFERANCE MATREX

INCH

Detail Standard Company	E & E Special Products
LSA-1-2	ELJ-7502-AM
LSA-2-3.1	ELJ-1003-AM
LSA-3-3	ELJ-1123-AM
LSA-3-5	ELJ-1125-AM
LSA-7-3	ELJ-1503-AM
LSA-4-5	ELJ-1505-AM
LS-2015-50	ELJ-7502-A
LS-2025-50	ELJ-1003-A
LS-2420-75	ELJ-1123-A
LS-2430-75	ELJ-1125-A
LS-3020-100	ELJ-1503-A
LS-3035-100	ELJ-1505-A

METRIC

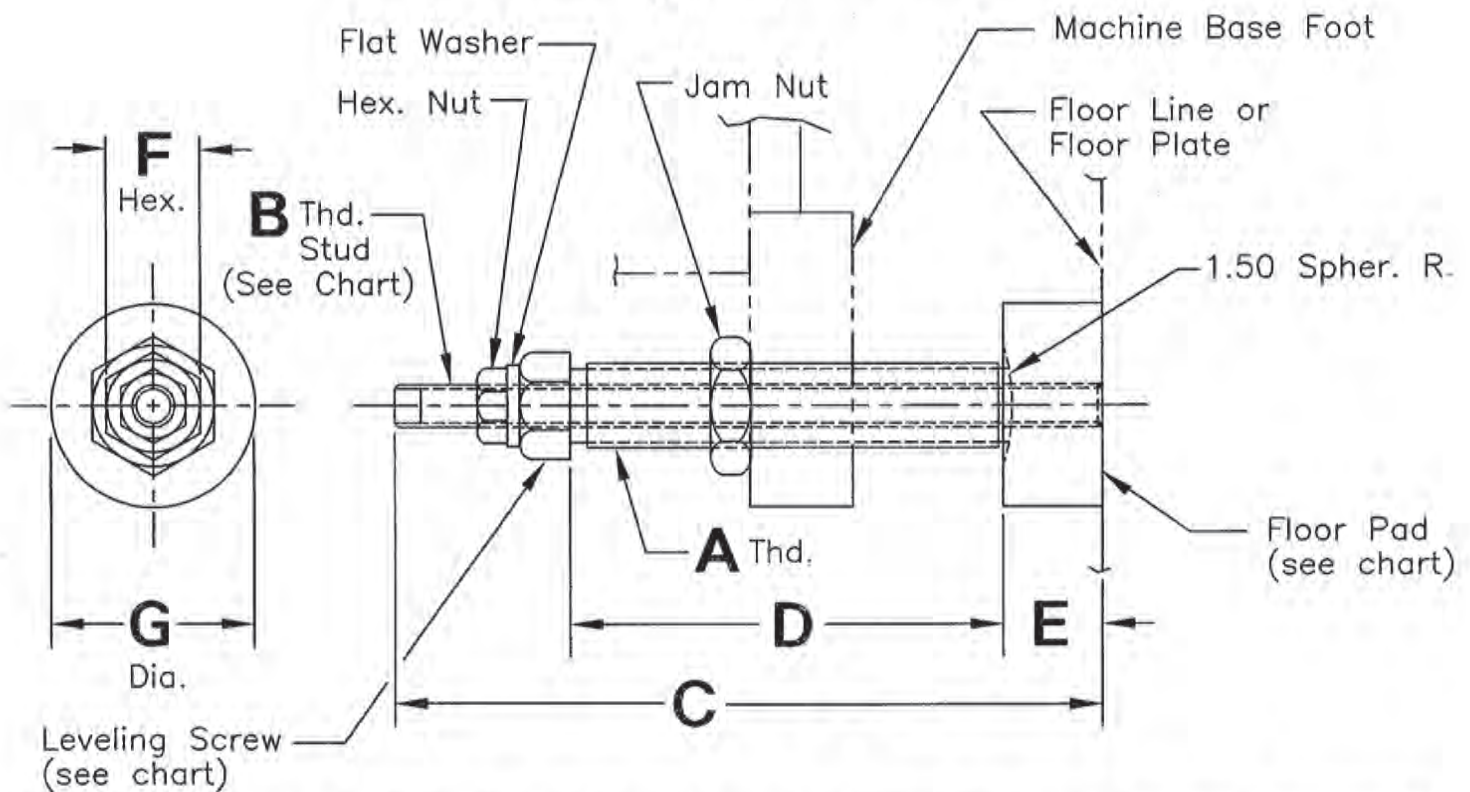
Detail Standard Company	E & E Special Products
MLSA-2015-50	EMLJ-2050-FAM
MLSA-2025-50	EMLJ-2050-CAM
MLSA-2420-75	EMLJ-2475-FAM
MLSA-2430-75	EMLJ-2475-CAM
MLSA-3020-100	EMLJ-3010-FAM
MLSA-3035-100	EMLJ-3010-CAM
MLSA-3020-150	EMLJ-3015-FAM
MLSA-3035-150	EMLJ-3015-CAM
MLSA-3630-100	EMLJ-3610-FAM
MLSA-3640-100	EMLJ-3610-CAM
MLSA-3630-150	EMLJ-3615-FAM
MLSA-3640-150	EMLJ-3615-CAM
MLSA-3930-100	EMLJ-3910-FAM
MLSA-3940-100	EMLJ-3910-CAM
MLSA-3930-150	EMLJ-3915-FAM
MLSA-3940-150	EMLJ-3915-CAM
MLS-2015-50	EMLJ-2050-FA
MLS-2025-50	EMLJ-2050-CA
MLS-2420-75	EMLJ-2475-FA
MLS-2430-75	EMLJ-2475-CA
MLS-3020-100	EMLJ-3010-FA
MLS-3035-100	EMLJ-3010-CA
MLS-3020-150	EMLJ-3015-FA
MLS-3035-150	EMLJ-3015-CA
MLS-3630-100	EMLJ-3610-FA
MLS-3640-100	EMLJ-3610-CA
MLS-3630-150	EMLJ-3615-FA
MLS-3640-150	EMLJ-3615-CA
MLS-3930-100	EMLJ-3910-FA
MLS-3940-100	EMLJ-3910-CA
MLS-3930-150	EMLJ-3915-FA
MLS-3940-150	EMLJ-3915-CA

NOTE: All Dimensions are from E & E Special Products Catalog Pages D-3 & E-39.

Detail Standard Co.

HOLD DOWN/LEVELING SCREW ASSEMBLY

Type LSA



Part Number	A	B	C	D	E	F	G	Floor Pad	Stud	Leveling Screw	CAD FILE NO.
LSA-1-4	3/4-16	3/8-16	7.00	4.00	1.00	.88	2.00	F-20	S-1-70	LS-1-4	LSA14
LSA-2-4	1-14	1/2-13	7.00	4.00	1.00	1.12	2.25	F-22	S-2-70	LS-2-4	LSA24
LSA-2-5	1-14	1/2-13	8.00	5.00	1.00	1.12	2.25	F-22	S-2-80	LS-2-5	LSA25
LSA-3-5	1 1/8-12	1/2-13	8.50	5.00	1.25	1.25	2.50	F-25	S-3-85	LS-3-5	LSA35
LSA-3-6	1 1/8-12	1/2-13	9.50	6.00	1.25	1.25	2.50	F-25	S-3-95	LS-3-6	LSA36
LSA-4-5	1 1/4-7	5/8-11	8.50	5.00	1.25	1.38	2.50	F-26	S-4-85	LS-4-5	LSA45
LSA-4-6	1 1/4-7	5/8-11	9.50	6.00	1.25	1.38	2.50	F-26	S-4-95	LS-4-6	LSA46
LSA-5-5	1 1/4-12	5/8-11	8.50	5.00	1.25	1.38	2.50	F-26	S-4-85	LS-5-5	LSA55
LSA-5-6	1 1/4-12	5/8-11	9.50	6.00	1.25	1.38	2.50	F-26	S-4-95	LS-5-6	LSA56
LSA-6-5	1 1/2-6	5/8-11	9.00	5.00	1.25	1.62	2.50	F-26	S-4-90	LS-6-5	LSA65
LSA-7-5	1 1/2-12	5/8-11	9.00	5.00	1.25	1.62	2.50	F-26	S-4-90	LS-7-5	LSA75
LSA-7-6	1 1/2-12	5/8-11	10.00	6.00	1.25	1.62	2.50	F-26	S-4-100	LS-7-6	LSA76

Each Hold Down/Leveling Screw Assy. Includes:

- (1) Leveling Screw
- (1) Floor Pad
- (1) Stud
- (1) Flat Washer
- (1) Hex. Nut
- (1) Jam Nut

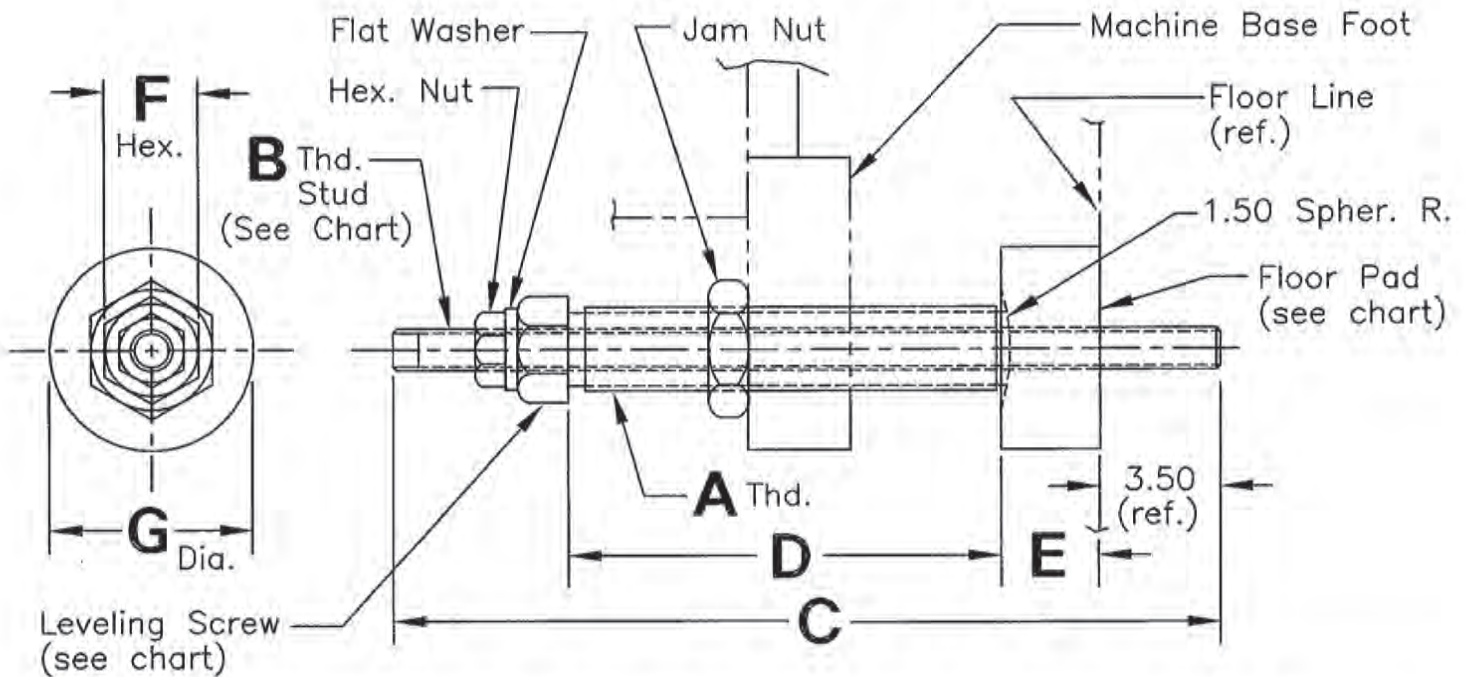
Material: Steel

Finish: Black Oxide

Detail Standard Co.

HOLD DOWN/LEVELING SCREW ASSEMBLY

Type LSB



Part Number	A	B	C	D	E	F	G	Floor Pad	Stud	Leveling Screw	CAD FILE NO.
LSB-1-4	3/4-16	3/8-16	10.50	4.00	1.00	.88	2.00	F-20	S-1-105	LS-1-4	LSB14
LSB-2-4	1-14	1/2-13	10.50	4.00	1.00	1.12	2.25	F-22	S-2-105	LS-2-4	LSB24
LSB-2-5	1-14	1/2-13	11.50	5.00	1.00	1.12	2.25	F-22	S-2-115	LS-2-5	LSB25
LSB-3-3	1 1/8-12	1/2-13	10.00	3.00	1.25	1.25	2.50	F-25	S-3-100	LS-3-3	LSB33
LSB-3-5	1 1/8-12	1/2-13	12.00	5.00	1.25	1.25	2.50	F-25	S-3-120	LS-3-5	LSB35
LSB-3-6	1 1/8-12	1/2-13	13.00	6.00	1.25	1.25	2.50	F-25	S-3-130	LS-3-6	LSB36
LSB-4-5	1 1/4-7	5/8-11	12.00	5.00	1.25	1.38	2.50	F-26	S-4-120	LS-4-5	LSB45
LSB-4-6	1 1/4-7	5/8-11	13.00	6.00	1.25	1.38	2.50	F-26	S-4-130	LS-4-6	LSB46
LSB-5-5	1 1/4-12	5/8-11	12.00	5.00	1.25	1.38	2.50	F-26	S-4-120	LS-5-5	LSB55
LSB-5-6	1 1/4-12	5/8-11	13.00	6.00	1.25	1.38	2.50	F-26	S-4-130	LS-5-6	LSB56
LSB-6-5	1 1/2-6	5/8-11	12.50	5.00	1.25	1.62	2.50	F-26	S-4-125	LS-6-5	LSB65
LSB-7-5	1 1/2-12	5/8-11	12.50	5.00	1.25	1.62	2.50	F-26	S-4-125	LS-7-5	LSB75
LSB-7-6	1 1/2-12	5/8-11	13.50	6.00	1.25	1.62	2.50	F-26	S-4-135	LS-7-6	LSB76
LSB-8-3	1 1/8-12	1/2-13	10.00	3.00	1.25	1.12	2.50	F-25	S-3-100	LS-8-3	LSB83
LSB-8-5	1 1/8-12	1/2-13	12.00	5.00	1.25	1.12	2.50	F-25	S-3-120	LS-8-5	LSB85

Each Hold Down/Leveling Screw Assy. Includes:

- (1) Leveling Screw
- (1) Floor Pad
- (1) Stud
- (1) Flat Washer
- (1) Hex. Nut
- (1) Jam Nut

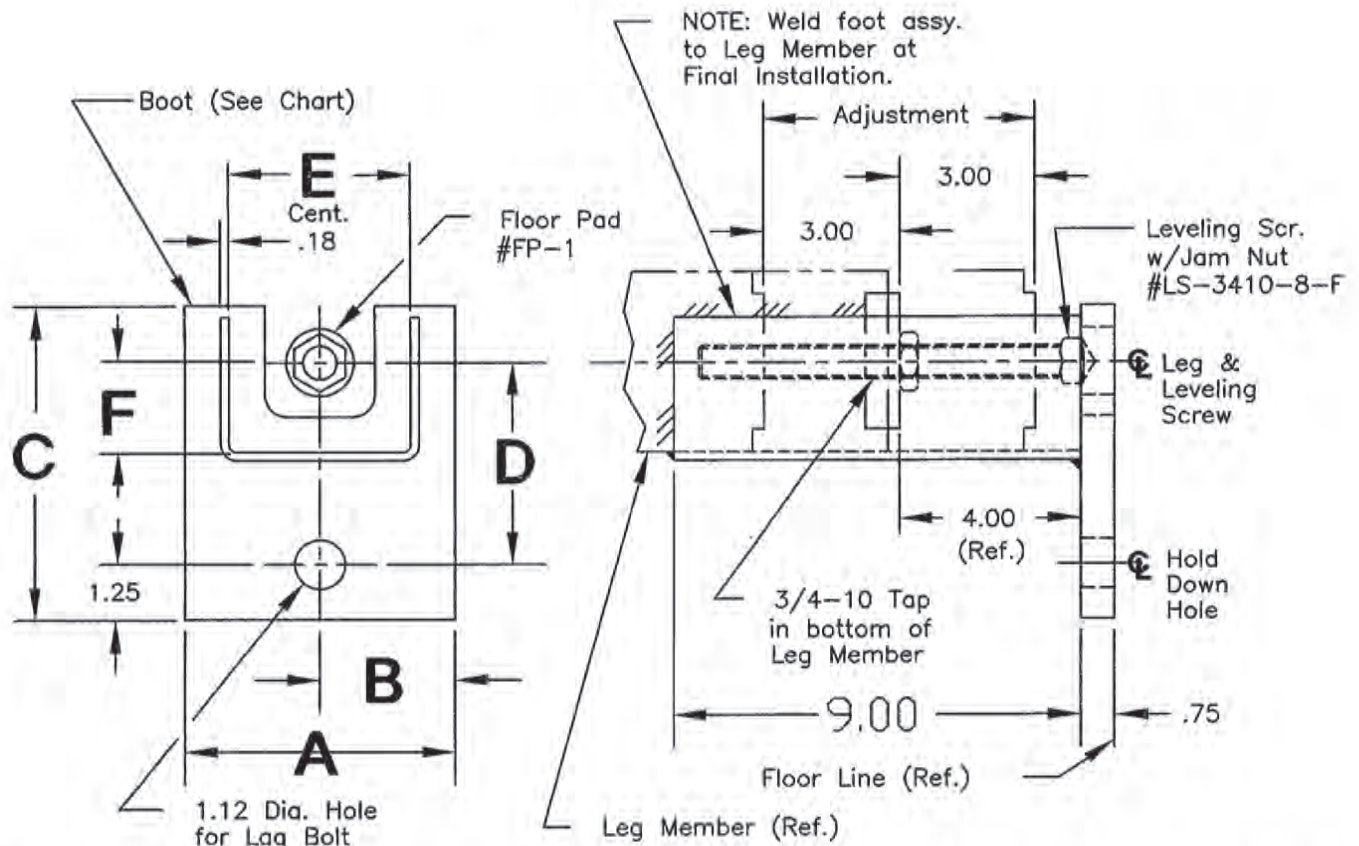
Material: Steel

Finish: Black Oxide

Detail Standard Co.

FOOT ASSEMBLY

Type FA



Part No.	Leg Member Size	A	B	C	D	E	F	Boot	Floor Pad	Leveling Screw	CAD FILE NO.
FA-2-2	2 X 2	3.50	1.75	5.50	3.50	2.03	1.00	B-2-2	FP-1	LS-3410-8-F	FA22
FA-2.5-2.5	2 1/2 X 2 1/2	4.00	2.00	6.00	3.75	2.53	1.25	B-2.5-2.5	FP-1	LS-3410-8-F	FA2525
FA-3-2	3 X 2	5.00	2.50	5.50	3.50	3.03	1.00	B-3-2	FP-1	LS-3410-8-F	FA32
FA-3-3	3 X 3	5.00	2.50	6.50	4.00	3.03	1.50	B-3-3	FP-1	LS-3410-8-F	FA33
FA-4-2	4 X 2	6.00	3.00	5.50	3.50	4.03	1.00	B-4-2	FP-1	LS-3410-8-F	FA42
FA-4-3	4 X 3	6.00	3.00	6.50	4.00	4.03	1.50	B-4-3	FP-1	LS-3410-8-F	FA43
FA-4-4	4 X 4	6.00	3.00	7.00	4.50	4.03	2.00	B-4-4	FP-1	LS-3410-8-F	FA44
FA-6-3	6 X 3	7.50	3.75	6.50	4.00	6.03	1.50	B-6-3	FP-1	LS-3410-8-F	FA63
FA-6-4	6 X 4	7.50	3.75	7.00	4.50	6.03	2.00	B-6-4	FP-1	LS-3410-8-F	FA64
FA-6-6	6 X 6	7.50	3.75	8.00	5.50	6.03	3.00	B-6-6	FP-1	LS-3410-8-F	FA66

Each Foot Assy. Includes:

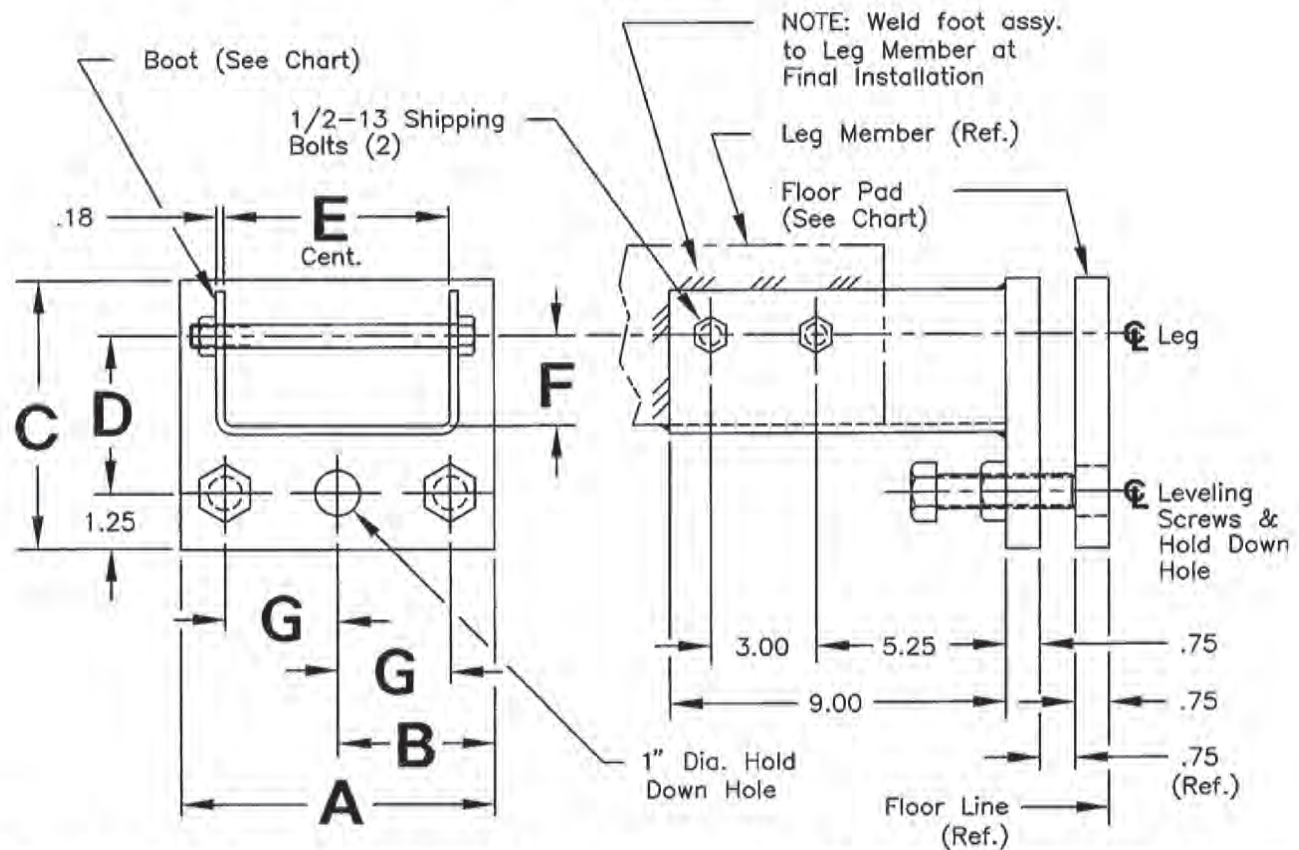
- (1) Boot - Welded Construction
- (1) Floor Pad - Steel
- (1) Leveling Screw Assy. with Jam Nut

Finish: None (Cust. to finish as req'd.)

Detail Standard Co.

FOOT ASSEMBLY

Type FB



Part No.	Leg Member Size	A	B	C	D	E	F	G	Boot	Floor Pad	CAD FILE NO.
FB-2-2	2 X 2	6.00	3.00	5.00	2.75	2.03	1.00	2.00	C-2-2	E-6-5	FB22
FB-2.5-2.5	2 1/2 X 2 1/2	6.00	3.00	5.50	3.00	2.53	1.25	2.00	C-2.5-2.5	E-6-5.5	FB2525
FB-3-2	3 X 2	6.00	3.00	5.00	2.75	3.03	1.00	2.00	C-3-2	E-6-5	FB32
FB-3-3	3 X 3	6.00	3.00	6.00	3.25	3.03	1.50	2.00	C-3-3	E-6-6	FB33
FB-4-2	4 X 2	6.00	3.00	5.00	2.75	4.03	1.00	2.00	C-4-2	E-6-5	FB42
FB-4-3	4 X 3	6.00	3.00	6.00	3.25	4.03	1.50	2.00	C-4-3	E-6-6	FB43
FB-4-4	4 X 4	6.00	3.00	6.00	3.75	4.03	2.00	2.00	C-4-4	E-6-6	FB44
FB-6-3	6 X 3	8.00	4.00	6.00	3.25	6.03	1.50	3.00	C-6-3	E-8-6	FB63
FB-6-4	6 X 4	8.00	4.00	6.00	3.75	6.03	2.00	3.00	C-6-4	E-8-6	FB64
FB-6-6	6 X 6	8.00	4.00	7.00	4.75	6.03	3.00	3.00	C-6-6	E-8-7	FB66

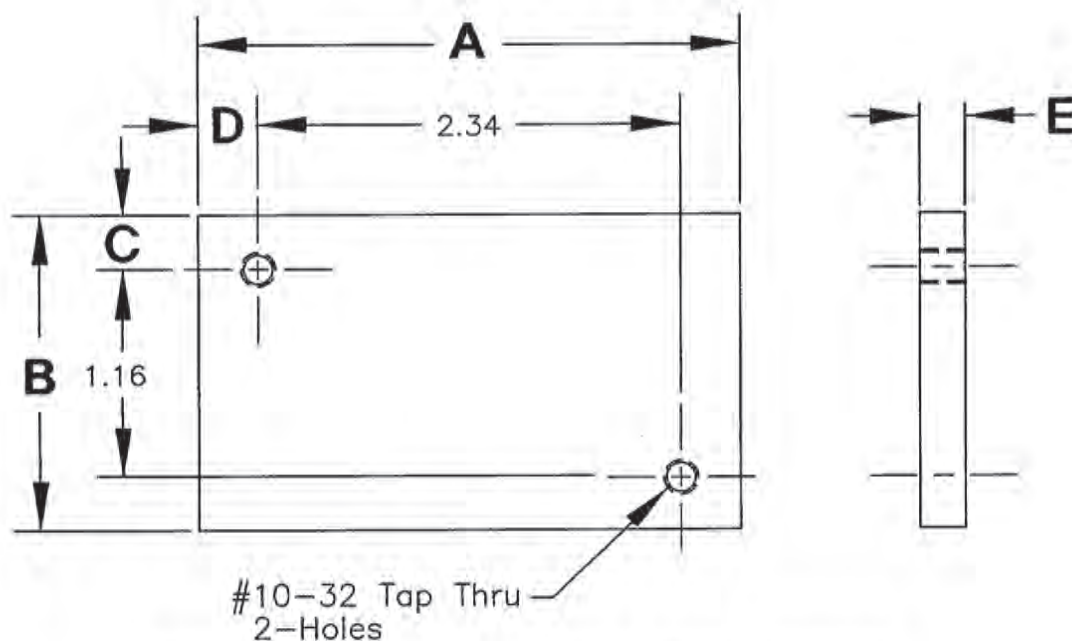
Each Foot Assy. Includes:

- (1) Boot - Welded Construction
- (1) Floor Pad - Steel
- (2) Leveling Screws - 3/4-10 x 3" Lg. Hex Hd. Bolt w/Locknut
- (2) Shipping Bolts - 1/2" Hex. Hd. Bolt w/Locknut

Finish: None (Cust. to finish as req'd.)

Detail Standard Co.

LIMIT SWITCH PLATE



PART NO.	A	B	C	D	E	CAD FILE NO.
SW-001	3.00	1.75	.30	.33	.25	SW001
SW-002	4.00	1.75	.30	.33	.25	SW002
SW-003	5.00	1.75	.30	.33	.25	SW003
SW-004	3.00	2.00	.42	.33	.25	SW004
SW-005	4.00	2.00	.42	.33	.25	SW005
SW-006	5.00	2.00	.42	.33	.25	SW006

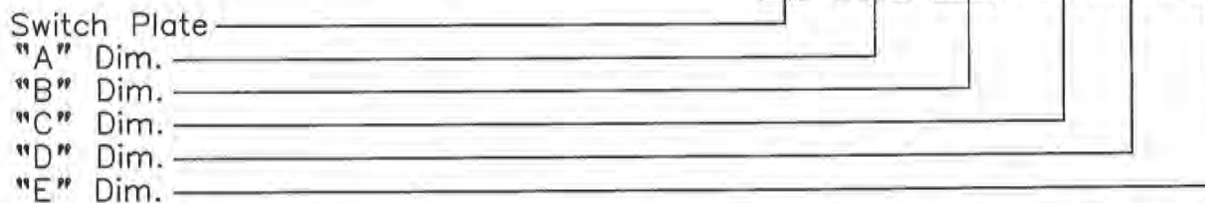
Material: 1018 C.R.S.

Finish: Black Oxide

Model Number Development

Detail Standard Switch Plate

SW-3.25-2.00-.42-.25-.50



NOTE: Sizes in chart above are standard. Other sizes may be ordered as "special" items, using "Model Number Development" format.

Detail Standard COMPANY

Serving Industry with Quality Components:

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