

JOLICO/J-B TOOL, INC.

GLOBAL SUPPLIER OF DIE & AUTOMATION COMPONENTS

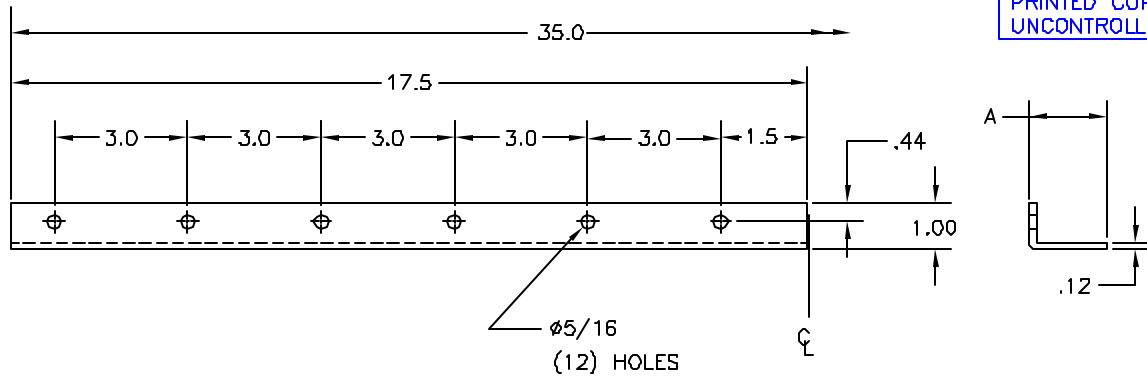
4325 22 Mile Road, Utica, MI 48317-1507

Phone: 586.739.5555 Fax: 586.739.4840



Inch Catalog

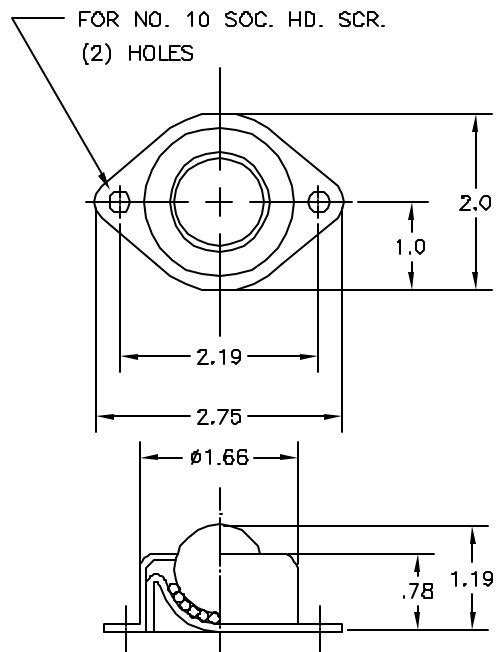
SERVING THE TOOL & DIE INDUSTRY SINCE 1956



SHEET METAL GUARDS

THIS DETAIL IS PRIMARILY USED
ON SMALL DIES TO GUARD SPRING PADS.

JOLICO NO.	REF. NO.	A
J-36301	DX14-8-0301	1.75
J-36302	DX14-8-0302	2.25

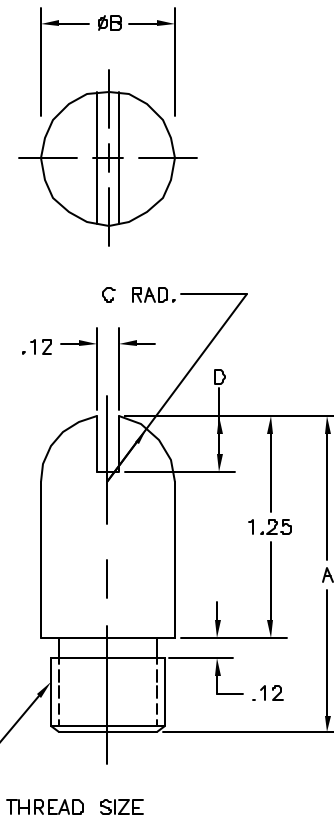


BALL TYPE STOCK TRANSFER

FOR USE ON LOWER SHEDDING
ANGLE CHUTES, OR FOR
FEEDING STOCK INTO DIE

JOLICO NO.	REF. NO.
J-87201	DX18-28-0201
J-87201-N	

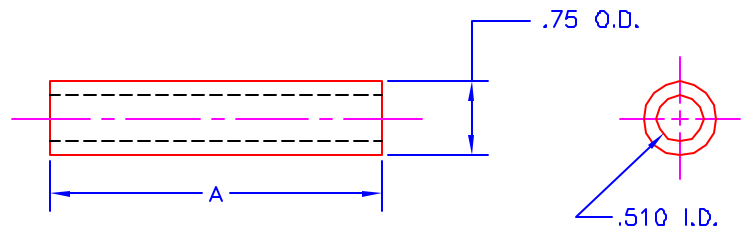
NYLON



SPRING STUDS

PERMITS RETENTION OF DIE SPRING
WITHOUT BORING INTO PAD OR SHOE

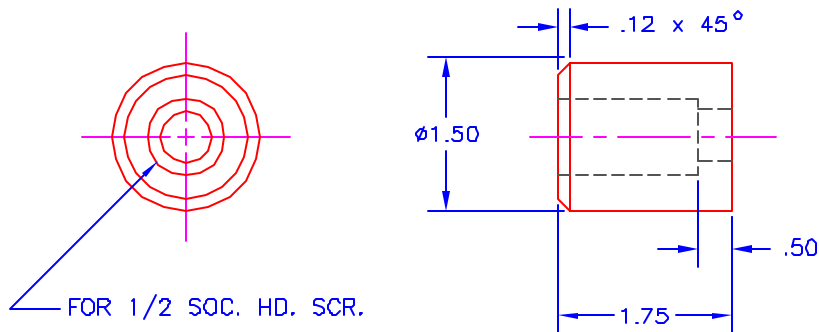
JOLICO NO.	REF. NO.	A	B	C	D	THREAD SIZE
J-96394	0695394	1.75	0.75	.38	.31	5/8-11
J-96472	0695472	2.06	1.00	.50	.44	3/4-10



POSITIVE KNOCKOUT TUBE

THESE TIE THE KO PLATE TO THE STRIPPER
PLATE, BY MEANS OF 1/2 DIA. SCREWS
RUNNING FROM TOP TO BOTTOM THROUGH THE TUBES.

JOLICO NO.	REF. NO.	A
J-27142	DX14-2-1101	3.44
J-27143	DX14-2-1102	3.56
J-27144	DX14-2-1103	4.56



SUPPORT BLOCK

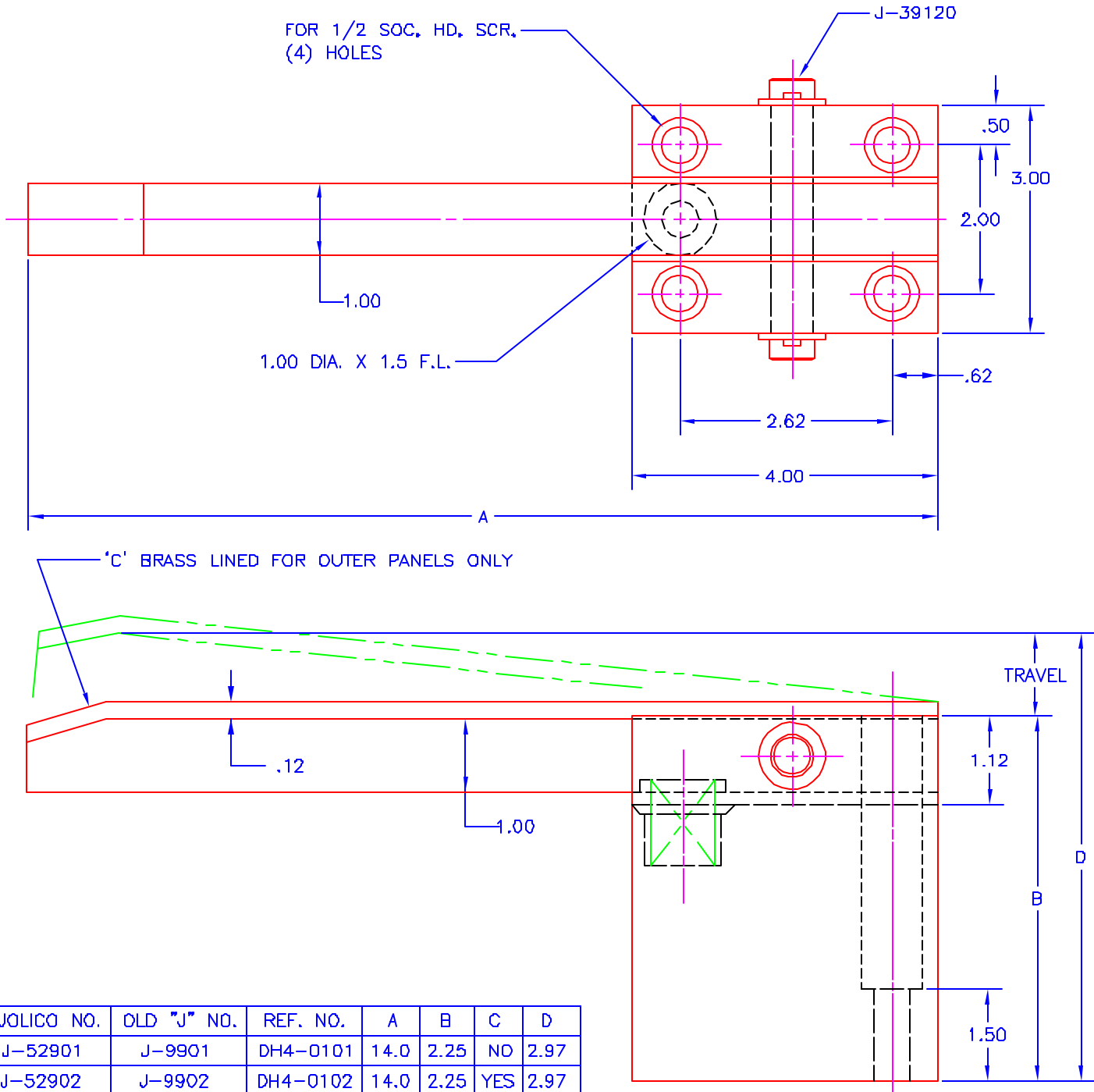
THESE BLOCKS ARE USED IN POSITIVE KNOCK OUT DIES
TO SUPPORT THE PUNCH SHOE THROUGH VERY LARGE
KNOCK OUT PLATES.

JOLICO NO.	REF. NO.
J-28703	DX13-10-0301

STOCK LIFTER

PRINTED COPY IS
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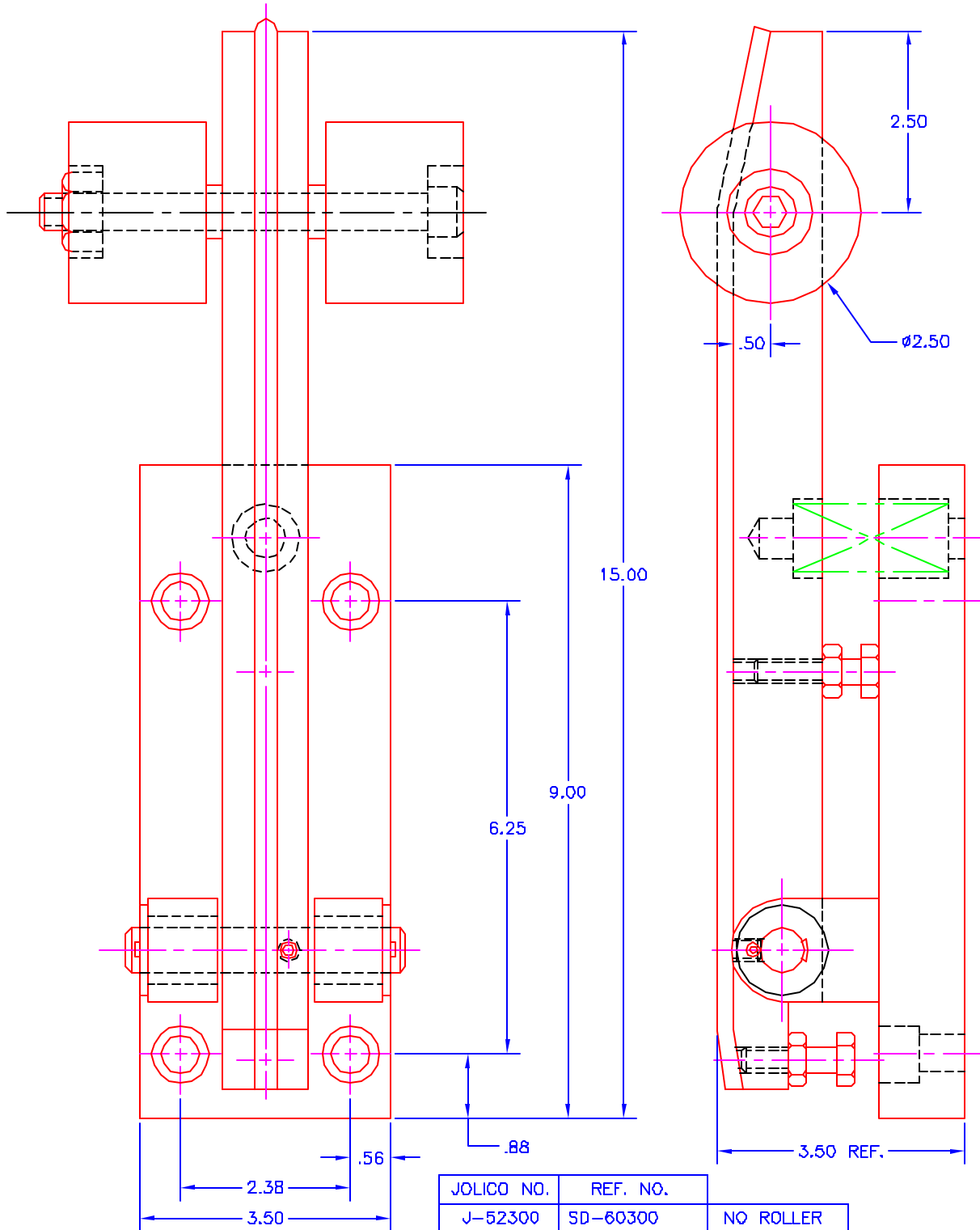
FOR USE ON LARGE MANUAL OR AUTO FEED BLANK DIES.
IT'S PURPOSE IS TO STRIP STOCK FROM LOWER STEELS AND
PERMIT EASIER FEED. UNIT DEVELOPS 20 LBS. APPROX.
FORCE IN CLOSED POSITION.



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STOCK LIFTER

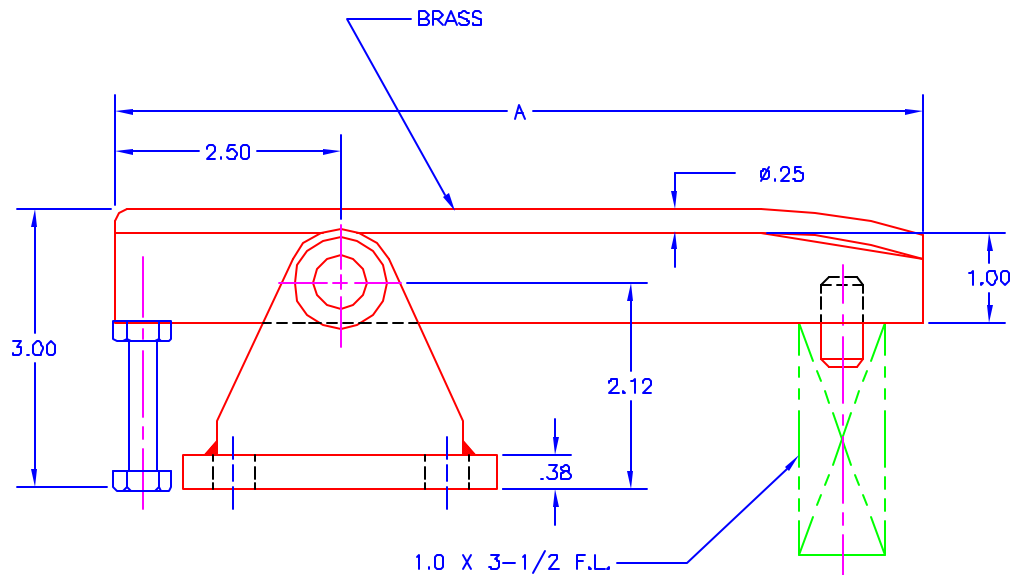
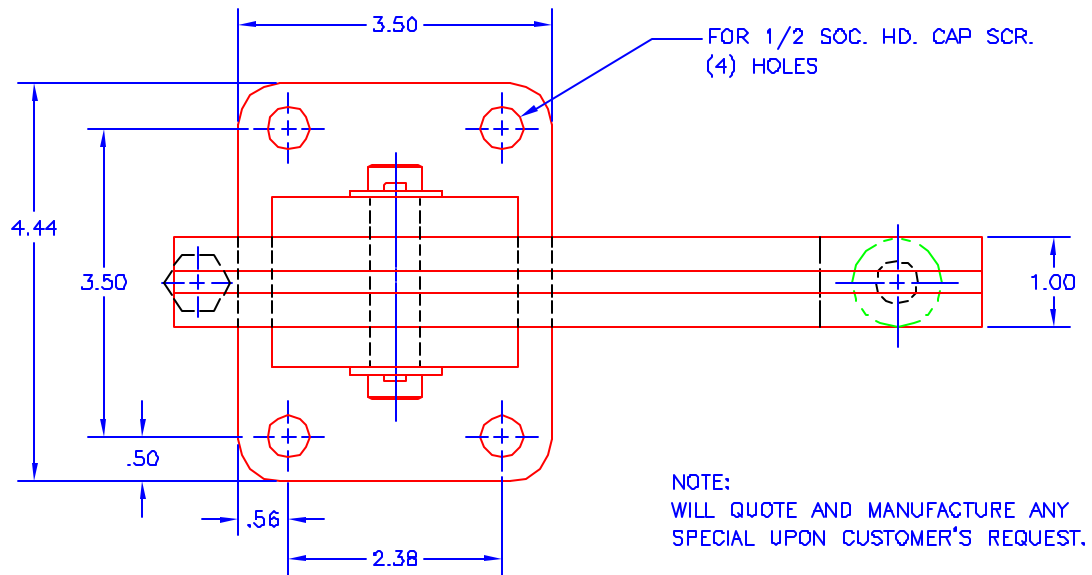
FOR USE ON LARGE MANUAL OR AUTO FEED BLANK DIES,
IT'S PURPOSE IS TO STRIP STOCK FROM LOWER STEELS AND
PERMIT EASIER FEED. THIS DETAIL ALLOWS STROKE ADJUSTMENT.



STOCK LIFTER

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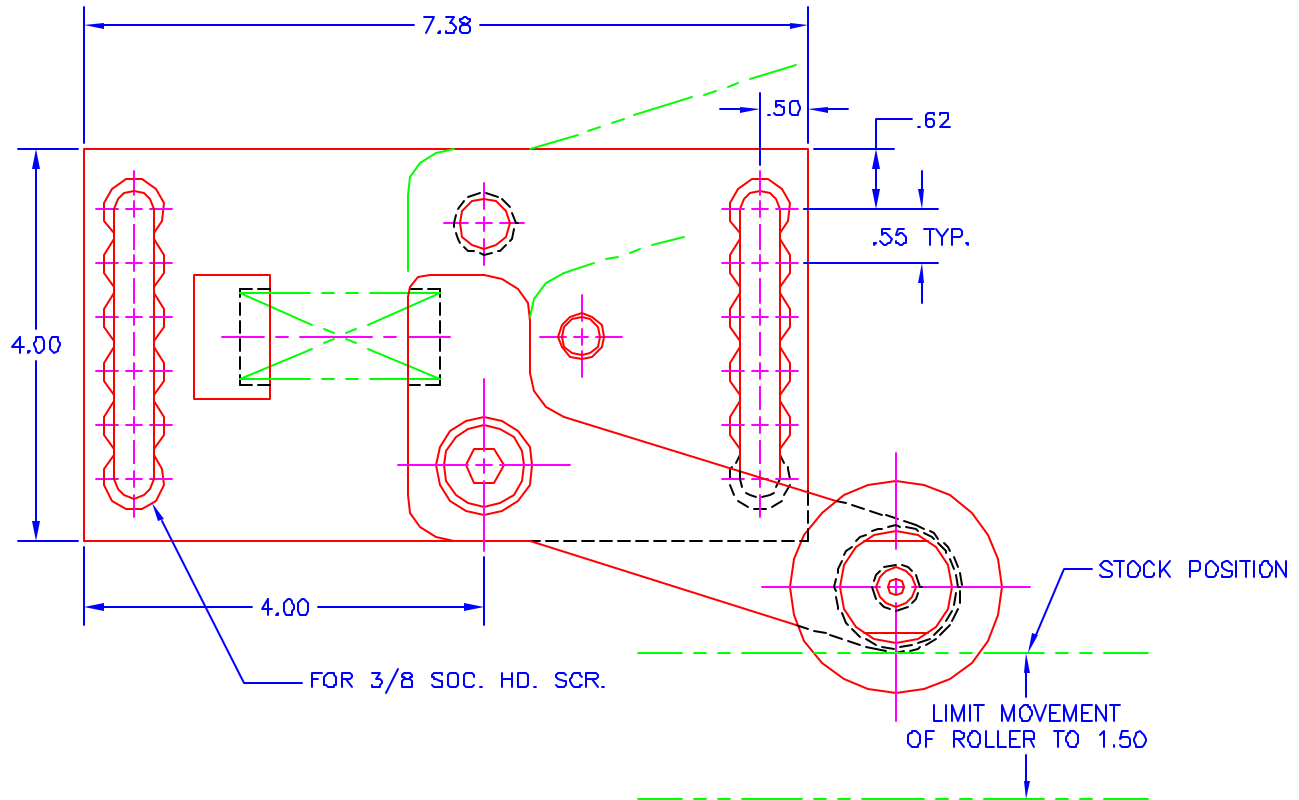
FOR USE ON LARGE MANUAL OR AUTO FEED BLANK DIES.
IT'S PURPOSE IS TO STRIP STOCK FROM LOWER STEEL AND
PERMIT EASIER FEED. THIS DETAIL ALLOWS STROKE ADJUSTMENT.



JOLICO NO.	REF. NO.	A
J-52309	M-1055 UNIT B	9.00
J-52315	M-1055 UNIT A	15.50

STOCK GUIDE COMPENSATOR

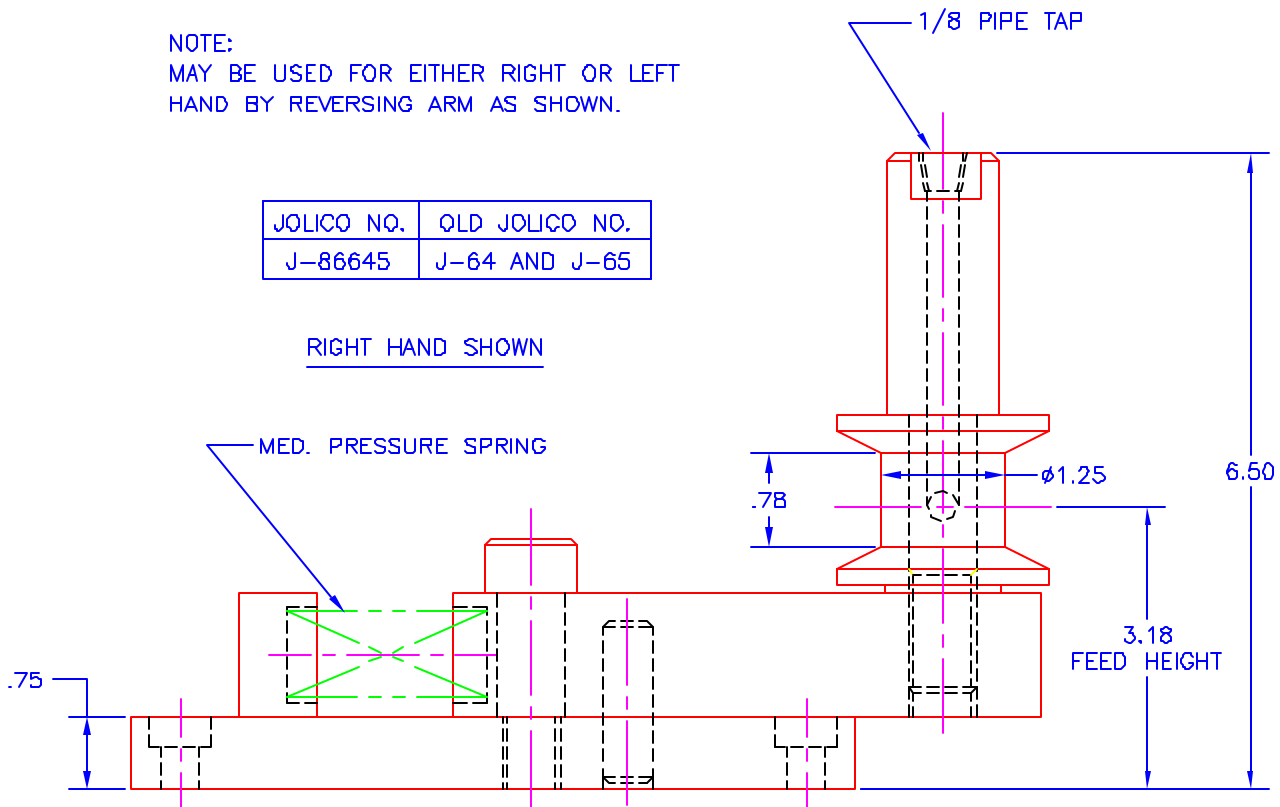
FOR USE IN COIL FEED BLANK DIES, KEEPS EDGE OF COIL
AGAINST STOP AND TAKES UP ANY INCREASE IN COIL WIDTH.



NOTE:
MAY BE USED FOR EITHER RIGHT OR LEFT
HAND BY REVERSING ARM AS SHOWN.

JOLICO NO.	OLD JOLICO NO.
J-86645	J-64 AND J-65

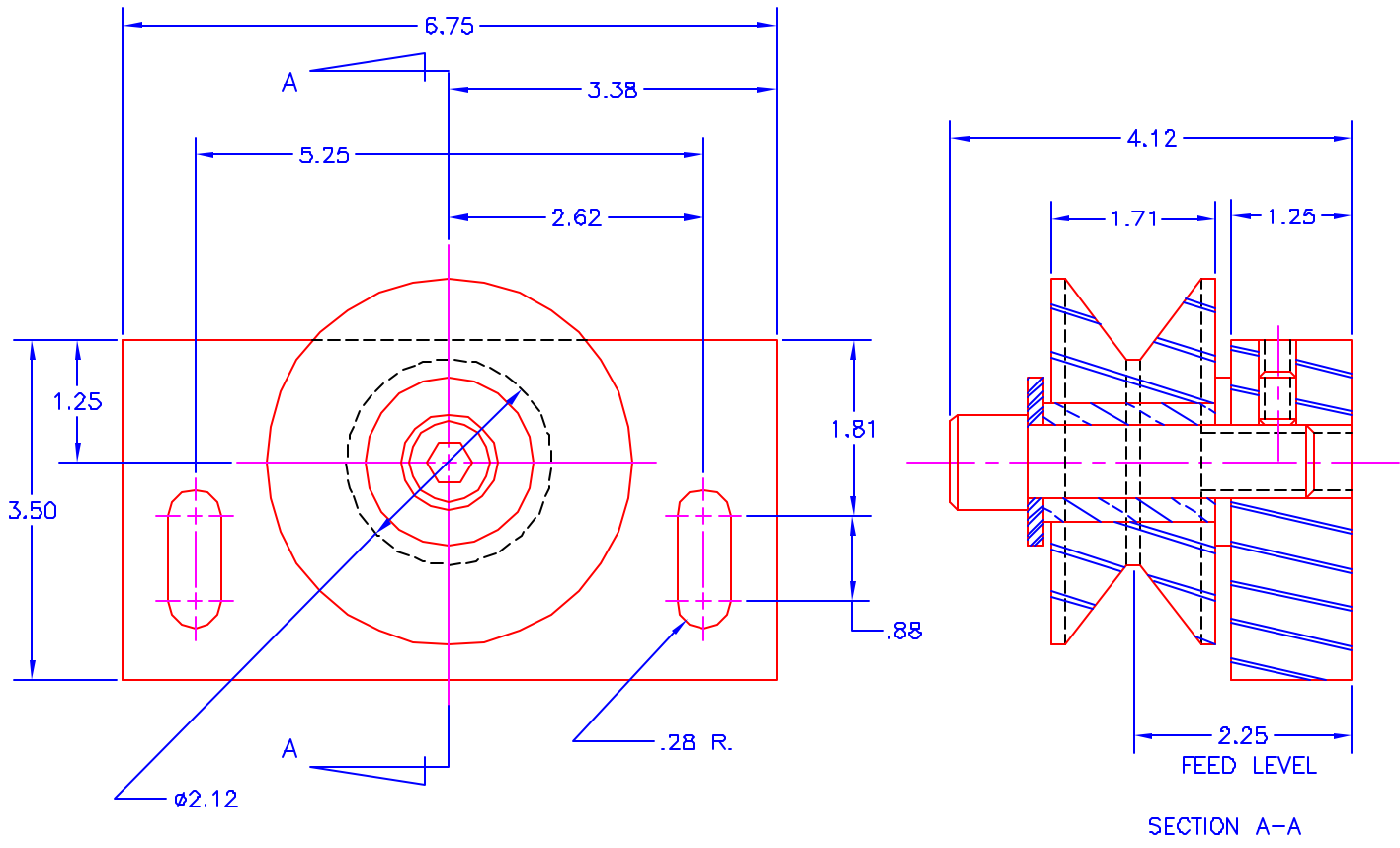
RIGHT HAND SHOWN



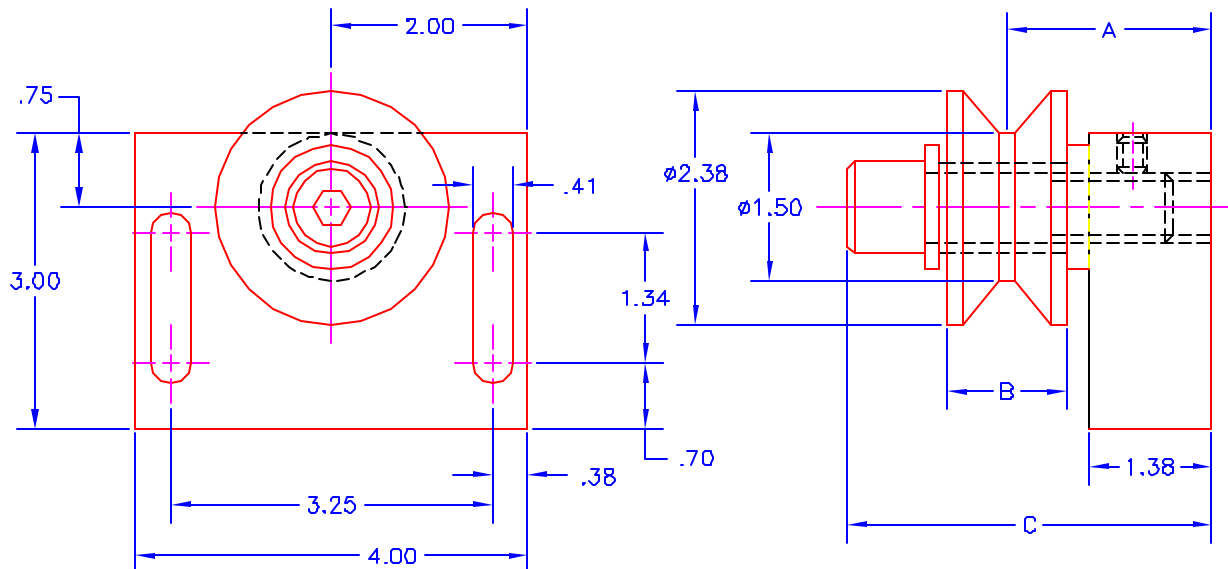
ROLLER STOCK GUIDES

GUIDES COIL INTO BLANK DIE AREA

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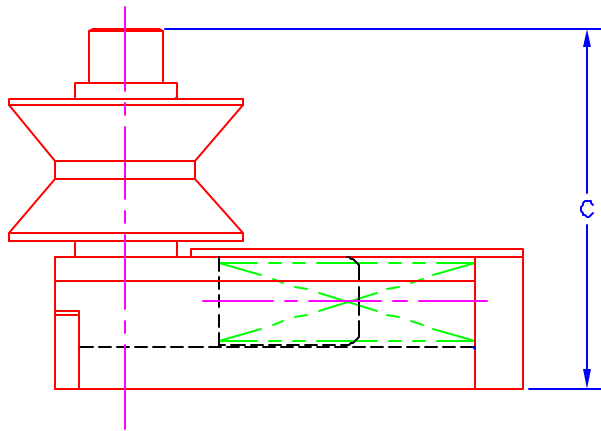
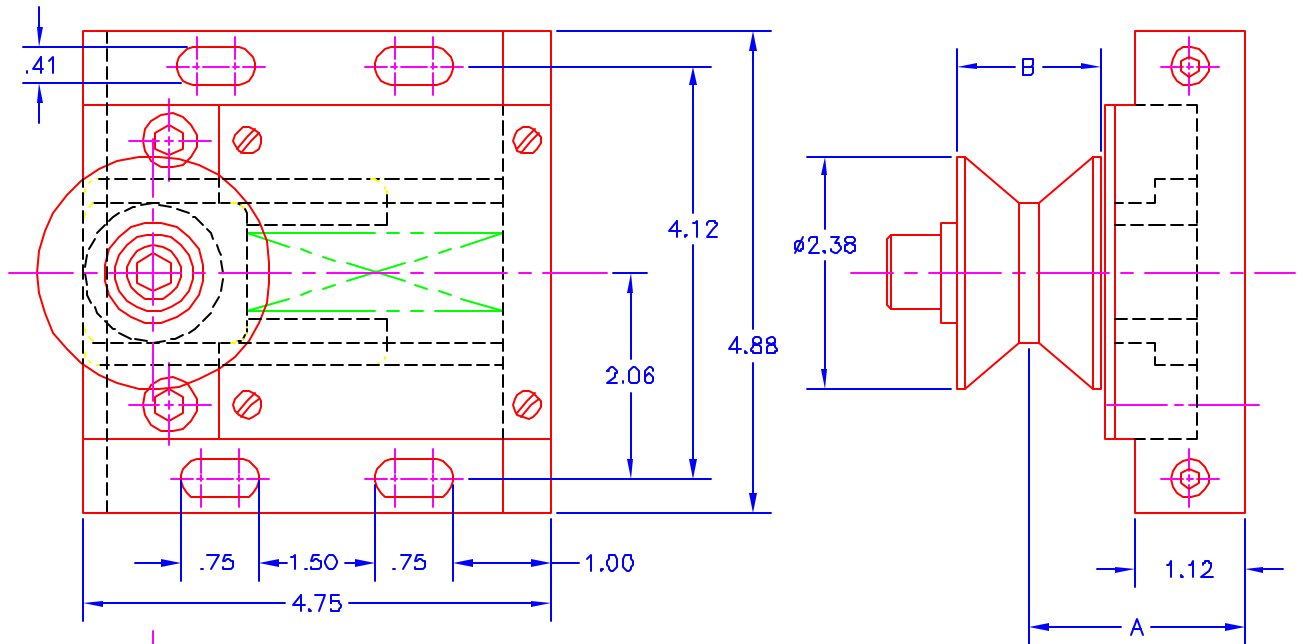
JOLCO NO.	REF. NO.
J-86085	SD-60011-2



JOLCO NO.	REF. NO.	A	B	C
J-86123	SD-60023	2.18	1.21	3.56
J-86124	—	2.44	1.71	3.88

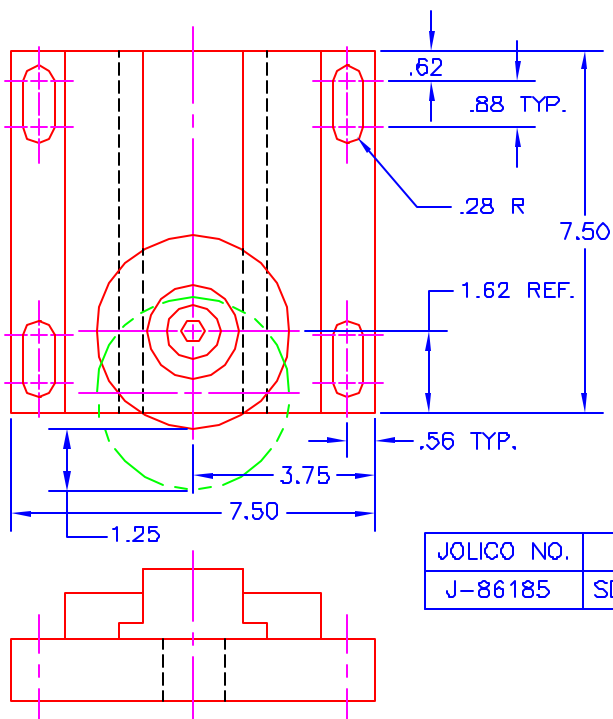
STOCK GUIDE COMPENSATOR

FOR USE IN COIL FEED BLANK DIES, KEEPS EDGE OF COIL
AGAINST STOP AND TAKES UP ANY INCREASE IN COIL WIDTH.



SPRING UNIT

JOLICO NO.	REF. NO.	A	B	C
J-86113	SD-60013	2.18	1.21	3.56
J-86114	DX3-1251	2.38	1.71	3.88

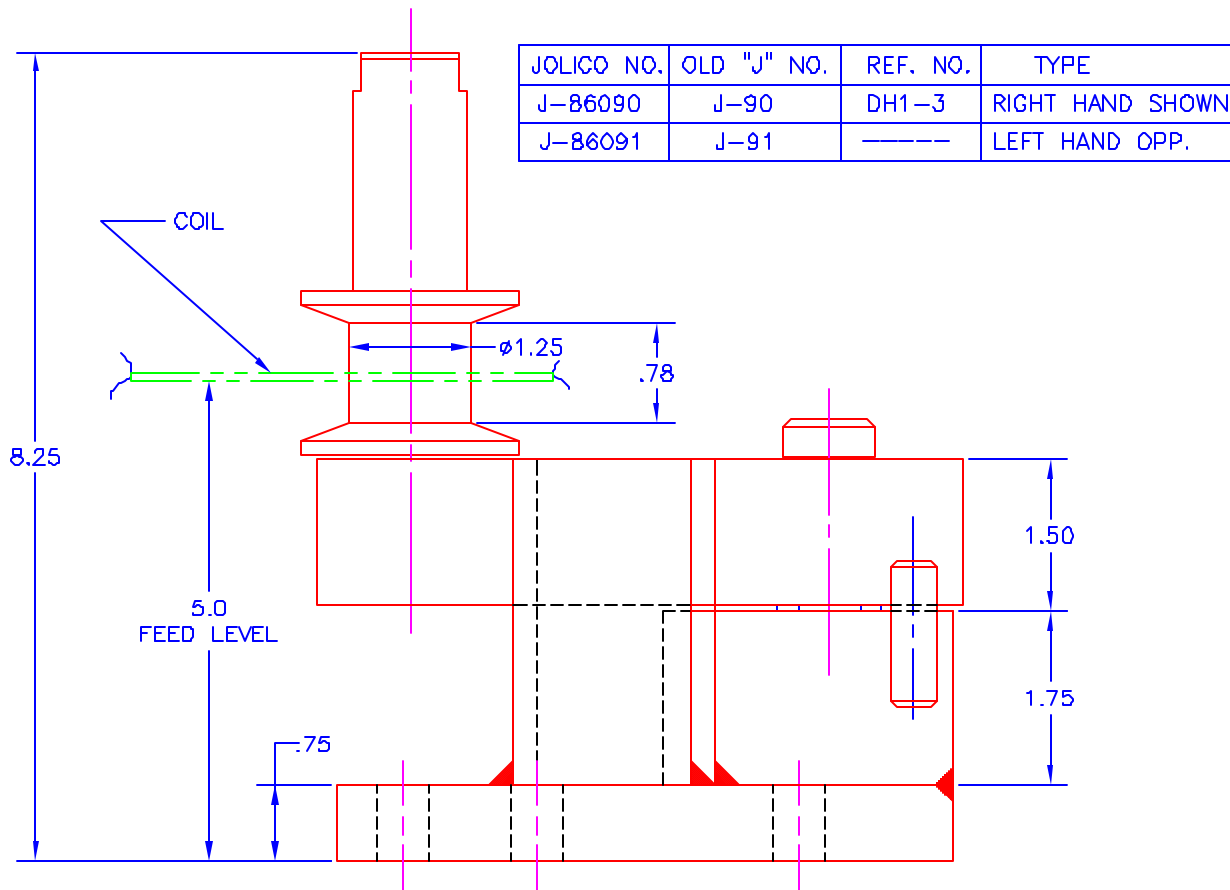
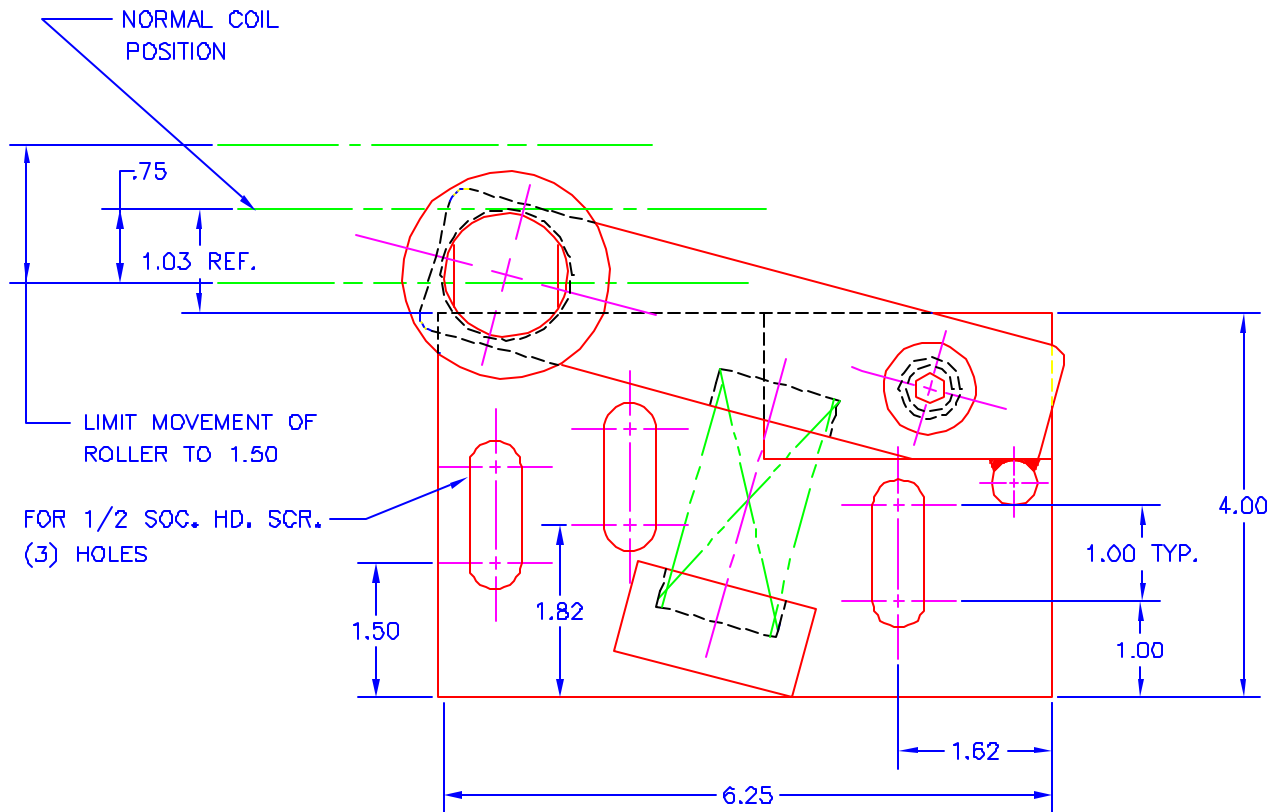


JOLICO NO.	REF. NO.
J-86185	SD-60011-1

STOCK GUIDE COMPENSATOR

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FOR USE IN COIL FEED BLANK DIES, KEEPS EDGE
OF COIL AGAINST STOP AND TAKES UP ANY INCREASE
IN COIL WIDTH.



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[illegible]

2" DIA. ROLLER FOR STOCK UP TO 12" WIDE
3" DIA. ROLLER FOR STOCK OVER 12" WIDE

FOR 1/2 SOC. HD. SCR.
(2) HOLES

.53 TYP.

3.00

1.50

2.75

1.38

11/32 DRILL
(2) HOLES

SPECIFY ROLLER
DIA.

4.00

2.75

.62

.38

1.00

2.12

AIR VENTS

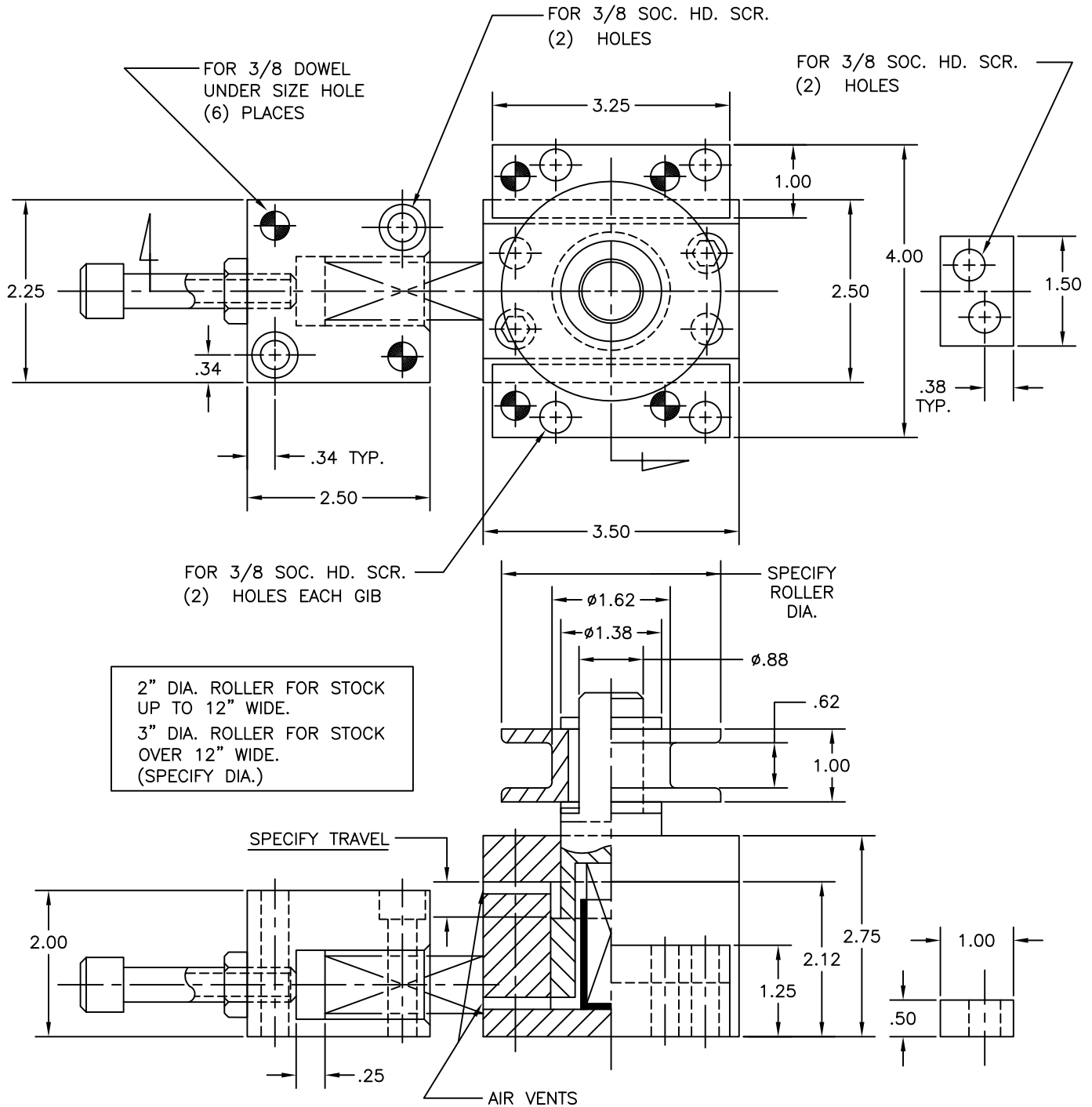
SPECIFY TRAVEL

SECTION A-A

JOLICO NO.	REF. NO.
J-86724	TYPE "B"

ROLLER STOCK GUIDE

THIS ITEM COMPENSATES FOR VARYING STOCK WIDTH,
AS WELL AS FOLLOWING THE UP AND DOWN MOVEMENT
OF THE STOCK IN A COMPOUND BLANK AND PIERCE DIE.



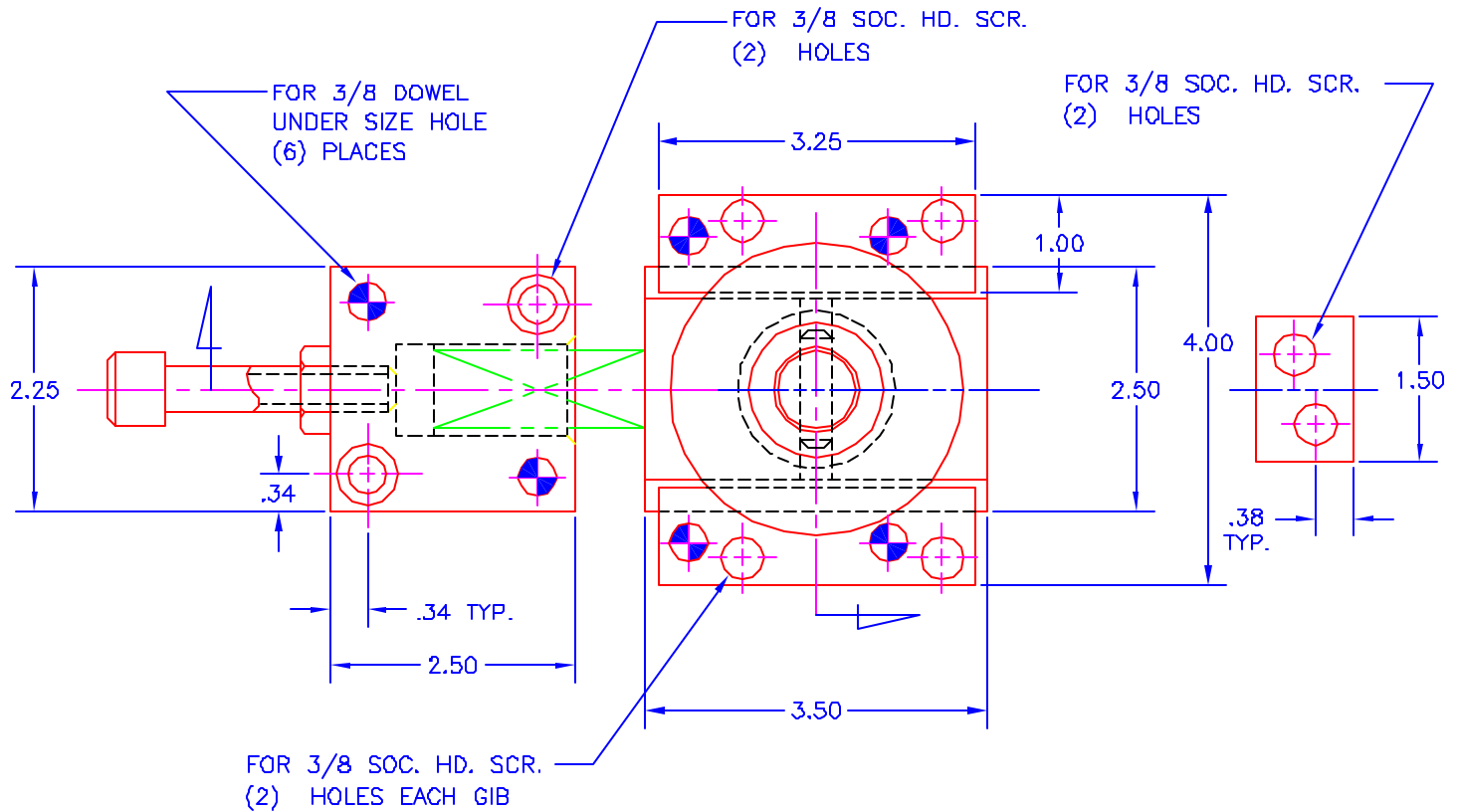
NOTE
SPRINGS AND SPRING CAGE NOT FURNISHED WITH ASSEMBLY.

JOLICO NO.	REF. NO.
J-86723	TYPE "D"

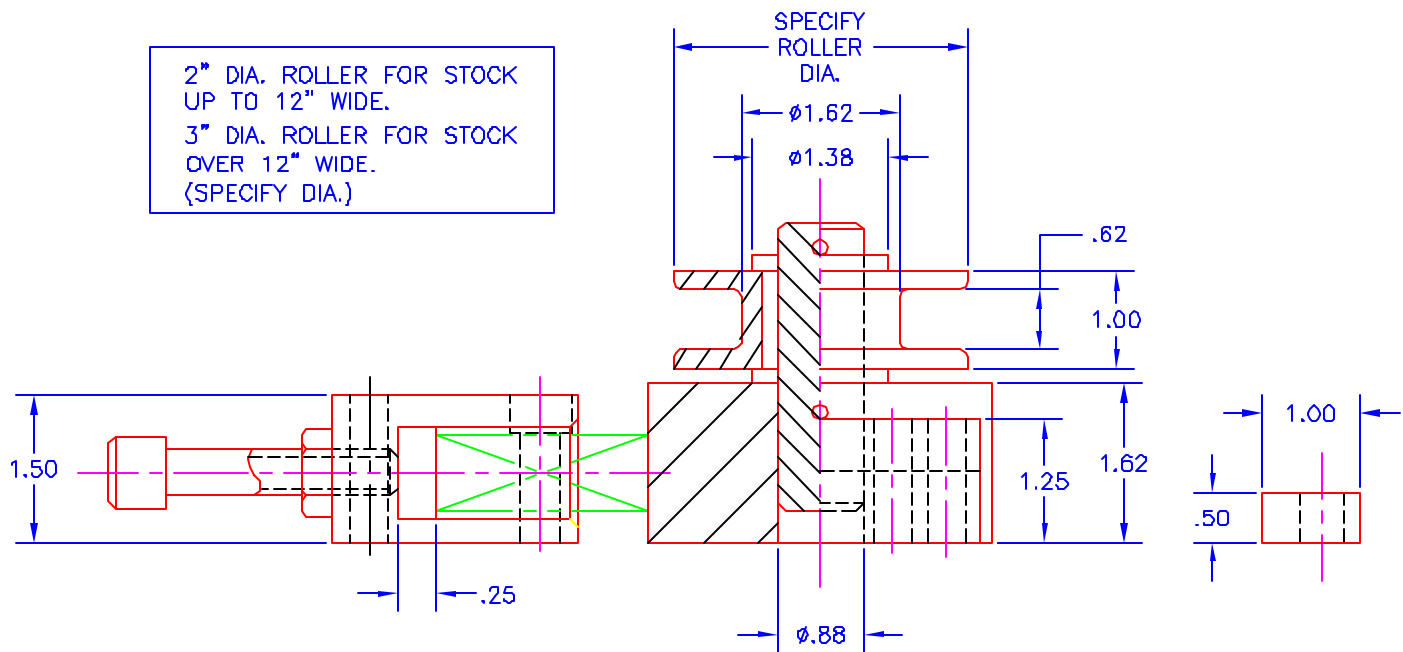
ROLLER STOCK GUIDE

PRINTED COPY IS
UNCONTROLLED

THIS ITEM COMPENSATES FOR VARYING STOCK
WIDTHS IN A DROP THRU BLANK DIE.

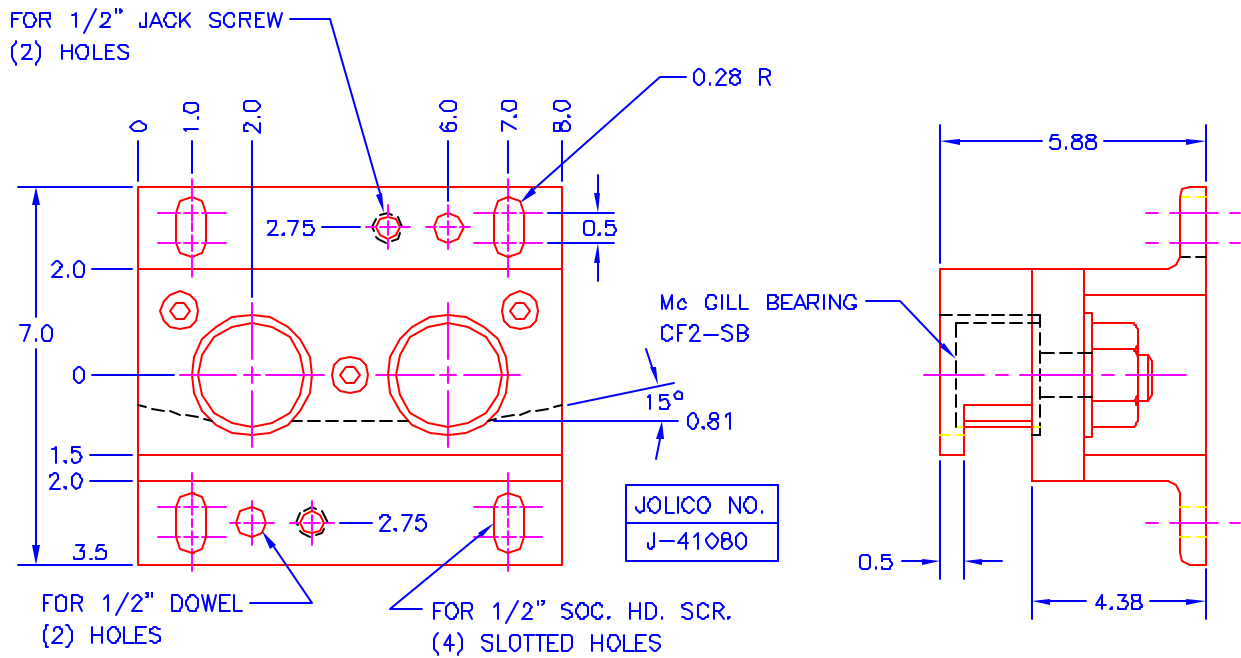


2" DIA. ROLLER FOR STOCK
UP TO 12" WIDE.
3" DIA. ROLLER FOR STOCK
OVER 12" WIDE.
(SPECIFY DIA.)



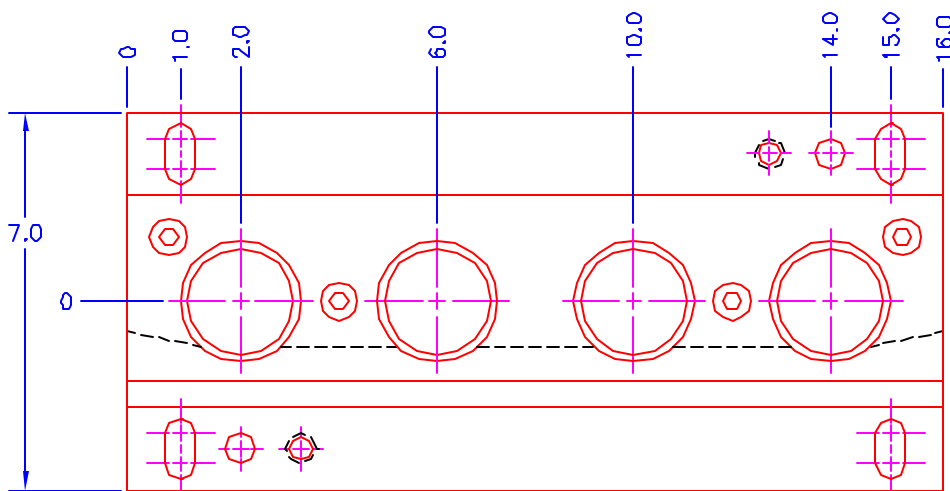
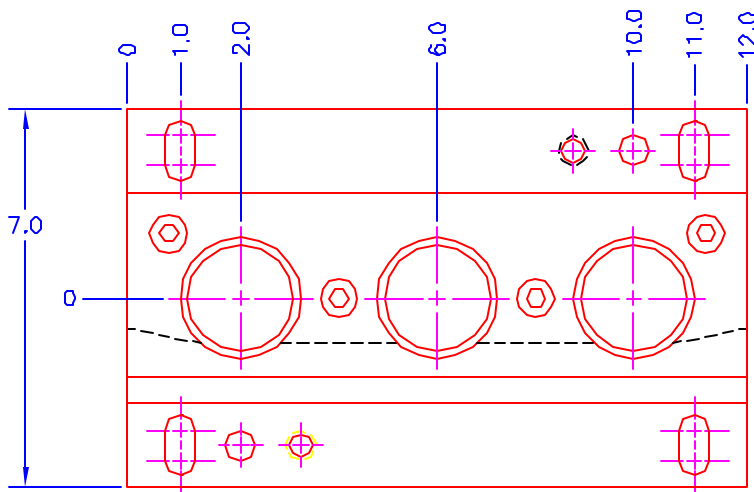
JOLICO NO.	REF. NO.
J-86722	TYPE "C"

ROLLER STOCK GUIDE ASSEMBLY



NOTE:
FOR STOCK GUIDE WITHOUT
MOUNTING HOLES ADD THE
SUFFIX (N) TO THE ORDERING
NUMBER. EXAMPLE J-41081-N

JOLICO NO.
J-41081

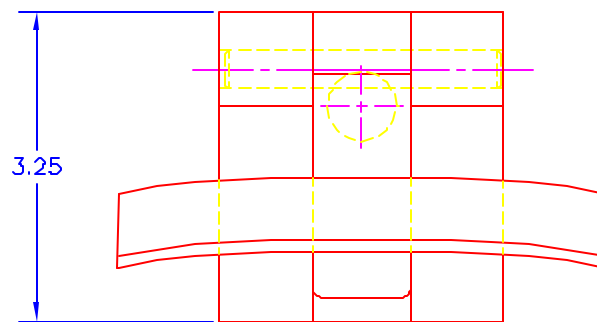
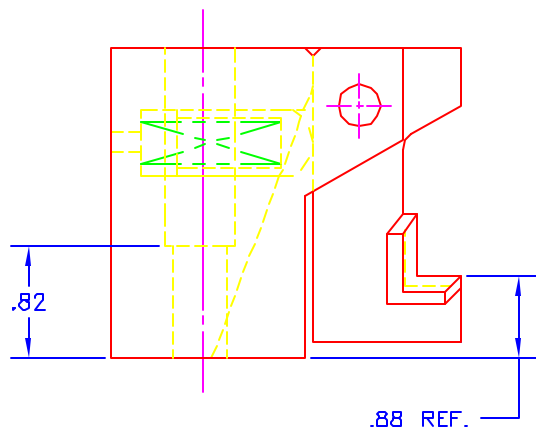
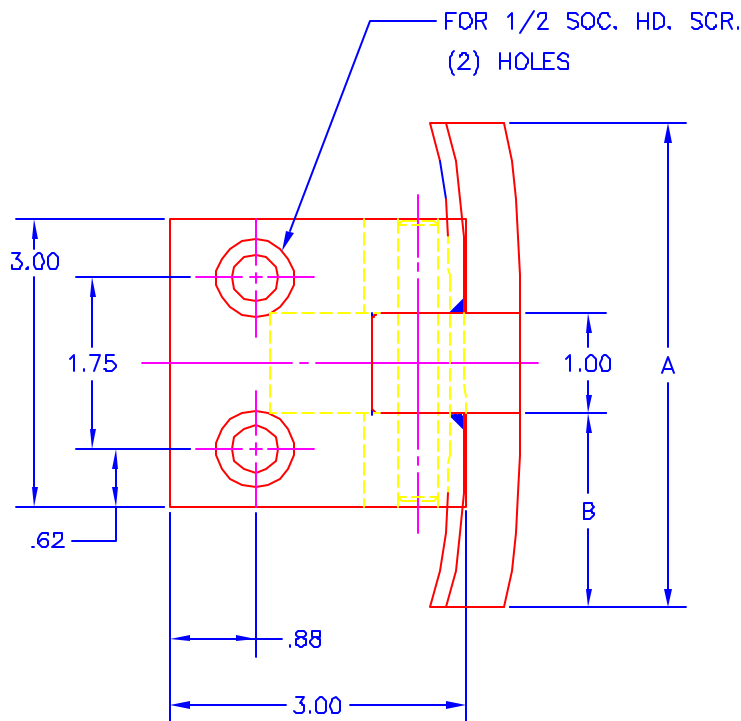


JOLICO NO.
J-41082

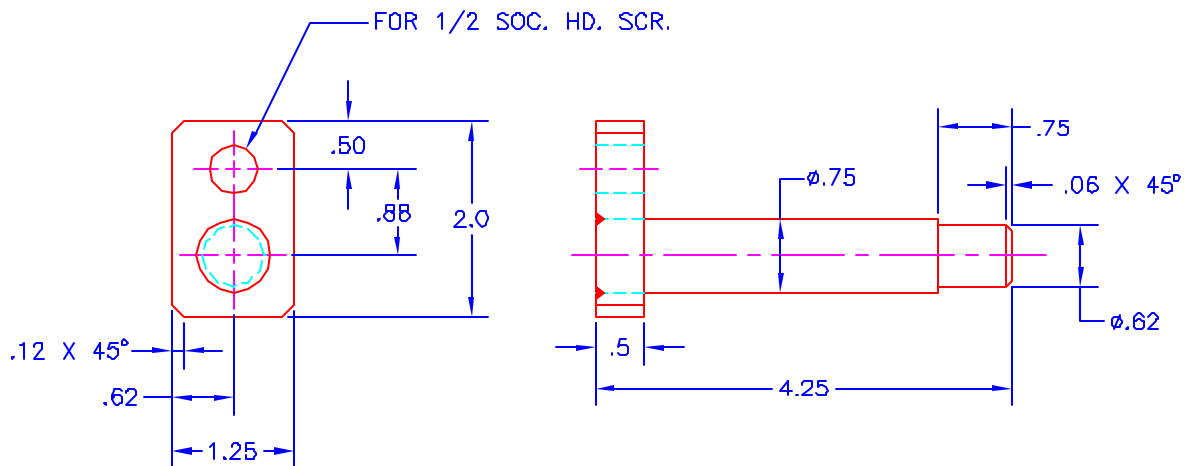
LAST BLANK SUPPORT

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THIS DETAIL IS USED ON CUT OFF DIES TO SUPPORT
THE BLANK, ONE SUPPORT EACH SIDE OF COIL. SUPPORT
ARMS SWING AWAY FROM SIDE OF COIL TO ALLOW BLANK
TO SHED AWAY FROM DIE.



JOLICO NO.	OLD "J" NO.	REF. NO.	REF. NO.	A	B
J-59801	J-9801	DH3-0101	BS-5	5.0	2.0
J-59802	J-9802	DH3-0102	BS-10	10.0	4.5
J-59803	J-9803	DH3-0102	BS-15	15.0	7.0



RETAINER PIN

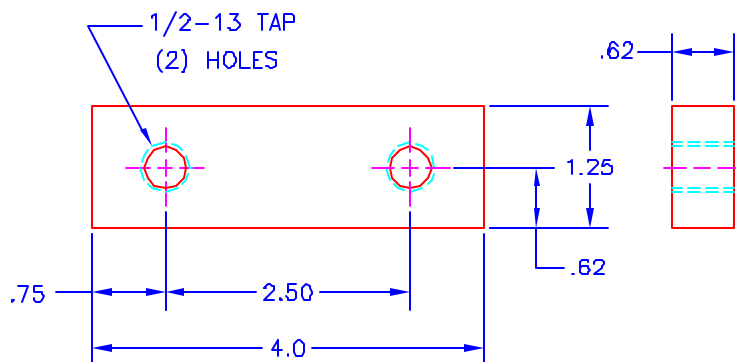
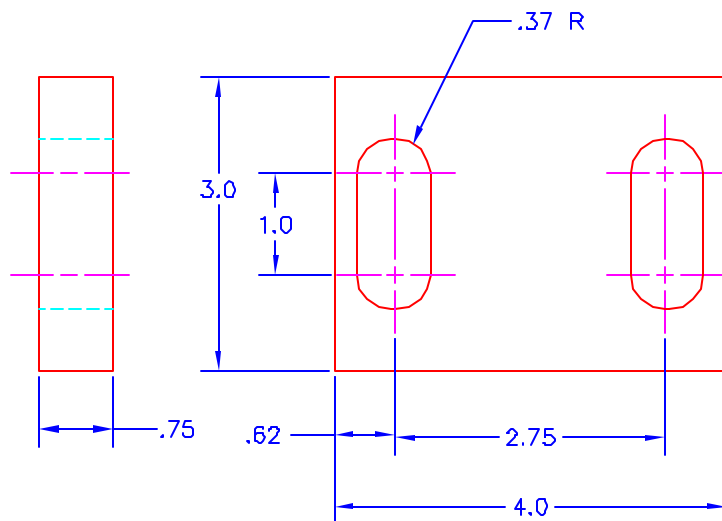
THIS PIN USED ON DRAW DIES THAT HAVE A 10° OR GREATER BINDER SURFACE. ON THESE TYPES OF SURFACES A SPRING LOADED PIN IS USED TO STRIP THE PART FROM THE BLANKHOLDER AND THIS RETAINER PIN IS USED WITH THESE STRIPPERS.

JOLICO NO.	REF. NO.
J-61901	DX1-6-1201

SOLID FRONT AND WIPER GAGE BASE

THIS BASE PLATE IS USED ON DRAW DIES. UPON THIS BASE PLATE IS WELDED A WIPER TYPE GAGE BLOCK.

JOLICO NO.	REF. NO.
J-41631	DX1-6-1301



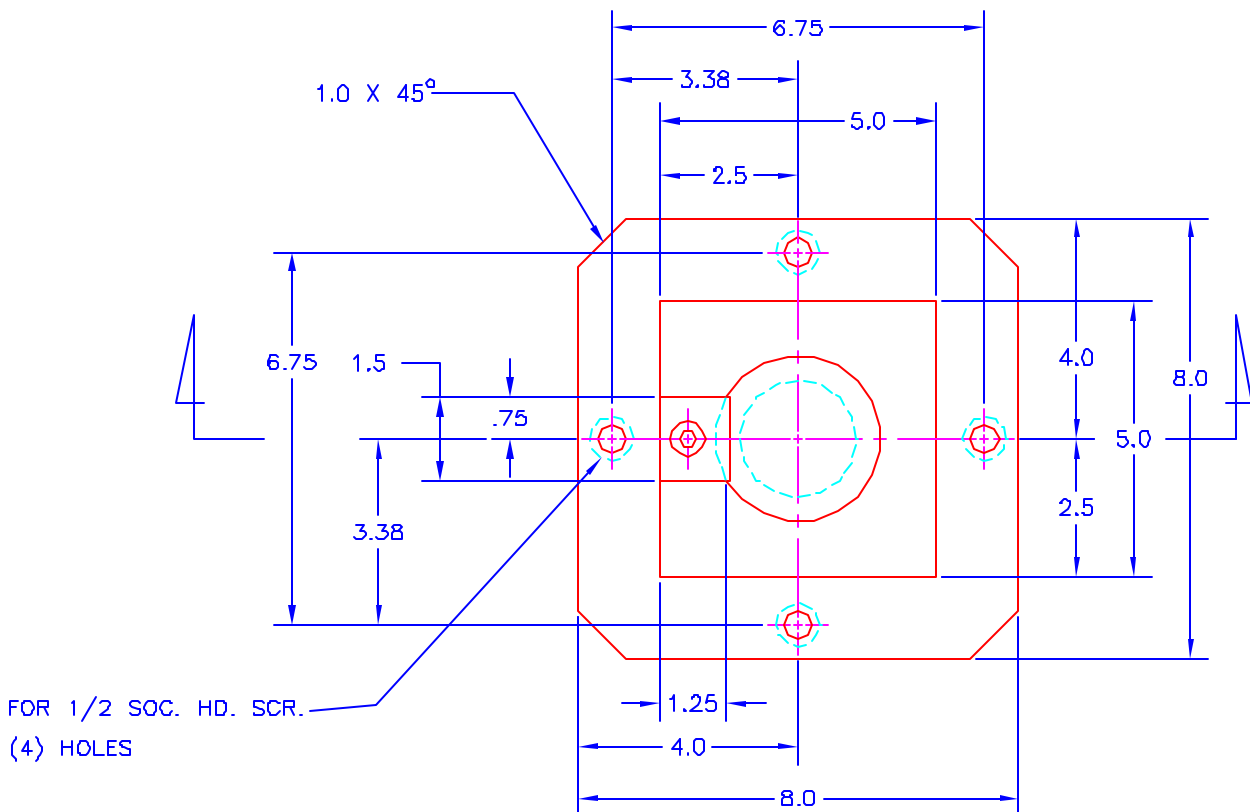
SIDE GUIDE BLANK STOP

THIS DETAIL IS USED AS A SPACER

JOLICO NO.	REF. NO.
J-28261	DX1-6-1401

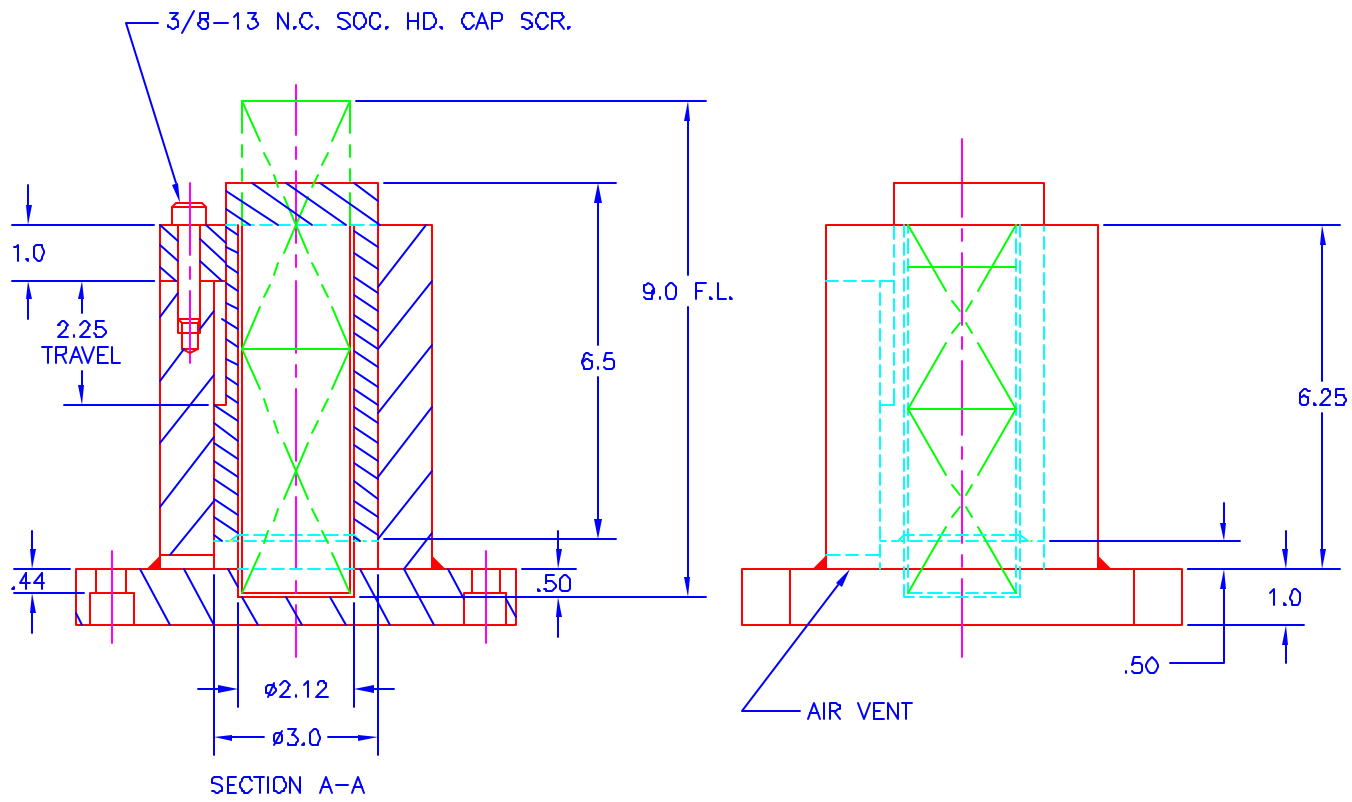
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JOLICO NO.	REF. NO.
J-52101	DX18-7-0101



FOR 1/2 SOC. HD. SCR.
(4) HOLES

- 3/8-13 N.C. SOC. HD. CAP SCR.



SHEET WIPERS

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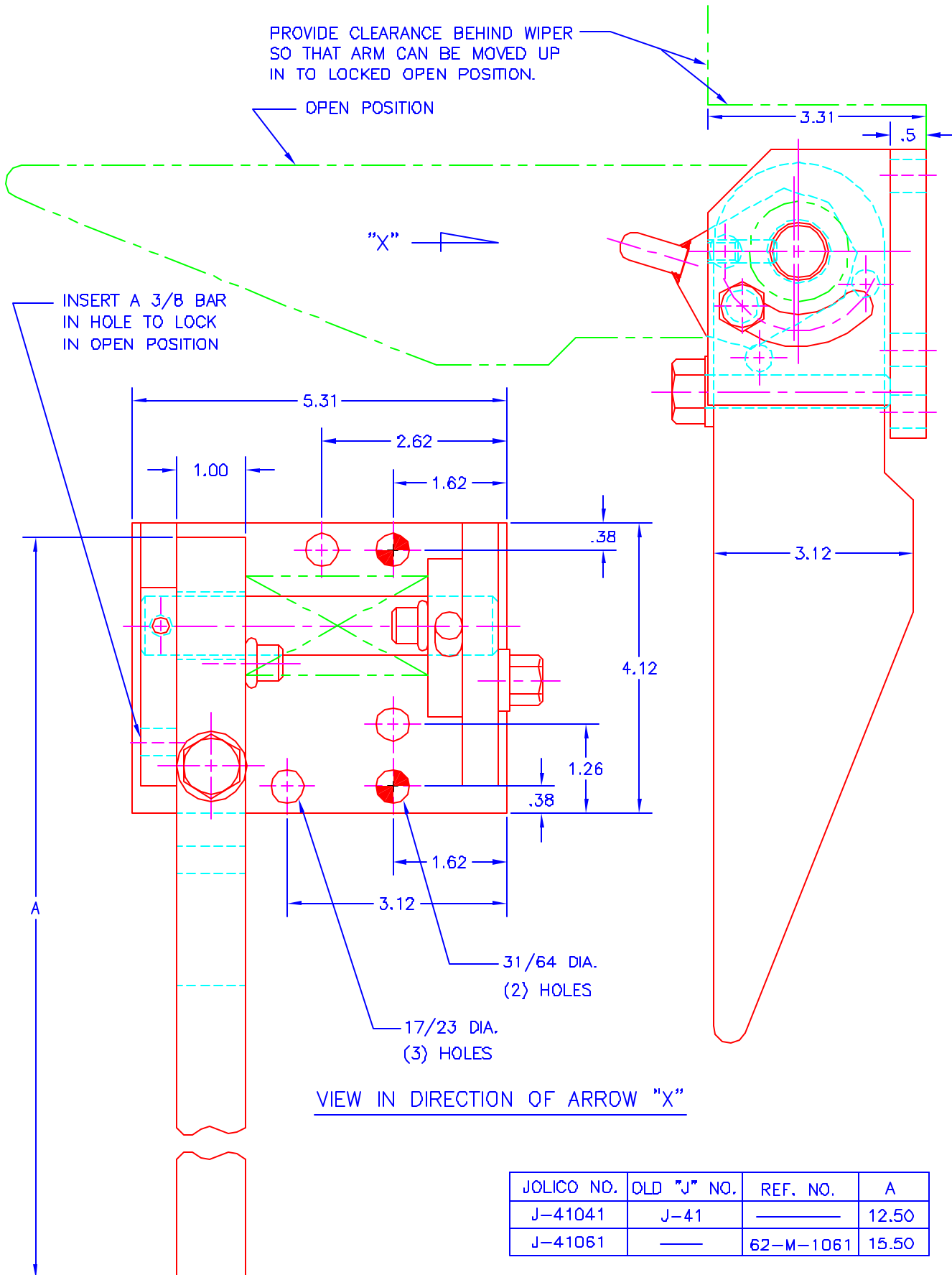
THIS ITEM IS USED FOR WIPING BLANKS
INTO SOLID GAGES AT OPPOSITE SIDE

PROVIDE CLEARANCE BEHIND WIPER
SO THAT ARM CAN BE MOVED UP
IN TO LOCKED OPEN POSITION.

OPEN POSITION

"X"

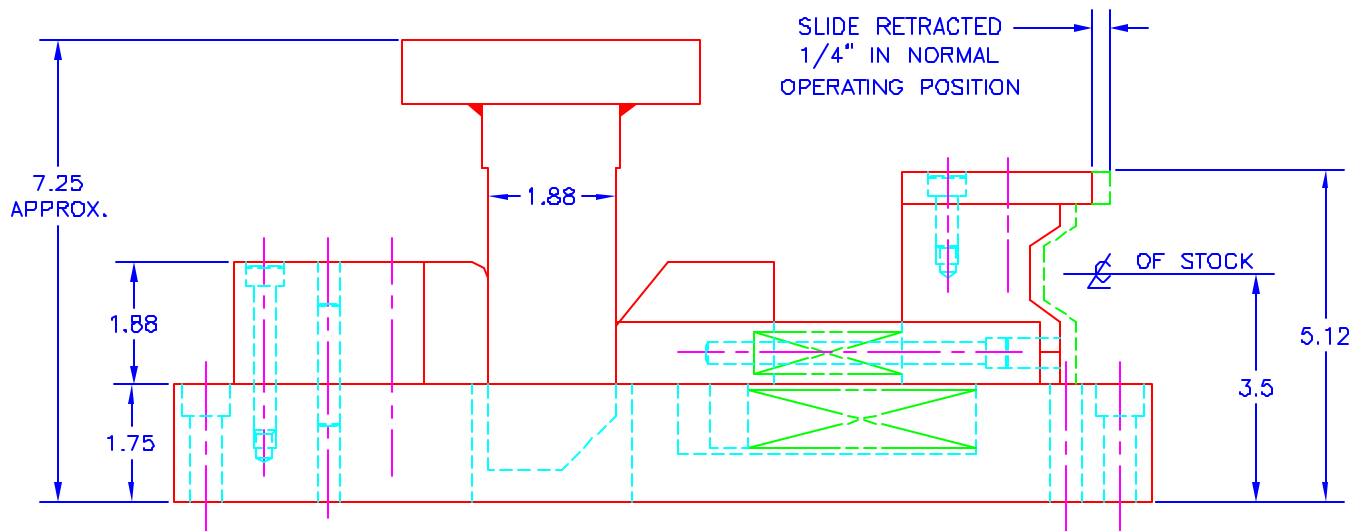
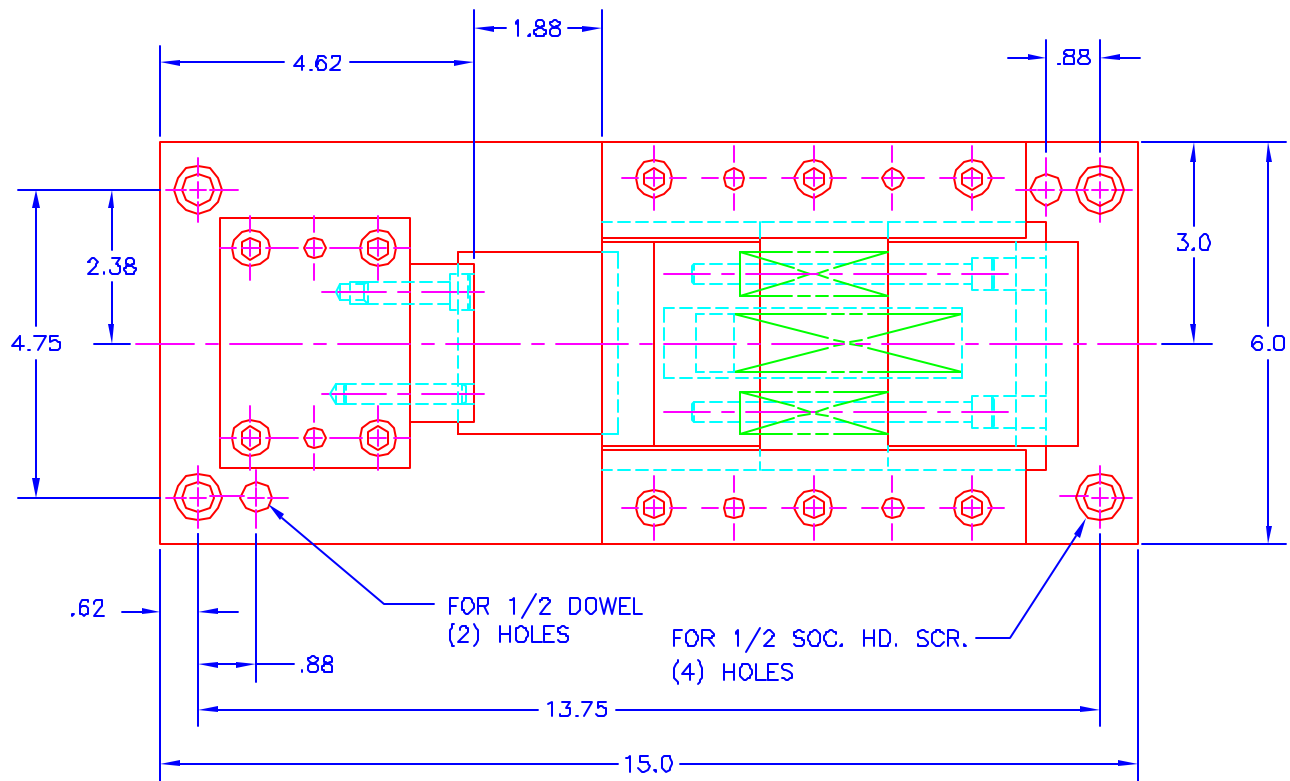
INSERT A 3/8 BAR
IN HOLE TO LOCK
IN OPEN POSITION



JOLICO NO.	OLD "J" NO.	REF. NO.	A
J-41041	J-41	—	12.50
J-41061	—	62-M-1061	15.50

CAM STOCK PUSHER

THIS UNIT IS USED FOR PUSHING A BLANK
INTO SOLID GAGES OPPOSITE IT.

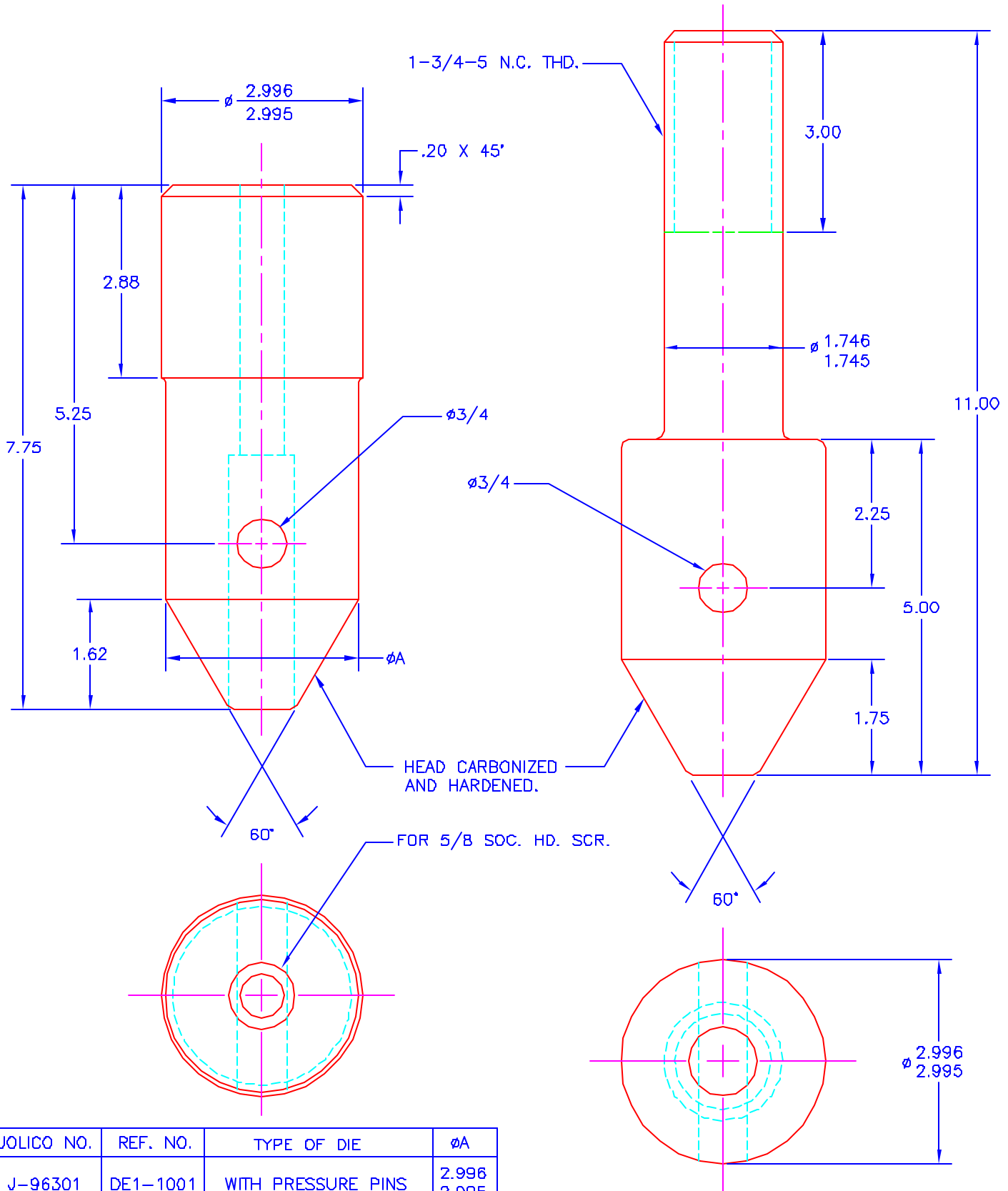


JOLICO NO.	REF. NO.
J-86012	SD-60012

DIE LOCATING PINS

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THESE PINS ARE USED IN SLIDING BOLSTER PRESSES.
THEY ARE INSERTED IN THE BOLSTER TO LOCATE
THE DIE RELATIVE TO THE PRESS.



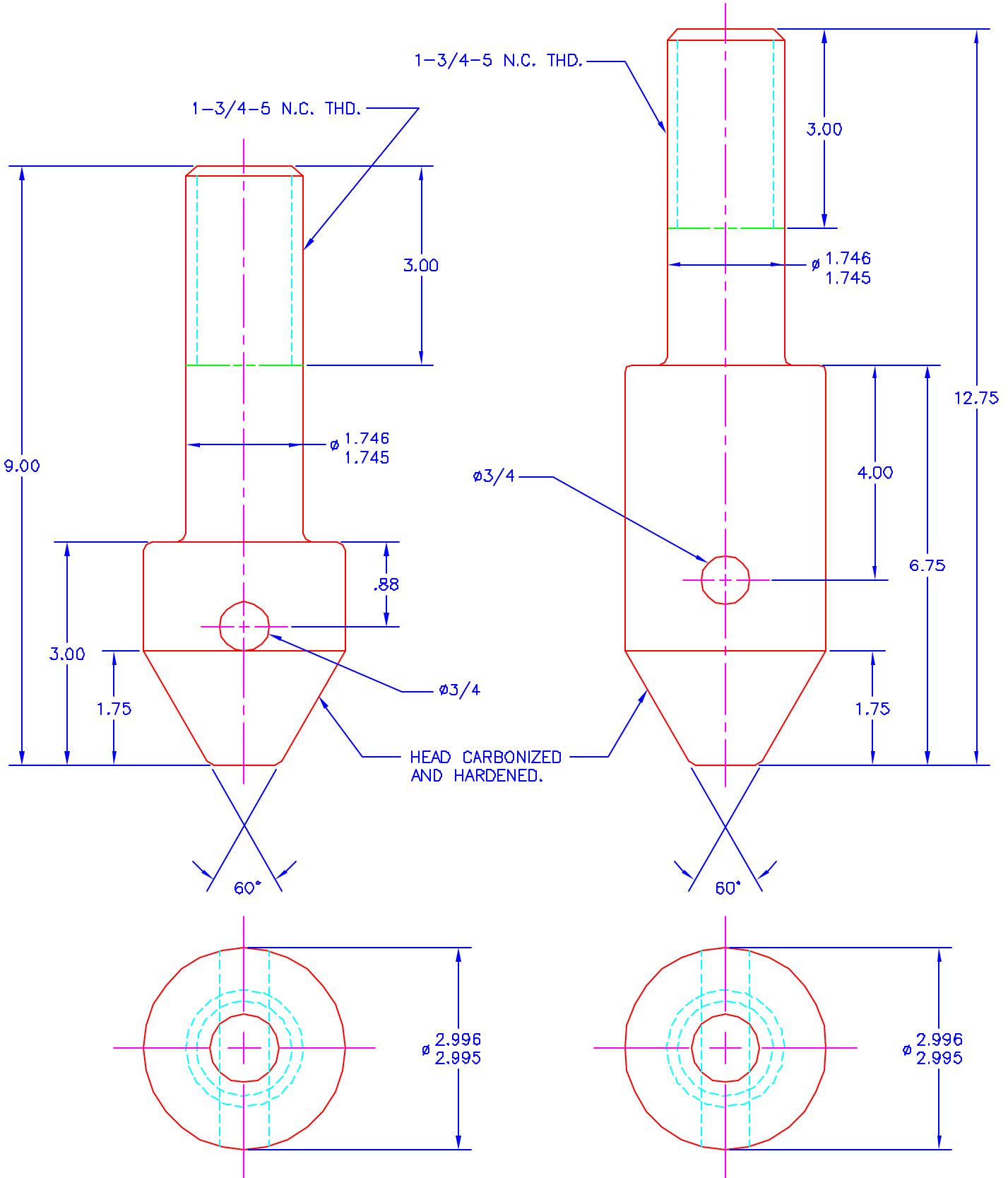
JOLICO NO.	REF. NO.	TYPE OF DIE	ϕ A
J-96301	DE1-1001	WITH PRESSURE PINS	2.996 2.995
J-96303	DE1-1003	WITHOUT PRESSURE PINS	2.966 2.965

JOLICO NO.	REF. NO.
J-96302	DE1-1002

DIE LOCATING PINS

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PIN NUMBER J-96304 IS USED TO LOCATE THE
BLANKHOLDER RELATIVE TO THE BULL RING, AND J-96305 IS USED
TO LOCATE THE INNER RAM RELATIVE TO THE INNER RAM PLATE



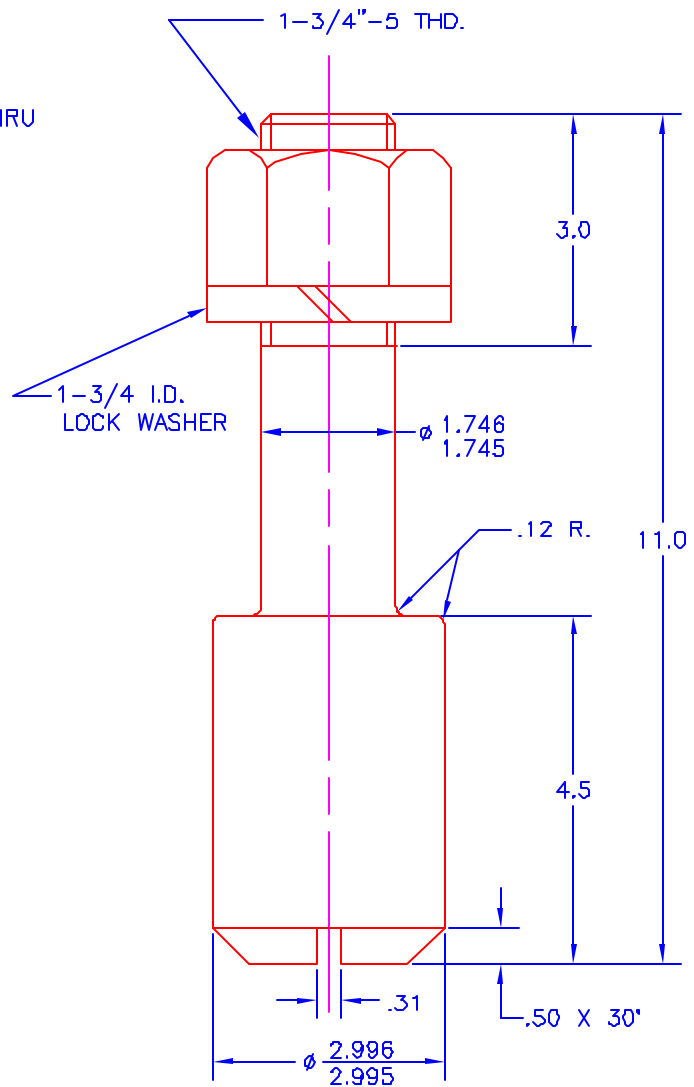
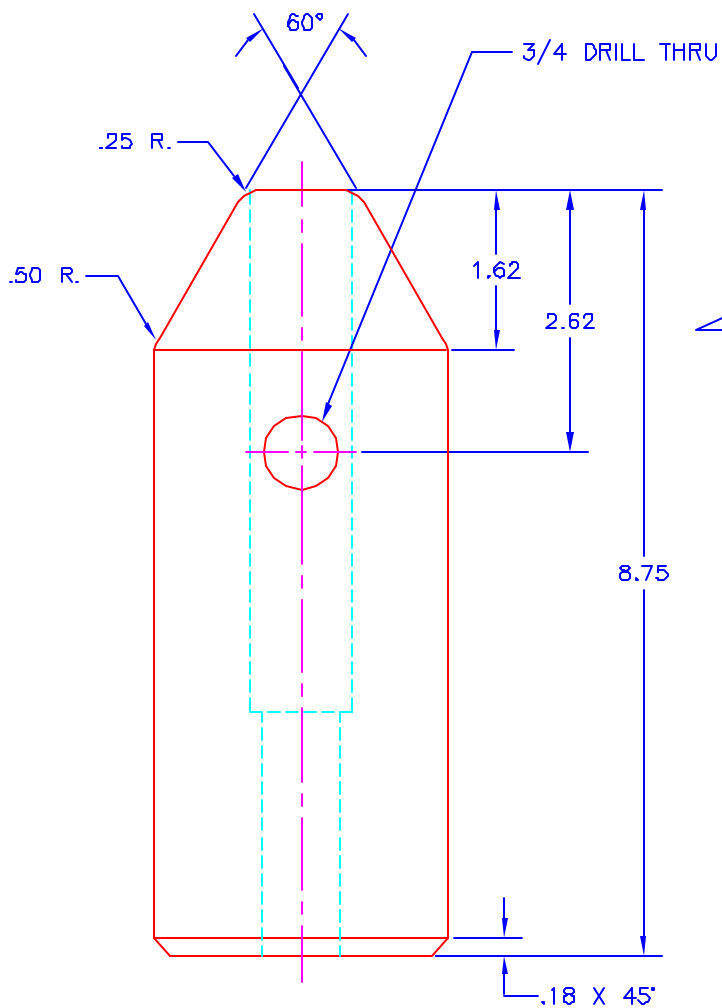
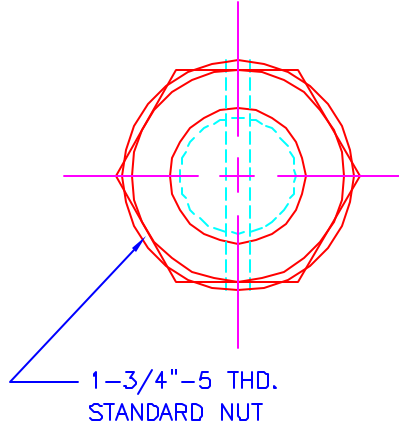
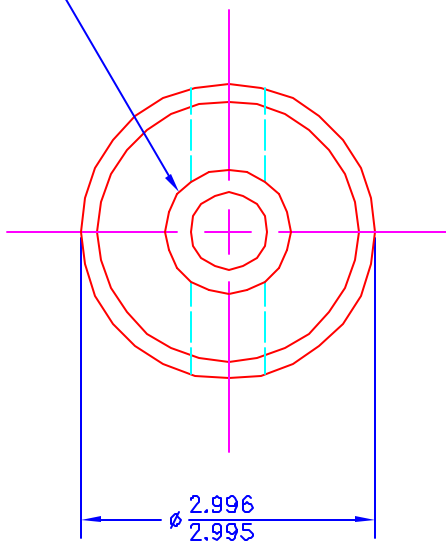
JOLICO NO.	REF. NO.
J-96305	DE1-0902

JOLICO NO.	REF. NO.
J-96304	DE1-0901

LOCATING PINS

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FOR 5/8 SOC. HD. SCR.



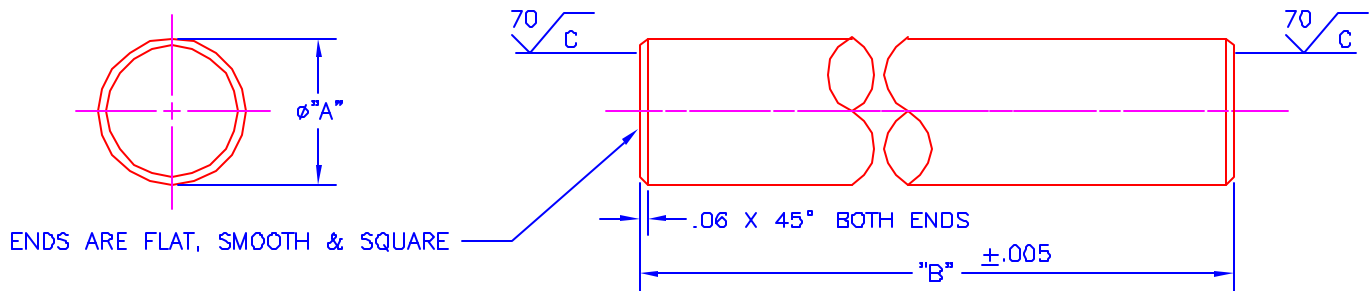
JOLICO NO.	FORD REF. NO.
J-96308	DX15-22-0302

JOLICO NO.	FORD REF. NO.
J-96307	DX15-22-0301

PRESSURE PIN

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THESE PINS ARE FOR USE IN PRESSES EQUIPPED
WITH AIR CUSHIONS. THE STEPPED PINS ARE FOR
USE IN INTEGRATED BOLSTER, CARRIAGE TYPE PRESSES.

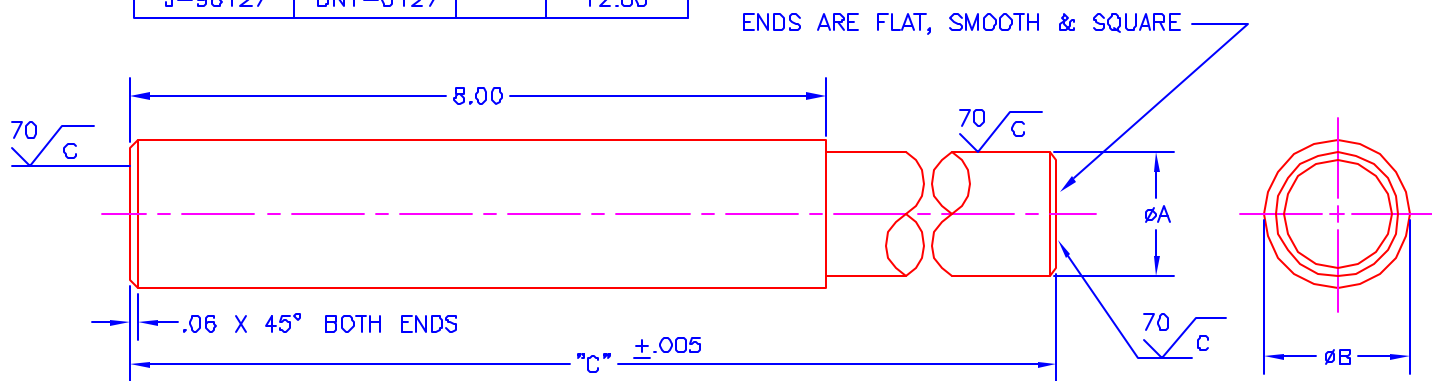


FOR O. B. I. PRESSES

JOLICO NO.	REF. NO.	A	B LENGTH
J-96115	DN1-0115	1.00	5.50
J-96116	DN1-0116		6.00
J-96117	DN1-0117		6.50
J-96118	DN1-0118		7.00
J-96119	DN1-0119		7.50
J-96120	DN1-0120		8.00
J-96121	DN1-0121		8.50
J-96122	DN1-0122		9.00
J-96123	DN1-0123		9.75
J-96124	DN1-0124		10.25
J-96125	DN1-0125		11.00
J-96126	DN1-0126		11.50
J-96127	DN1-0127		12.00

FOR STRAIGHT SIDE PRESSES

JOLICO NO.	REF. NO.	A	B LENGTH
J-96101	DN1-0101	1.50	9.75
J-96102	DN1-0102		10.75
J-96103	DN1-0103		11.25
J-96104	DN1-0104		14.25
J-96105	DN1-0105		18.25
J-96106	DN1-0106		12.25
J-96107	DN1-0107		13.25
J-96108	DN1-0108		15.25
J-96109	DN1-0109		16.25
J-96110	DN1-0110		17.25



FOR SLIDING BOLSTER
STRAIGHT SIDE PRESSES

JOLICO NO.	REF. NO.	A	B	C LENGTH
J-96205	DN1-0205	1.25	1.50	13.75
J-96206	DN1-0206			14.25
J-96207	DN1-0207			14.75
J-96208	DN1-0208			15.75
J-96209	DN1-0209			16.75

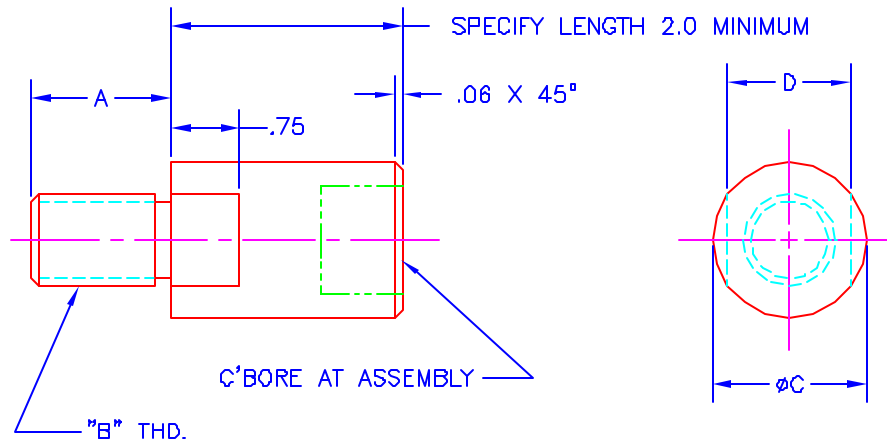
FOR SLIDING BOLSTER
TRIPLE ACTION PRESSES

JOLICO NO.	REF. NO.	A	B	C LENGTH
J-96215	DN1-0215	2.12	2.50	13.75
J-96216	DN1-0216			14.25
J-96217	DN1-0217			14.75
J-96218	DN1-0218			15.75
J-96219	DN1-0219			16.75

NOTE:
WILL QUOTE AND MANUFACTURE ANY SPECIALS UPON CUSTOMER'S REQUEST.

PRESSURE PIN EXTENSIONS

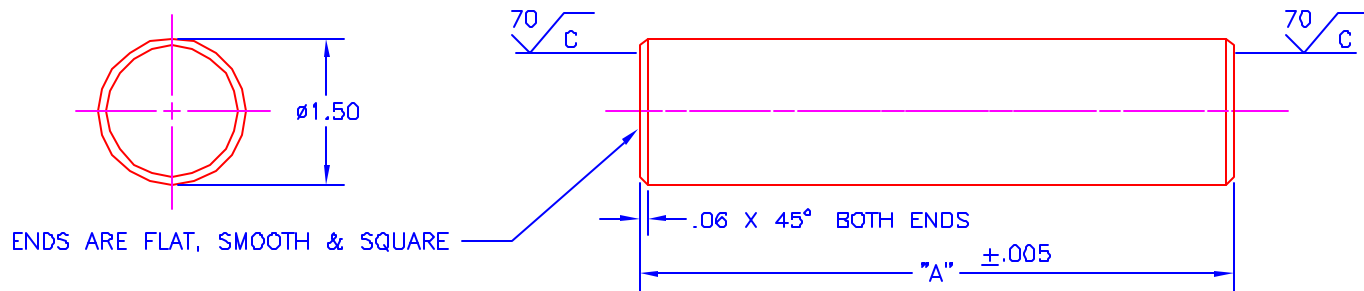
THESE DETAILS ARE USED TO EXTEND THE LENGTH
OF AIR PINS. THESE EXTENSIONS ARE SCREWED
INTO DIE AIR PAD.



JOLICO NO.	REF. NO.	A	B	C	D	TYPE OF PRESSES
J-96713	DX2-16-0601	1.50	1-8	1.5	1.25	INCLINABLE
J-96714	DX2-16-0602	2.25	1-1/2-6	2.0	1.75	STRAIGHT SIDE & DOUBLE ACTION
J-96715	DX2-16-0603	3.00	2-4.5	3.0	2.75	TRIPLE ACTION

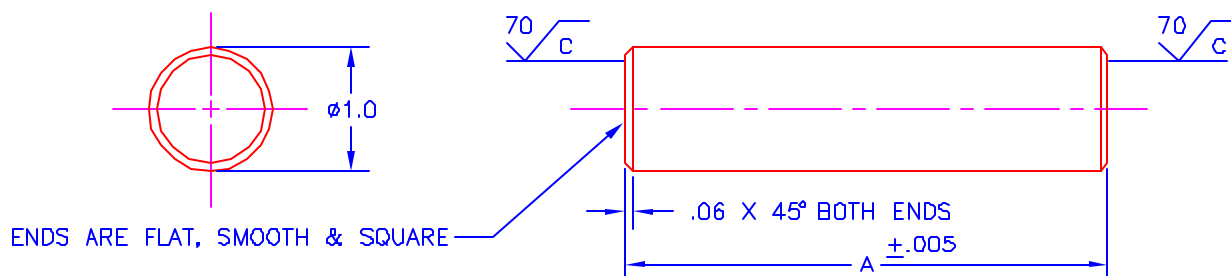
PRESSURE PIN FOR STRAIGHT SIDE AND O.B.I. PRESSES

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JOLICO NO.	A LENGTH
J-96160	11.00
J-96161	11.50
J-96162	11.75
J-96163	12.00
J-96164	12.50
J-96165	12.75

JOLICO NO.	A LENGTH
J-96166	13.00
J-96167	13.50
J-96168	13.75
J-96169	14.00
J-96170	14.50
J-96171	14.75

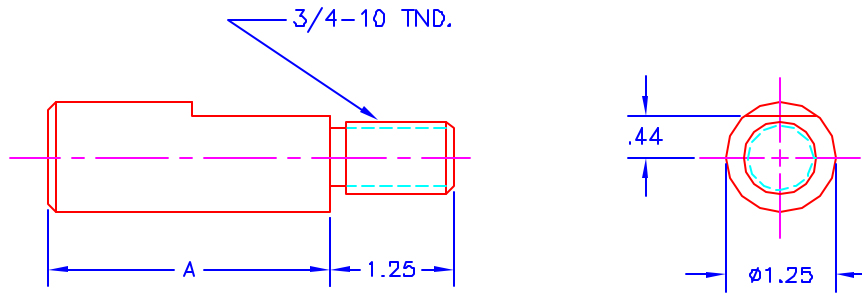


JOLICO NO.	A LENGTH
J-96130	4.50
J-96131	4.75
J-96132	5.00
J-96133	5.25
J-96134	5.75
J-96135	6.25
J-96136	6.75
J-96137	7.25
J-96138	7.75
J-96139	8.25
J-96140	8.50
J-96141	8.75

JOLICO NO.	A LENGTH	JOLICO NO.	A LENGTH
J-96142	9.25	J-96154	13.25
J-96143	9.50	J-96155	13.50
J-96144	10.00	J-96156	13.75
J-96145	10.50	J-96157	14.00
J-96146	10.75		
J-96147	11.25		
J-96148	11.75		
J-96149	12.00		
J-96150	12.25		
J-96151	12.50		
J-96152	12.75		
J-96153	13.00		

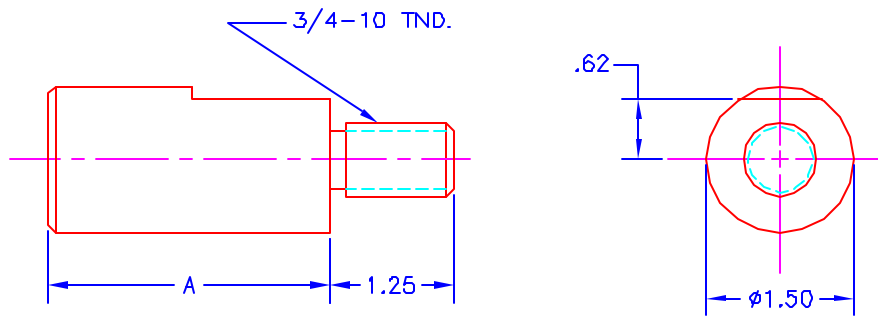
PRESSURE PIN EXTENSIONS

THESE EXTENSION PINS ARE SIMILAR TO THE ONE ON
PAGE JC-2 EXCEPT THE THREAD SIZE IS 3/4-10



LIGHT SERIES

JOLICO NO.	REF. NO.	A
J-96701	30	2.88
J-96702	35	3.38
J-96703	40	3.88
J-96704	45	4.38
J-96705	50	4.88
J-96706	55	5.38

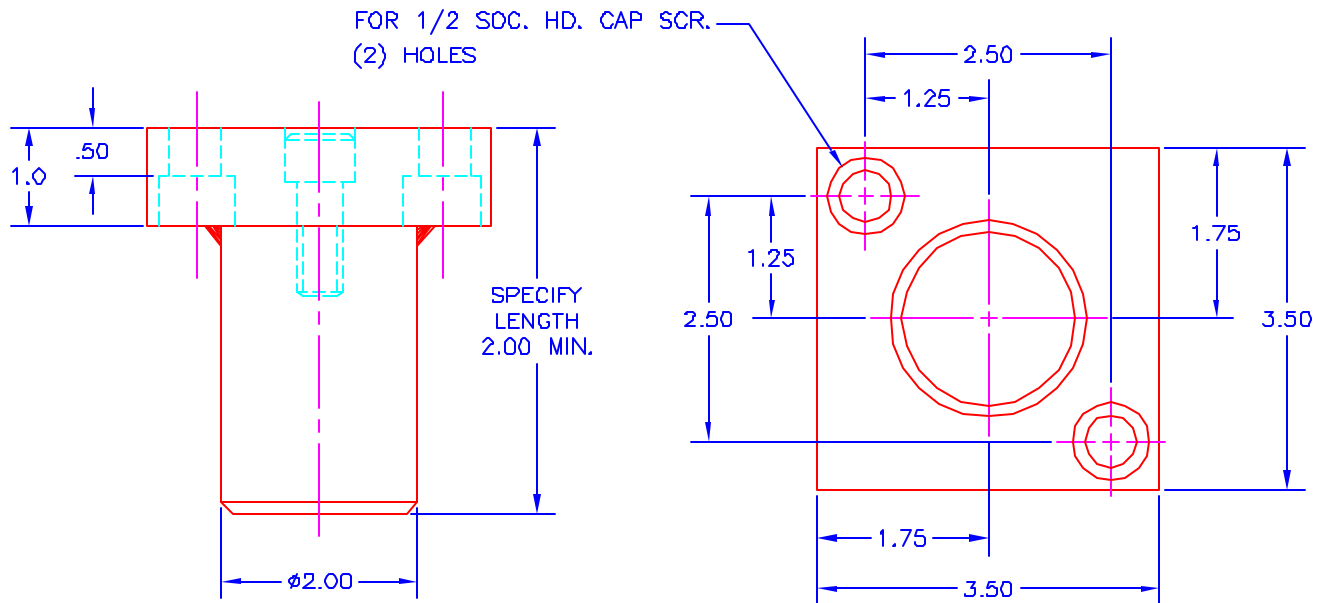


HEAVY SERIES

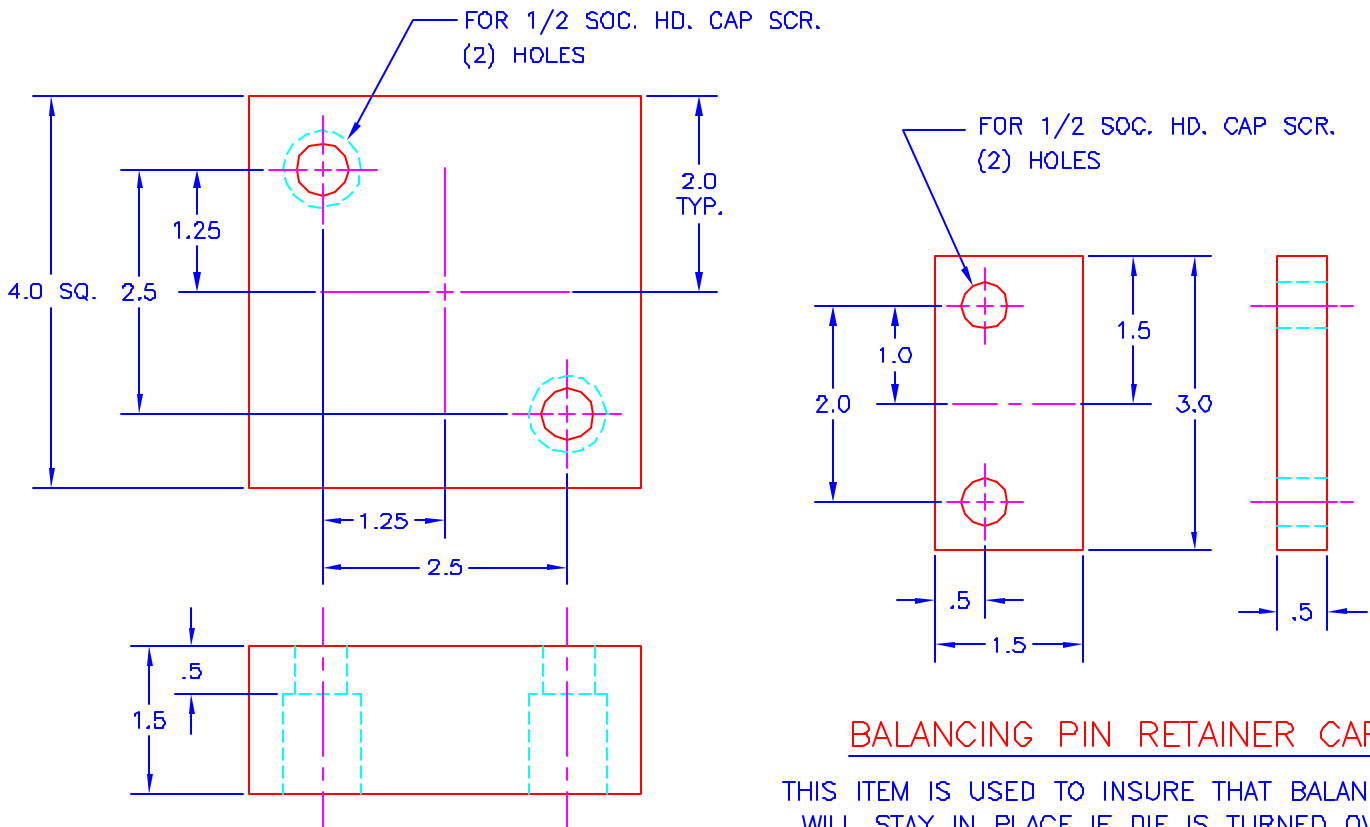
JOLICO NO.	REF. NO.	A
J-96707	30A	2.88
J-96708	35A	3.38
J-96709	40A	3.88
J-96710	45A	4.38
J-96711	50A	4.88
J-96712	55A	5.38

BALANCING PIN BOTTOMING BLOCK

THIS ITEM IS USED IN DIES WITH BALANCING PINS.
IT MOUNTS TO A LOWER DIE PAD AND RESTS ON BALANCING PIN.



JOLICO NO.	REF. NO.
J-49201	DX2-16-1201



BOTTOMING BLOCK

THIS ITEM IS ESSENTIALLY THE
SAME AS THE ITEM ABOVE.

JOLICO NO.	REF. NO.
J-49101	DX2-16-1101

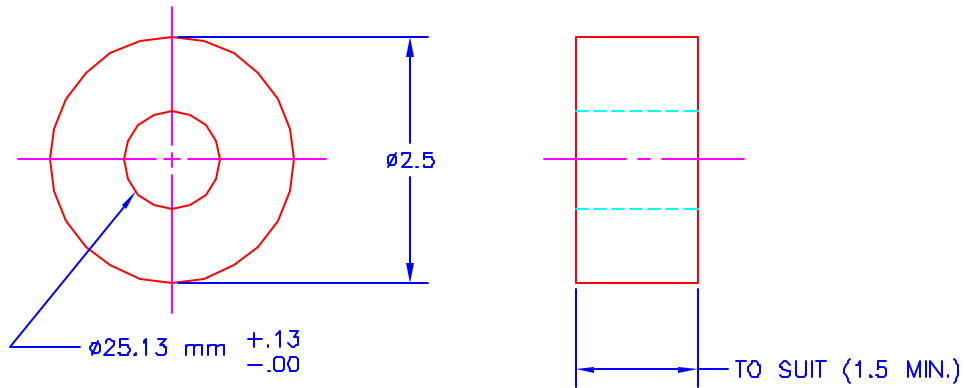
BALANCING PIN RETAINER CAP

THIS ITEM IS USED TO INSURE THAT BALANCING
WILL STAY IN PLACE IF DIE IS TURNED OVER.

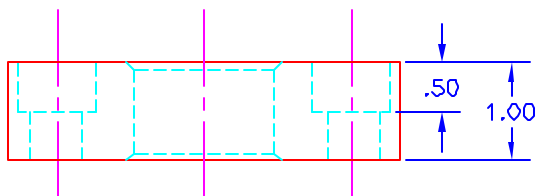
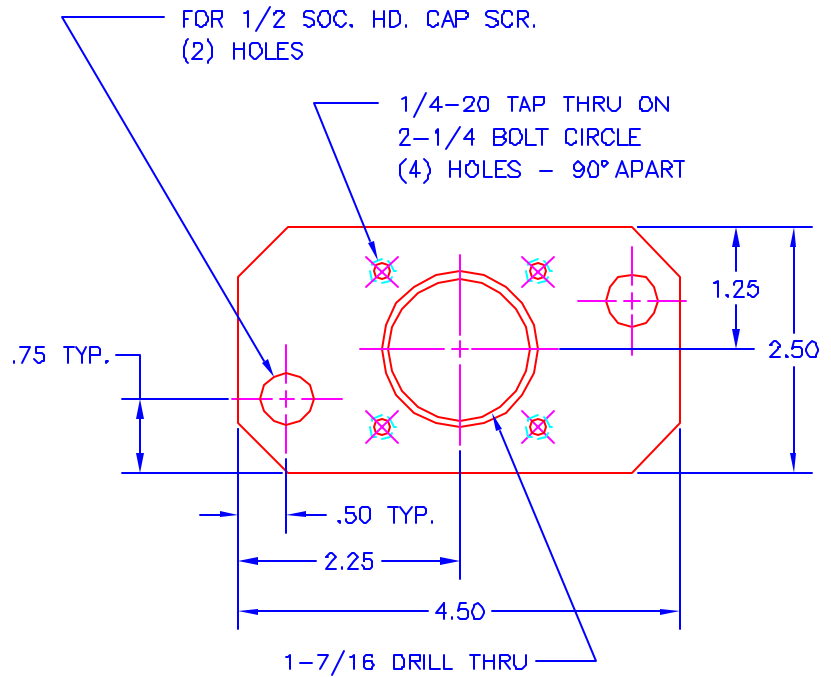
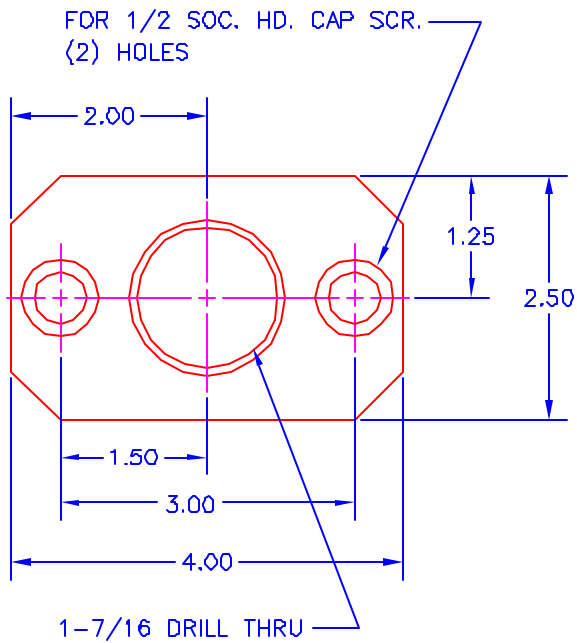
JOLICO NO.	REF. NO.
J-49102	DX2-16-1102

LIFTER MOUNTING BLOCK AND RACK GUIDE

PRINTED COPY IS
UNCONTROLLED

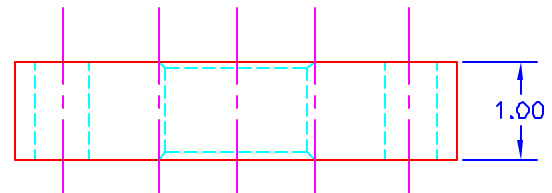


JOLICO NO.	REF. NO.
J-99300	BUDD



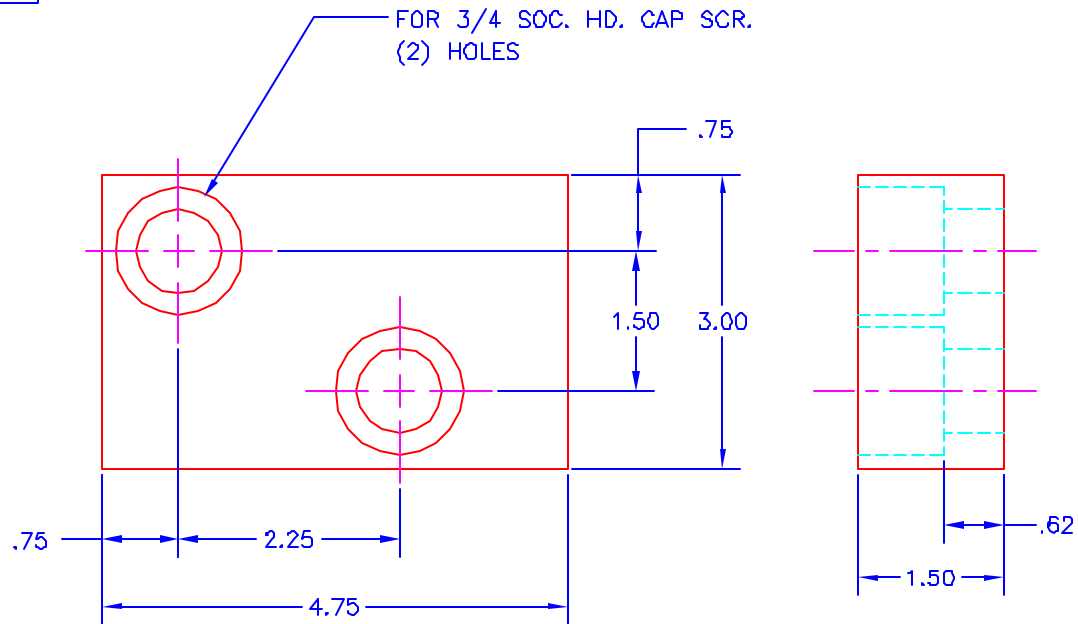
MATERIAL AMPCO 21 BRONZE

JOLICO NO.	REF. NO.
J-99301	BUDD



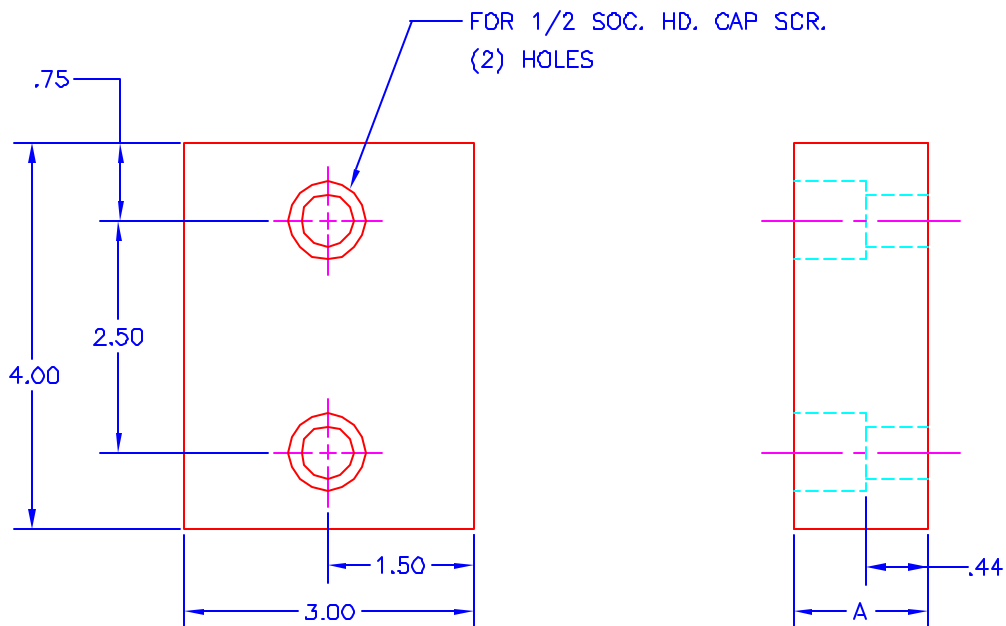
MATERIAL AISI-1018

JOLICO NO.	REF. NO.
J-99302	BUDD



COVER PLATE

JOLICO NO.	REF. NO.
J-49150	DX14-2-0401



BOTTOMING BLOCK

JOLICO NO.	REF. NO.	A
J-49104	DX2-2-0101	1.25
J-49105	DX1-3-0913	1.41

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The drawing consists of two views of a mechanical assembly, labeled A and B.

View A (Left): This is a front view of the assembly. It shows a central vertical component with a diameter of $\phi 1.75$. The overall width of the assembly is 3.0. The distance from the centerline to the outer edge is 1.50. The height of the central component is 1.00. The overall height of the assembly is B. The assembly is shown in a cross-section view with a dashed line indicating the centerline. The section line A-A is indicated at the top and bottom.

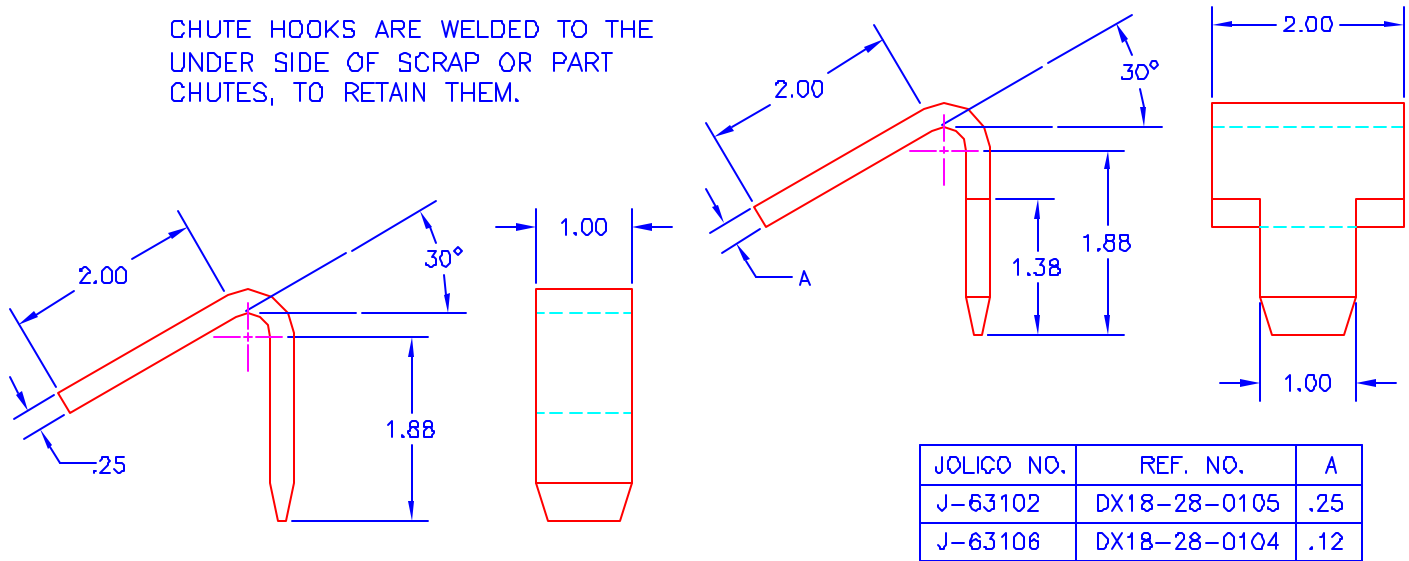
View B (Right): This is a section view A-A of the assembly. It shows the internal components, including a spring labeled ϕD SPRING. The overall width of the assembly is 3.0. The distance from the centerline to the outer edge is 1.38. The height of the central component is 1.00. The overall height of the assembly is C. The assembly is shown in a cross-section view with a dashed line indicating the centerline. The section line A-A is indicated at the top and bottom.

JOLICO NO.	REF. NO.	A	B	C	(D) MED. HIGH PRESSURE SPRING
J-40800		SPECIFY TRAVEL LENGTHS OVER 4.0 INCHES			
J-40801	M-3961-A	2.0	5.25	8.75	1 REQ'D. 1-1/4 O.D. X 8.0 F.L.
J-40802	M-3961-B	2.5	5.75	10.75	1 REQ'D. 1-1/4 O.D. X 10.0 F.L.
J-40803	M-3961-C	3.0	6.25	12.75	1 REQ'D. 1-1/4 O.D. X 12.0 F.L.
J-40804	M-3961-D	3.5	6.75	14.75	2 REQ'D. 1-1/4 O.D. X 7.0 F.L.
J-40805	M-3961-E	4.0	7.25	14.75	2 REQ'D. 1-1/4 O.D. X 7.0 F.L.

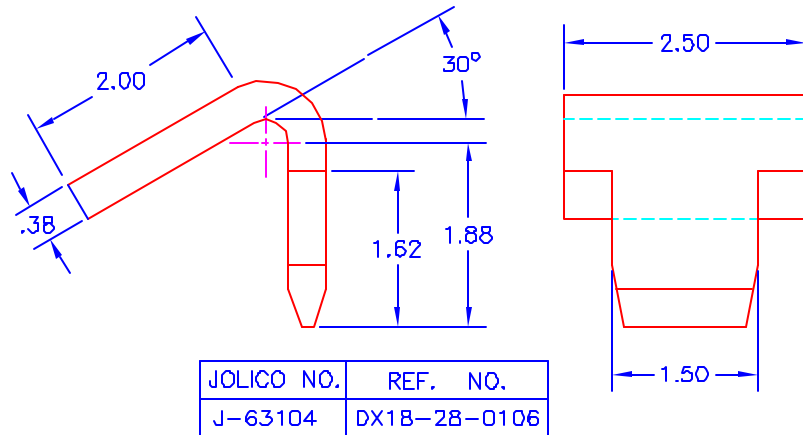
CHUTE HOOKS

PRINTED COPY IS
UNCONTROLLED

CHUTE HOOKS ARE WELDED TO THE
UNDER SIDE OF SCRAP OR PART
CHUTES, TO RETAIN THEM.



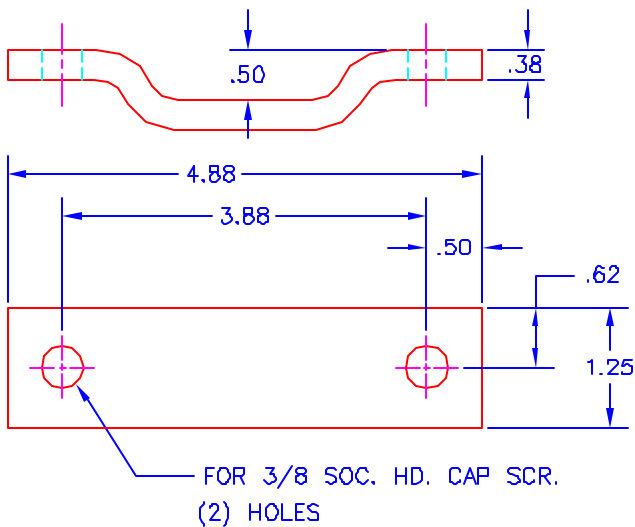
JOLICO NO.	REF. NO.
J-63105	CB-NO.1



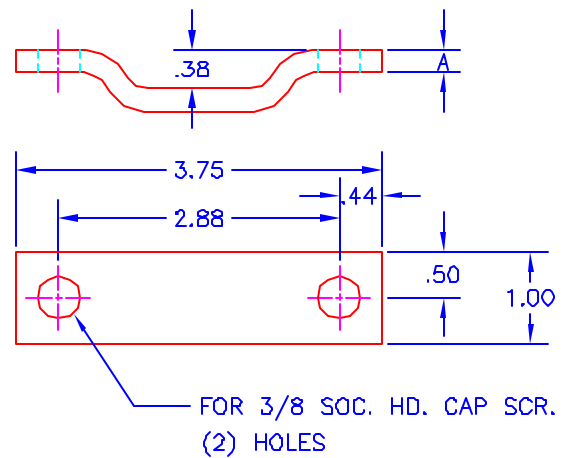
JOLICO NO.	REF. NO.
J-63104	DX18-28-0106

SCRAP CHUTE RETAINERS

CHUTE RETAINERS WHEN ATTACHED TO DIE ACCEPT
CHUTE HOOKS THAT RETAIN CHUTES



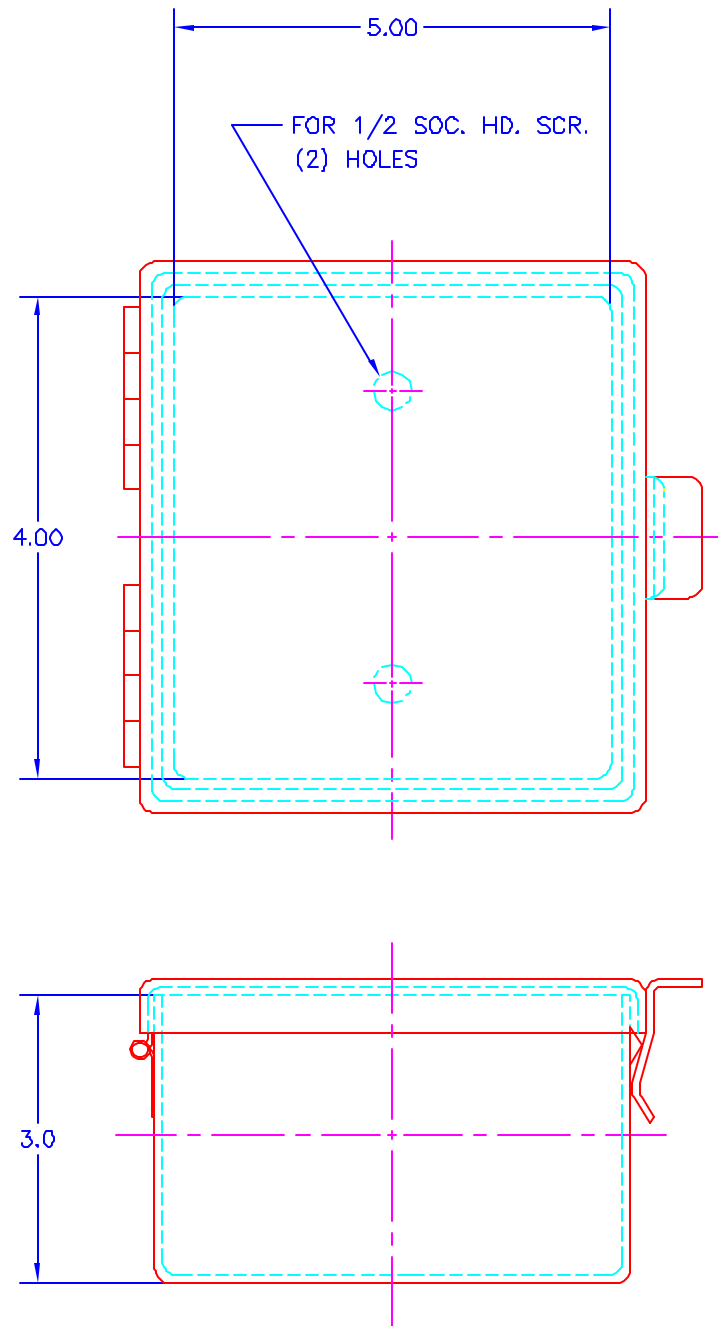
JOLICO NO.	REF. NO.
J-63103	DX18-28-0103



JOLICO NO.	REF. NO.	REF. NO.	A
J-63101	DX18-28-0102	CB-NO.1	.25
J-63107	DX18-28-0101		.12

PUNCH STORAGE BOX

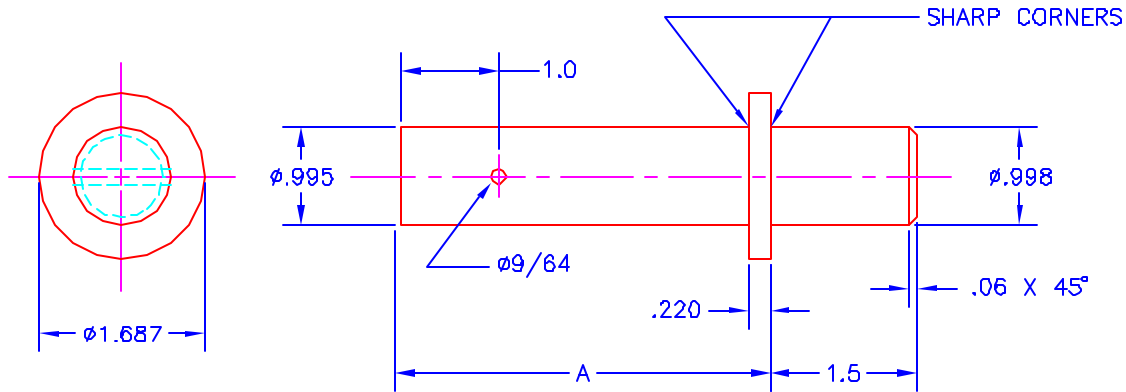
PUNCH STORAGE BOXES ARE USED TO STORE EXTRA PUNCHES.
BOX HOLDS APPROX. 15 PUNCHES



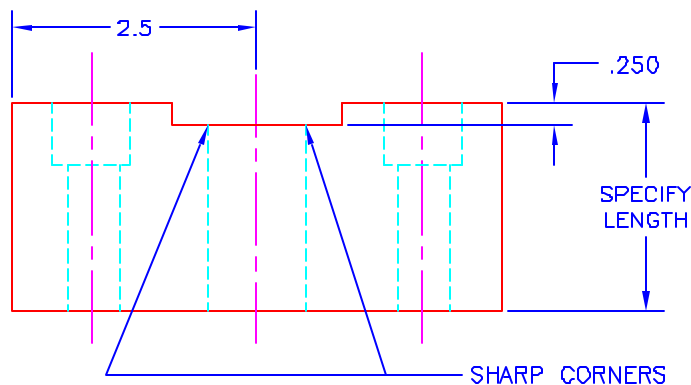
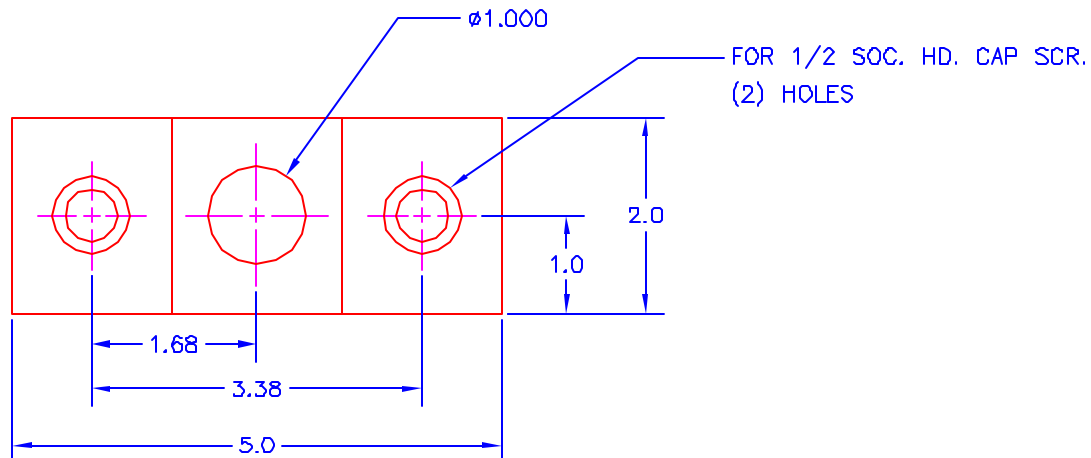
JOLICO NO.
J-29004

DIE STORAGE PIN

THIS PIN WHEN USED WITH IT'S COUNTERPART DETAIL BELOW
SERVES AS A COMBINATION STOP BLOCK AND DIE STORAGE BLOCK.
THE LIP ON THE STORAGE PIN IS DESIGNED SO THAT IF PLACE
UNDER SEVERE STRESS, IT WILL SHEAR OFF.



JOLICO NO.	REF. NO.	"A"
J-28834	DS-3 (PIN)	TO SUIT
J-28840	BUDD	1.25



DIE STORAGE BLOCK

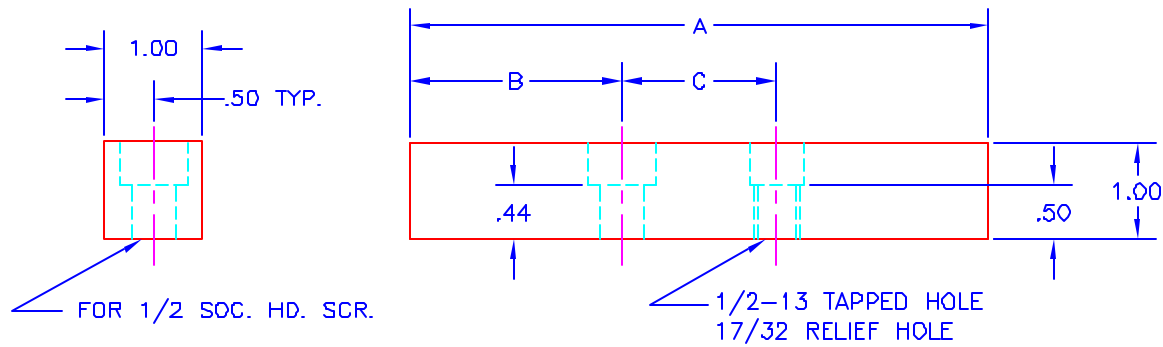
THIS DETAIL WORKS IN CONJUNCTION
WITH THE DETAIL ABOVE.

JOLICO NO.	REF. NO.
J-28833	DS-3 (BLOCK)

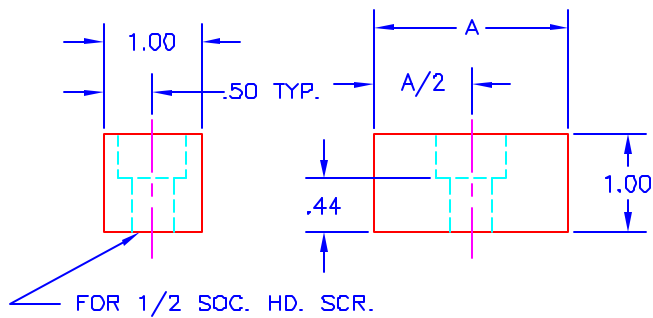
STANDARD KEYS

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UNCONTROLLED

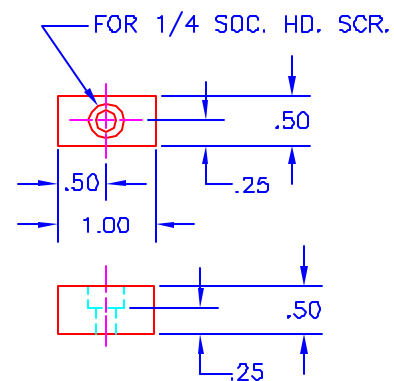
THESE ITEMS, WHICH ARE USED IN A MULTITUDE
OF WAYS, ARE ESSENTIAL IN MANY PLACES.



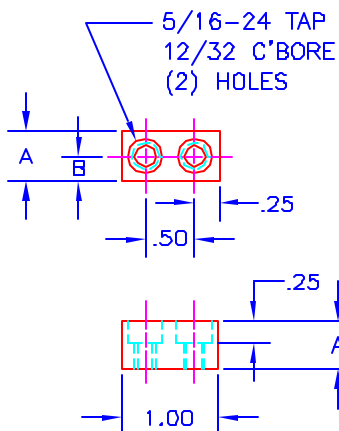
JOLICO NO.	REF. NO.	A	B	C
J-96402	DX10-14-0102	3.0	.75	1.50
J-96403	DX10-14-0103	4.0	1.25	1.50
J-96404	DX10-14-0104	6.0	2.00	2.00



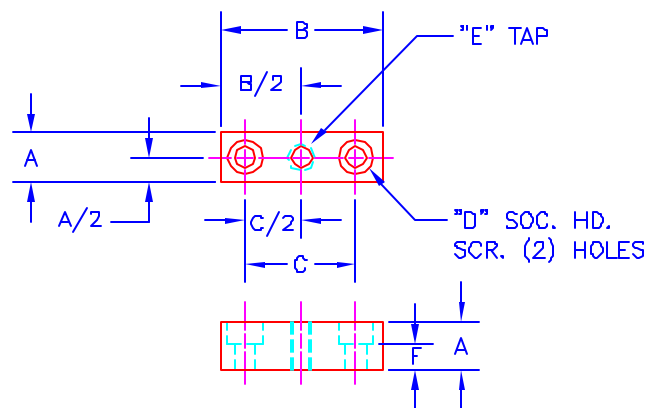
JOLICO NO.	REF. NO.	A
J-96401	DX10-14-0101	1.5
J-96406	DX10-14-0106	2.0



JOLICO NO.	REF. NO.
J-96405	DX10-14-0105



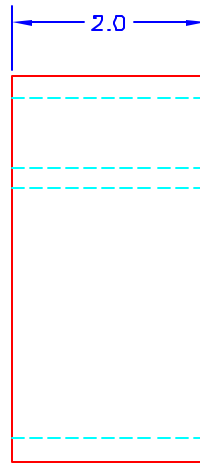
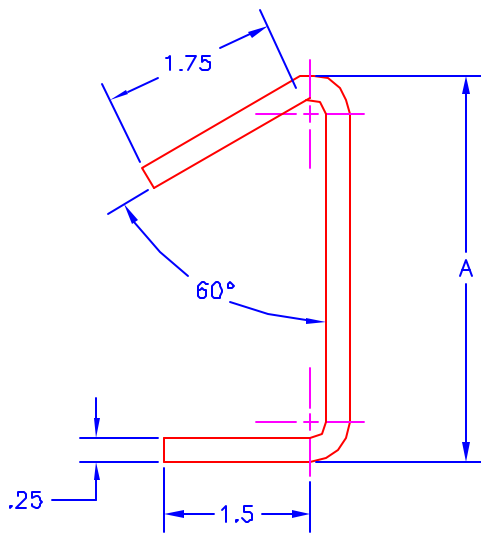
JOLICO NO.	REF. NO.	A	B
J-18401	BUD STYLE 1	.50	.25
J-18402	BUD STYLE 2	.56	.28



JOLICO NO.	REF. NO.	A	B	C	D	E	F
J-18301	CHE. STYLE 1	.375	1.25	.75	#10	10-24	.15
J-18302	CHE. STYLE 2	.500	1.62	1.12	1/4	1/4-20	.21
J-18303		.500	3.00	1.75	1/4	1/4-20	.21
J-18304		.500	4.00	2.25	1/4	1/4-20	.21
J-18305		.500	5.00	3.50	1/4	1/4-20	.21
J-18306		.500	6.00	3.50	1/4	1/4-20	.21

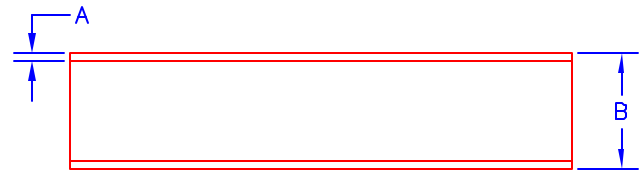
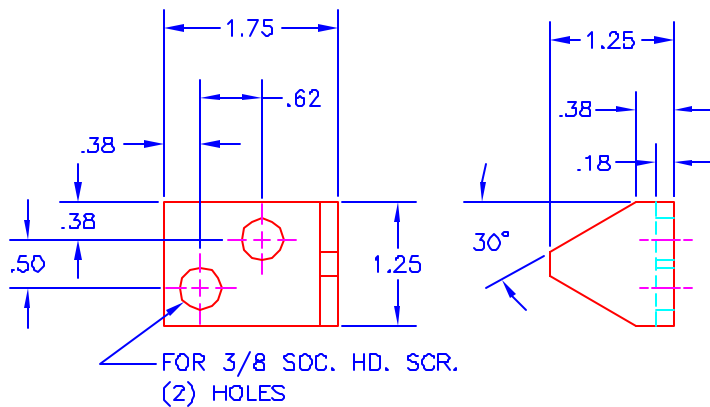
CHUTE SUPPORTS

THESE ITEMS ARE USED TO SUPPORT THE UPPER SECTION
OF A SCRAP CHUTE. THEY ARE WELDED TO CHUTE
AND RESTS ON LOWER DIE SHOE.



NOTE:
WILL MANUFACTURE SPECIAL
LENGTHS UPON REQUEST.

JOLICO NO.	A
J-63208	8.0
J-63210	10.0
J-63212	12.0

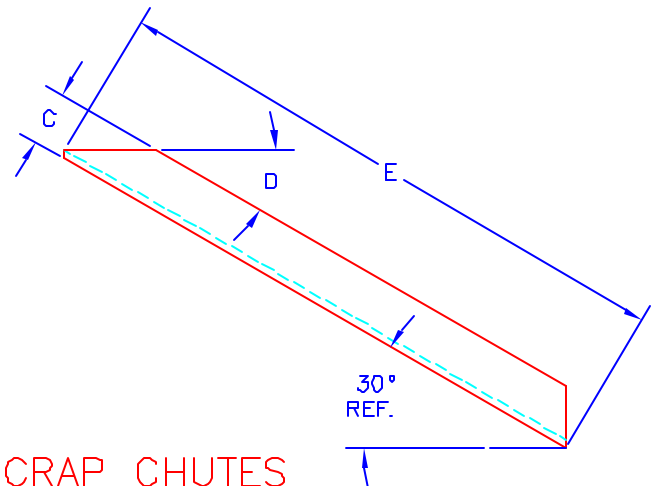


NOTE:
WILL QUOTE AND MANUFACTURE ALL
SCRAP CHUTES TO CUSTOMER'S
SPECIFICATION.

SIDE MOUNTING CHUTE BRACKET

THIS DETAIL IS WELDED TO THE SIDE OF A
SCRAP CHUTE AND IS THEN FASTENED TO
A SURFACE AREA NEXT TO THE CHUTE.

JOLICO NO.
J-63151



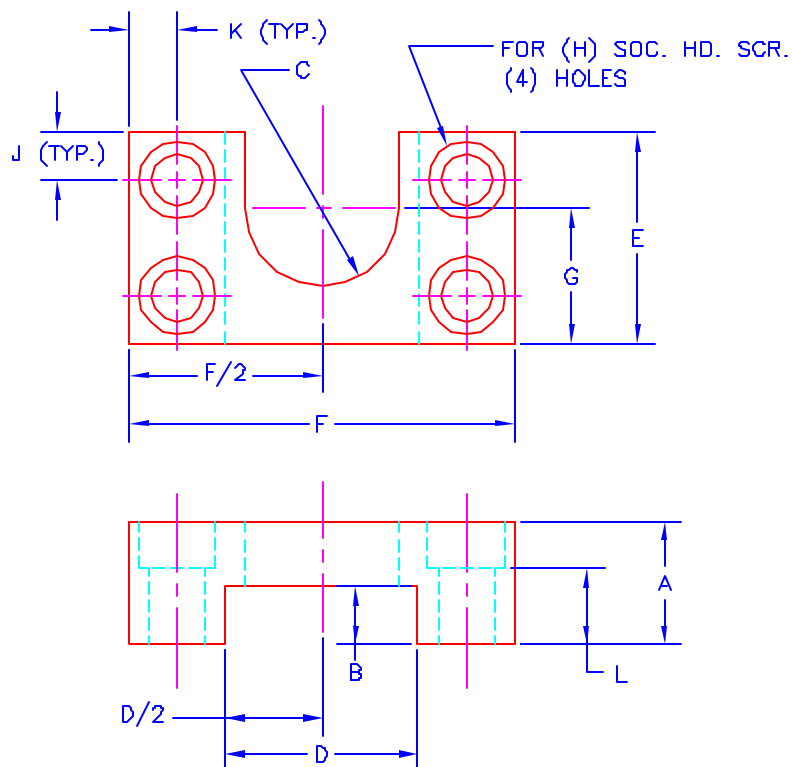
SCRAP CHUTES

SCRAP CHUTES ARE USED TO SHED SLUGS
AND SCRAP AWAY FROM DIE AREA.

JOLICO NO.
J-63300

CAM MOUNTING PLATES

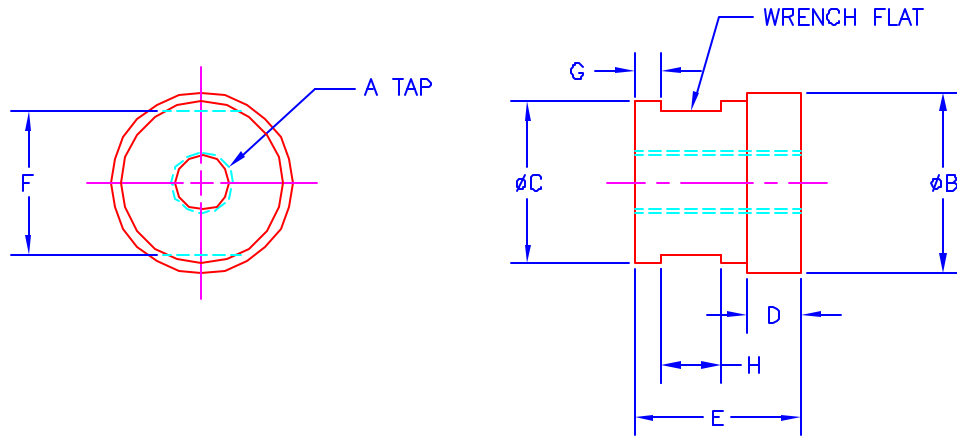
THESE PLATES ARE ATTACHED TO THE REAR OF A
SLIDE TO ASSURE ITS RETURN TO OPEN POSITION



NOTE FOR CAM COUPLINGS SEE PAGE 3.

JOLICO NO.	OLD "J" NO.	REF. NO.	A	B	C	D	E	F	G	H	J	K	L
J-79601	J-9601	DJ3-0101	1.00	0.43	0.68	1.88	2.25	3.75	1.25	1/2	0.62	0.47	0.50
J-79602	J-9602	DJ3-0102	1.25	0.56	0.82	2.12	2.50	4.00	1.50	1/2	0.75	0.47	
J-79603	J-9603	DJ3-0103	1.25	0.56	0.94	2.38	3.00	4.50	1.75	5/8	0.82	0.53	0.75
J-79604	J-9604	DJ3-0104	1.50	0.68	1.06	2.62	3.25	5.12	2.00	3/4	0.82	0.62	
J-79605	J-9605	DJ3-0105	1.75	0.82	1.31	3.12	4.00	5.62	2.50	3/4	1.00	0.62	
J-79606	J-9606	DJ3-0106	2.25	1.06	1.82	4.12	5.50	7.12	3.50	3/4	1.00	0.75	

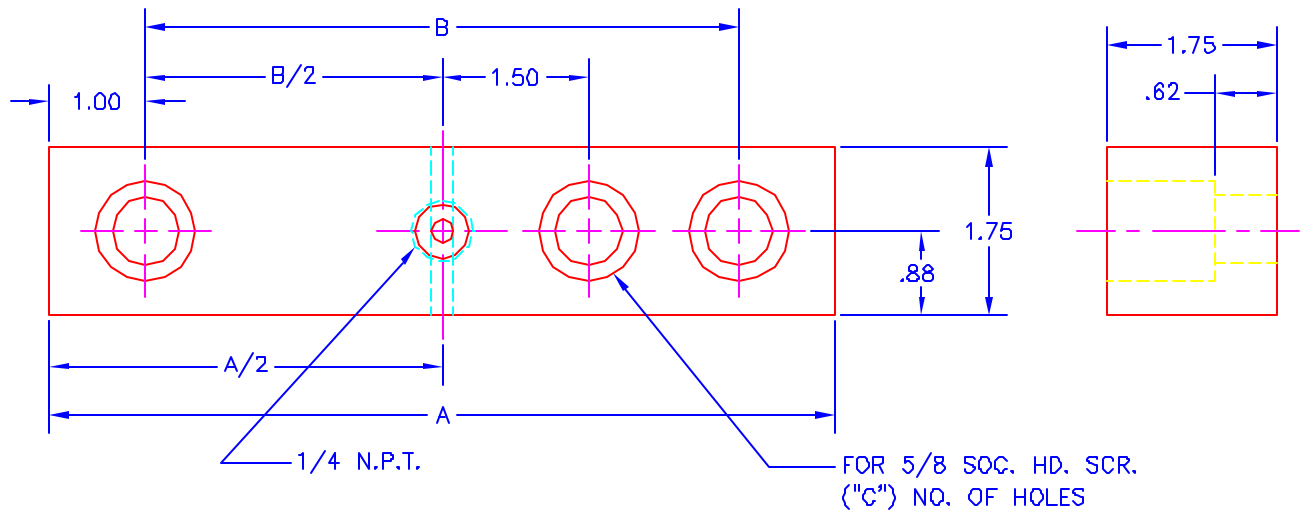
THESE COUPLINGS ARE USED WITH THE CAM MOUNTING PLATE,
(SEE PAGE 2) AND A ROD FLANGE MOUNTED AIR CYLINDER.
THE AIR CYLINDER IS FASTENED TO THE SHOE, AND THEN SCREWED
ON THE COUPLING SLIDE INTO THE SLOT OF THE MOUNTING PLATE.



JOLICO NO.	REF. NO.	"A" TAP	øB	øC	D	E	F	G	H
J-79607	DJ3-0107	3/4-10	1.75	1.25	0.38	1.12	1.12	0.12	0.50
J-79608	DJ3-0108	1-8	2.00	1.50	0.50	1.50	1.38	0.18	0.62
J-79609	DJ3-0109	1-1/4-12	2.25	1.75	0.50	1.88	1.62	0.31	0.75
J-79610	DJ3-0110	1-1/2-12	2.50	2.00	0.62	2.25	1.88	0.38	0.75
J-79611	DJ3-0111	2-12	3.00	2.50	0.75	3.00	2.38	0.38	0.88
J-79612	DJ3-0112	2-3/4-12	4.00	3.50	1.00	4.00	3.38	0.38	1.00
J-79613	————	3/4-16	1.75	1.25	0.38	1.12	1.12	0.12	0.50
J-79614	————	1-14	2.00	1.50	0.50	1.50	1.38	0.18	0.62
J-79615	————	1-3/8-12	2.50	2.00	0.62	2.25	1.88	0.38	0.75

CENTER KEYS

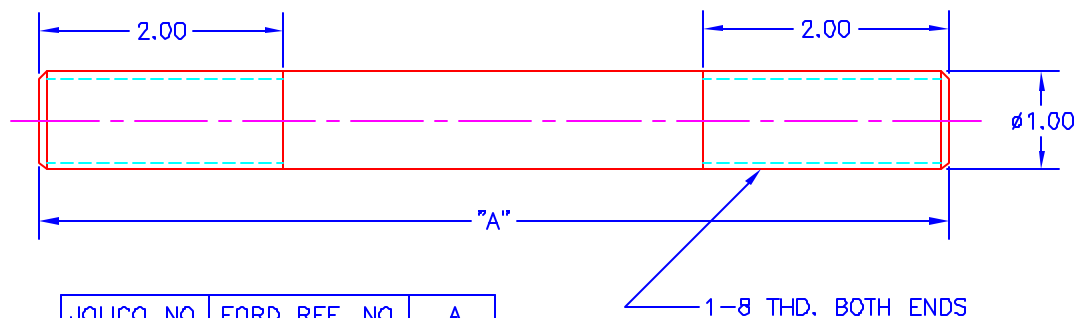
THESE PARTS ARE FASTENED TO THE DIE AT THE CENTER LINE OF THE SLIDE. THE SIDES OF THE CENTER WEAR PLATES OF THE SLIDE WEAR AGAINST THESE KEYS. THEY CUT DOWN THE WOBBLE OF SLIDES THAT ARE LONGER THAN THEY ARE WIDE.



JOLICO NO.	FORD REF. NO.	A	B	C
J-18208	DX7-22-1201	8.00	6.00	2
J-18214	DX7-22-1202	14.00	12.00	3
J-18216	DX7-22-1203	16.00	14.00	3
J-18218	DX7-22-1204	18.00	16.00	3
J-18220	DX7-22-1205	20.00	18.00	3

CAM RETURNS AND SAFETY STUDS

THESE PARTS ARE USED AS A SPRING RETURN FOR A SLIDE. THEY CAN ALSO BE USED AS A SAFETY STUD THAT GOES THRU AN AERIAL SLIDE GIB PLATE, J-43162 FOR EXAMPLE, TO A CORE IN THE TOP OF THE PUNCH SHOE WITH A NUT ON EACH END, THAT ASSURES RETENTION OF THE SLIDE.



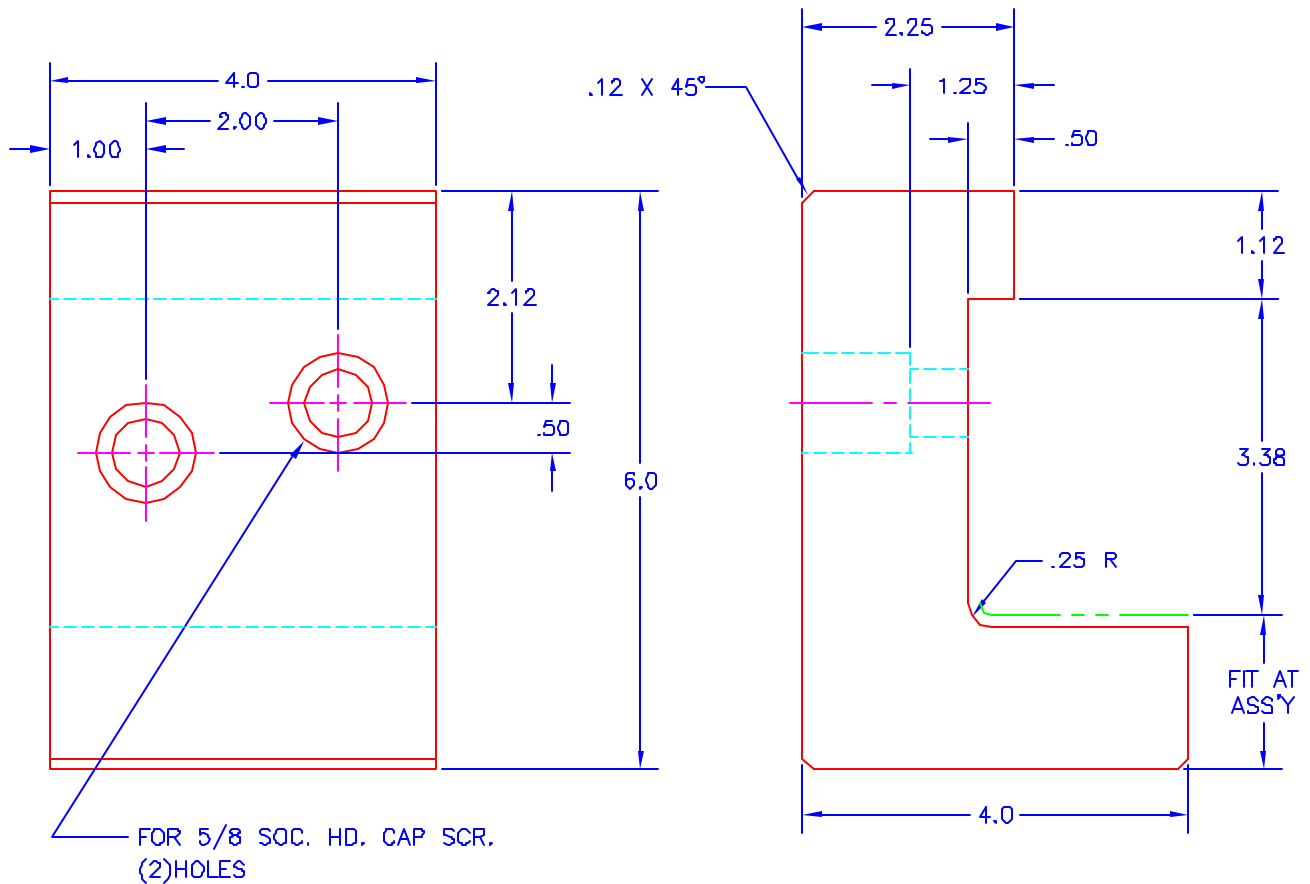
JOLICO NO.	FORD REF. NO.	A
J-20110	DX7-22-1301	10.50
J-20113	DX7-22-1302	13.00
J-20116	DX7-22-1303	16.25
J-20125	DX7-22-1304	25.00
J-20145	DX7-22-1305	

SPECIFY LENGTH WHEN ORDERING

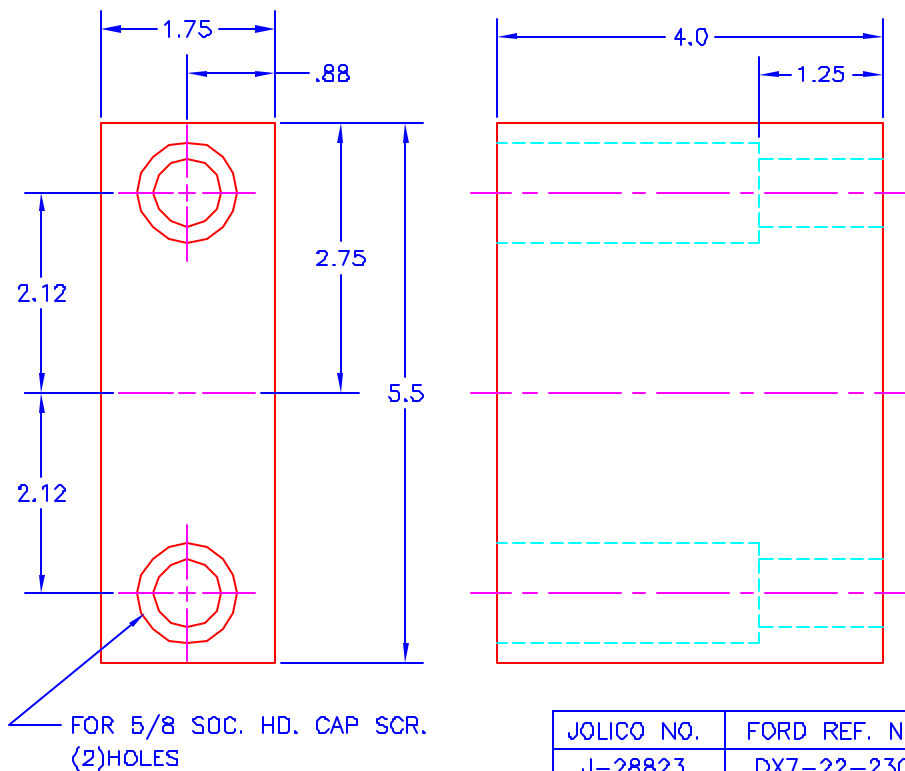
DUTCHMAN

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THIS ITEM IS SAFETY ITEM THAT IS USED TO KEEP
AERIAL SLIDE GIBS FASTENED IN PLACE.



JOLICO NO.	FORD REF. NO.
J-28771	DX7-14-0701



DRIVER SPACER PLATE

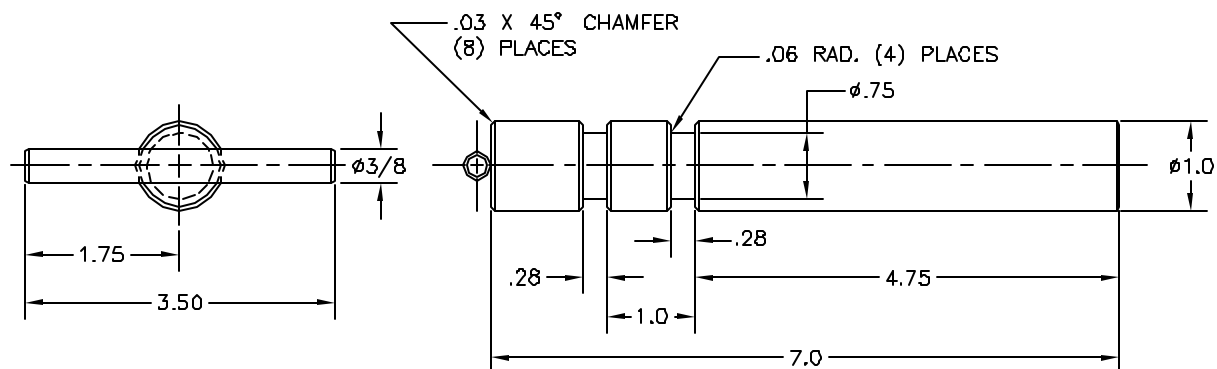
THIS SPACER PLATE IS USED
WHEN SLIDE DRIVER IS NOT
CAST ON TO THE SHOE.
IT SERVES AS A BACKUP
PLATE BETWEEN THE LOOSE
DRIVER AND THE MAIN
CASTING.

JOLICO NO.	FORD REF. NO.
J-28823	DX7-22-2301

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LOCK PIN

THIS IS A C.R.S. DETAIL THAT KEEPS A SLIDE ON AN ANGLE
FROM SLIDING DOWN, SHOULD SLIDE RETURN MECHANISM
FAIL WHEN SLIDE IS BEING REPAIRED IN DIE.

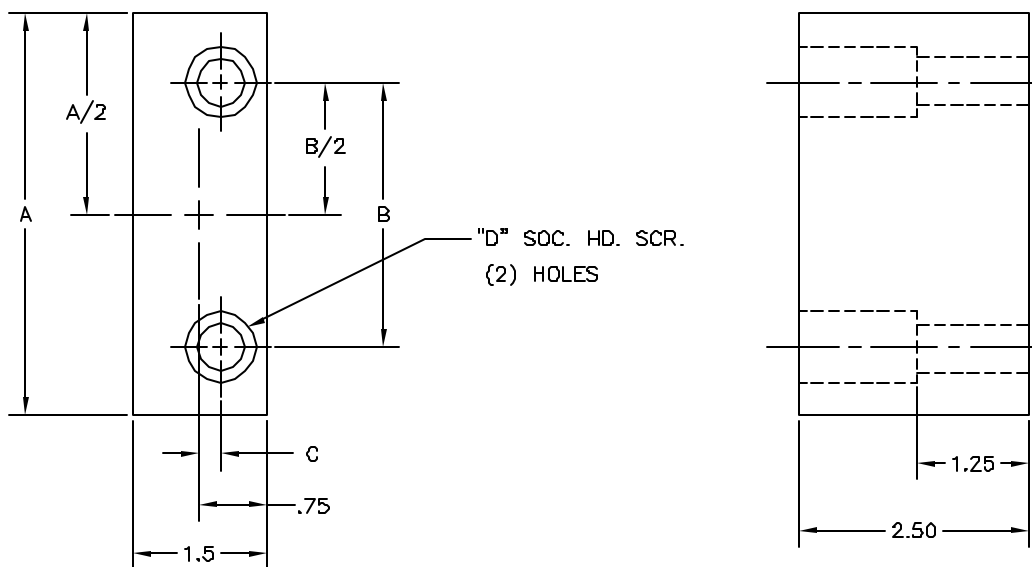


FOR RETAINER PLATE
SEE PAGE JF-5

JOLICO NO.	FORD REF. NO.
J-61903	DX7-6-0301

SLIDE STOP BLOCKS

THIS DETAIL STOPS A SLIDE AT ITS OPEN POSITION.
REMOVAL OF THIS BLOCK DURING SLIDE, REPAIR WILL
PERMIT ADDITION TRAVEL OF SLIDE, TO FACILITATE REPAIRS.

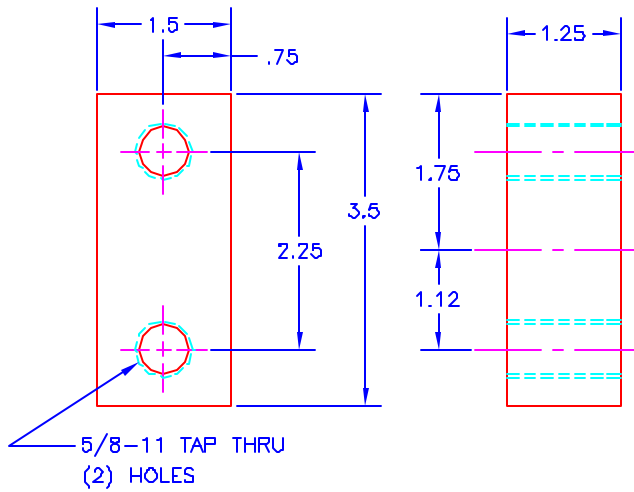


JOLICO NO.	FORD REF. NO.	A	B	C	D
J-28701	DX7-22-2001	4.5	3.00	.25	1/2
J-28221	DX7-22-2101	3.0	1.75	—	5/8

SLIDE STOP BLOCK

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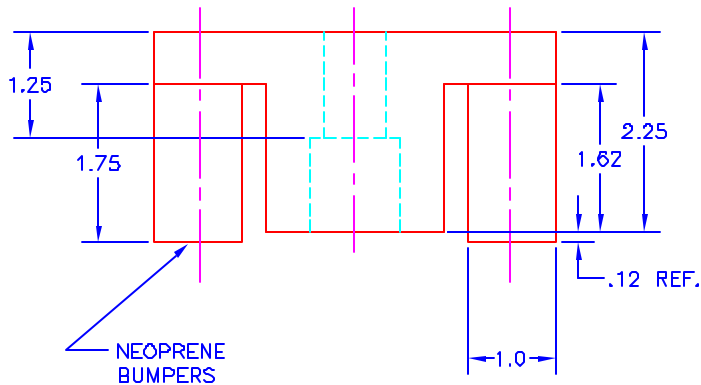
THIS DETAIL'S FUNCTION IS THE SAME AS J-28221 AND J-28701
EXCEPT IT CAN BE FASTENED FROM OUTSIDE OF THE DIE.



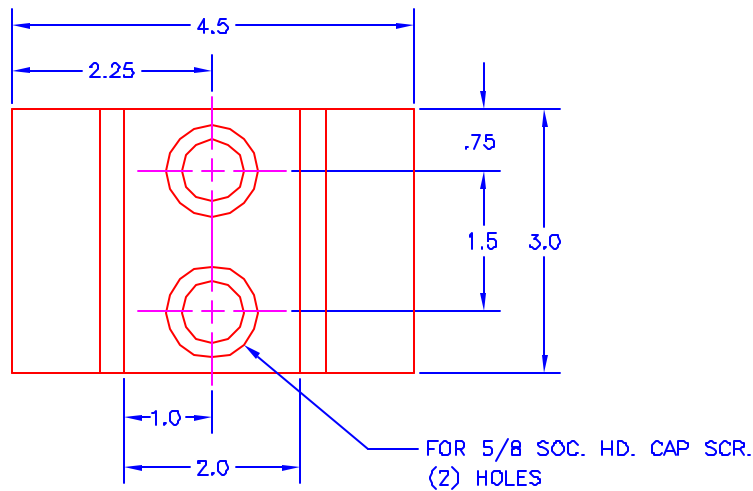
JOLICO NO.	FORD REF. NO.
J-28702	DX7-22-2002

CAM RETURN CUSHION AND STOP

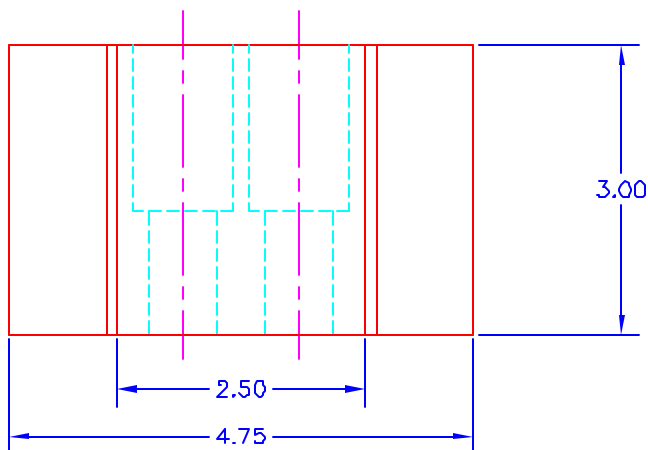
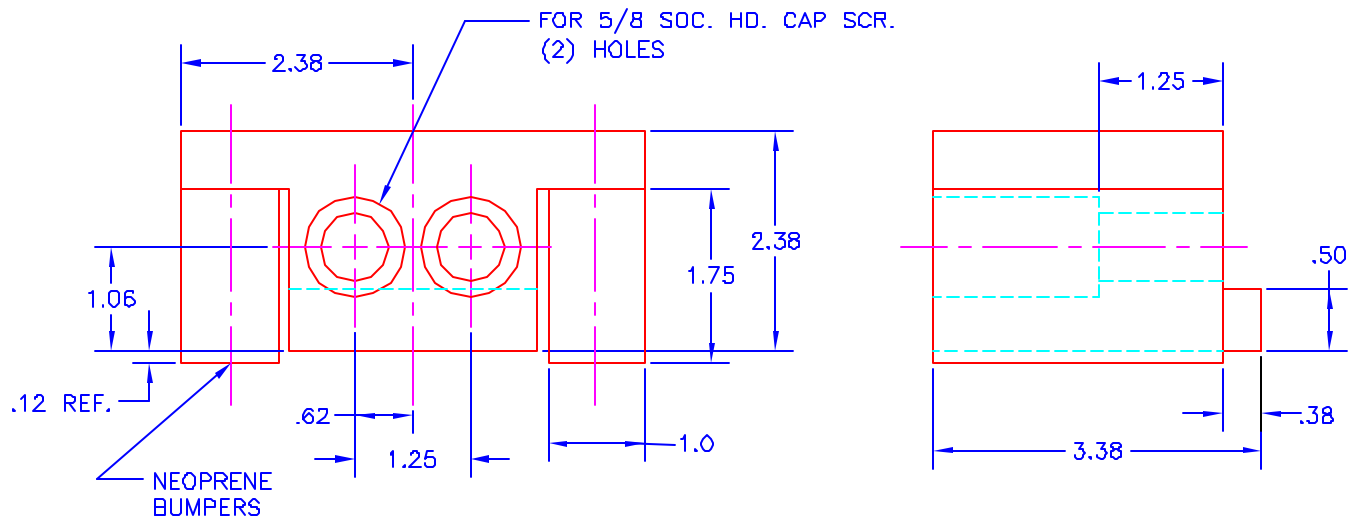
THIS ITEM REDUCES NOISE AND SHOCK TO
THE SHOE CASTING UPON SLIDE RETURN.



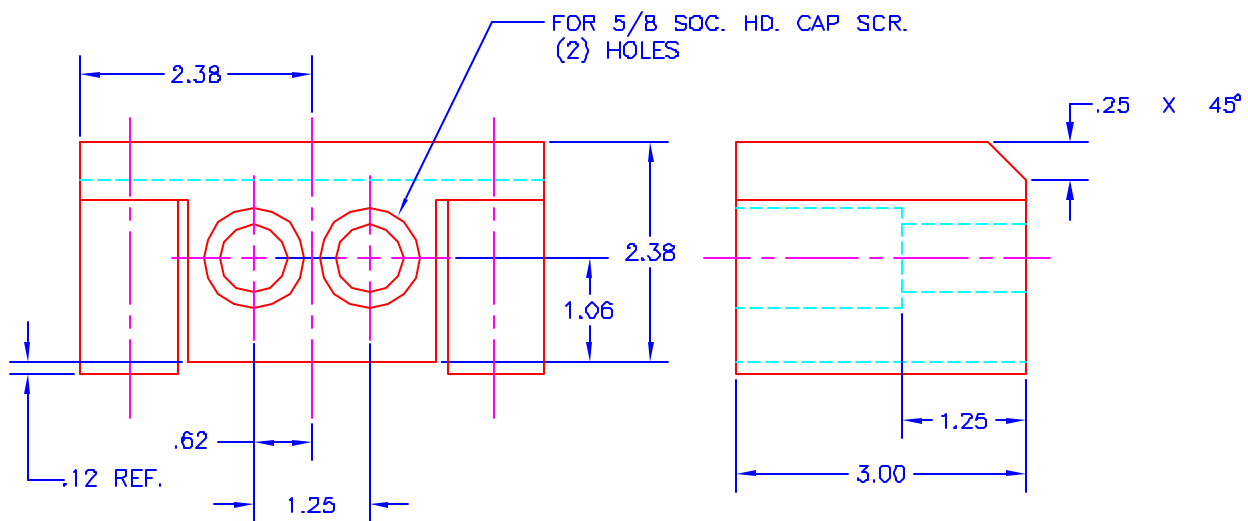
JOLICO NO.	FORD REF. NO.
J-28721	DX7-22-2901



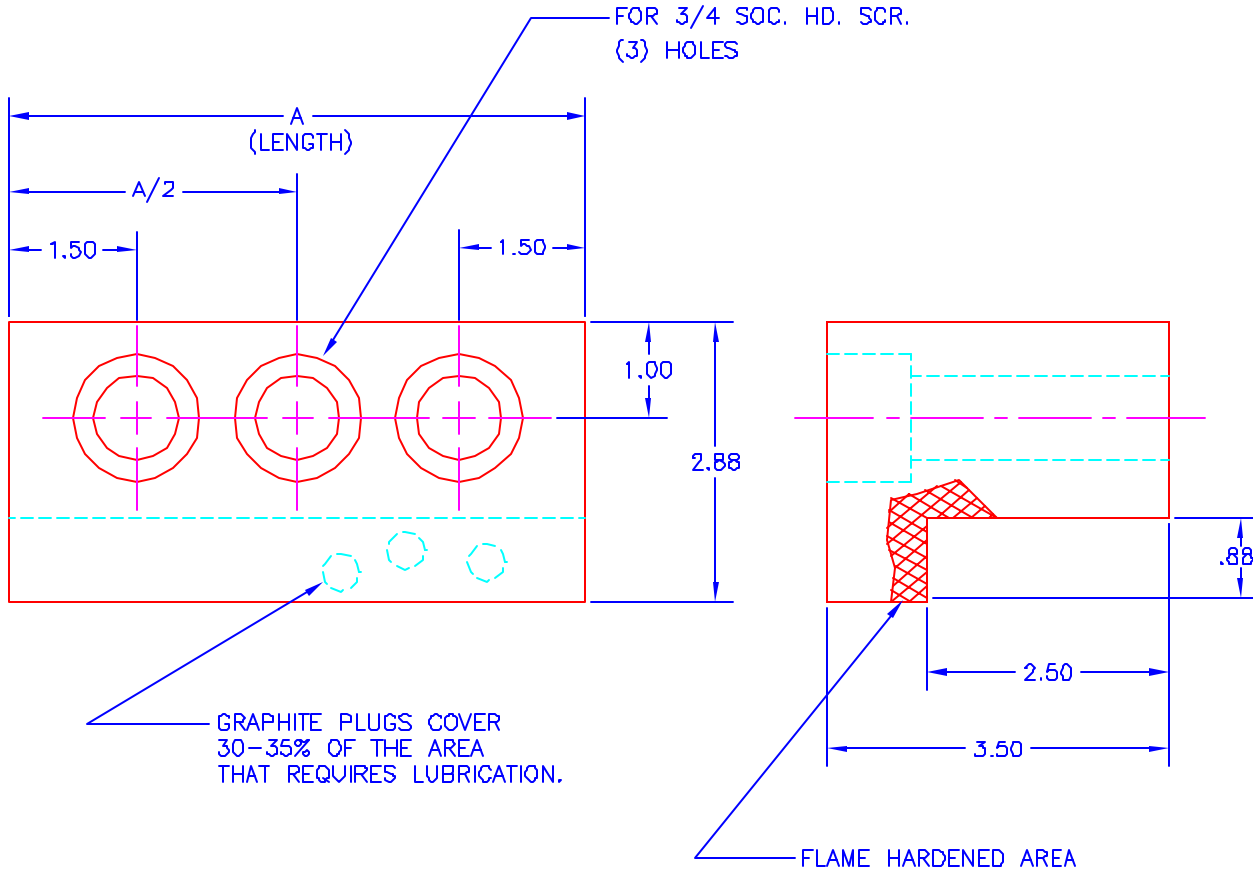
CAM RETURN CUSHION AND STOP WITH TOP FASTING



WITH LOCK STEP	
JOLICO NO.	FORD REF. NO.
J-28731	DX7-22-2801

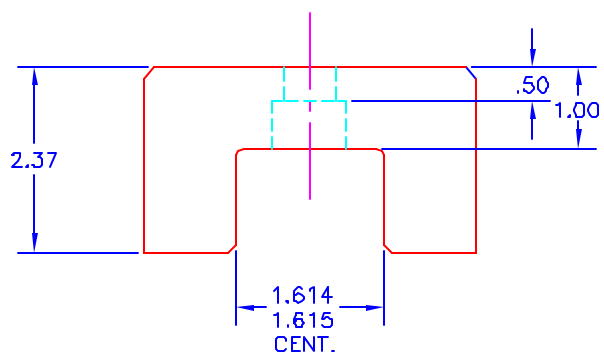
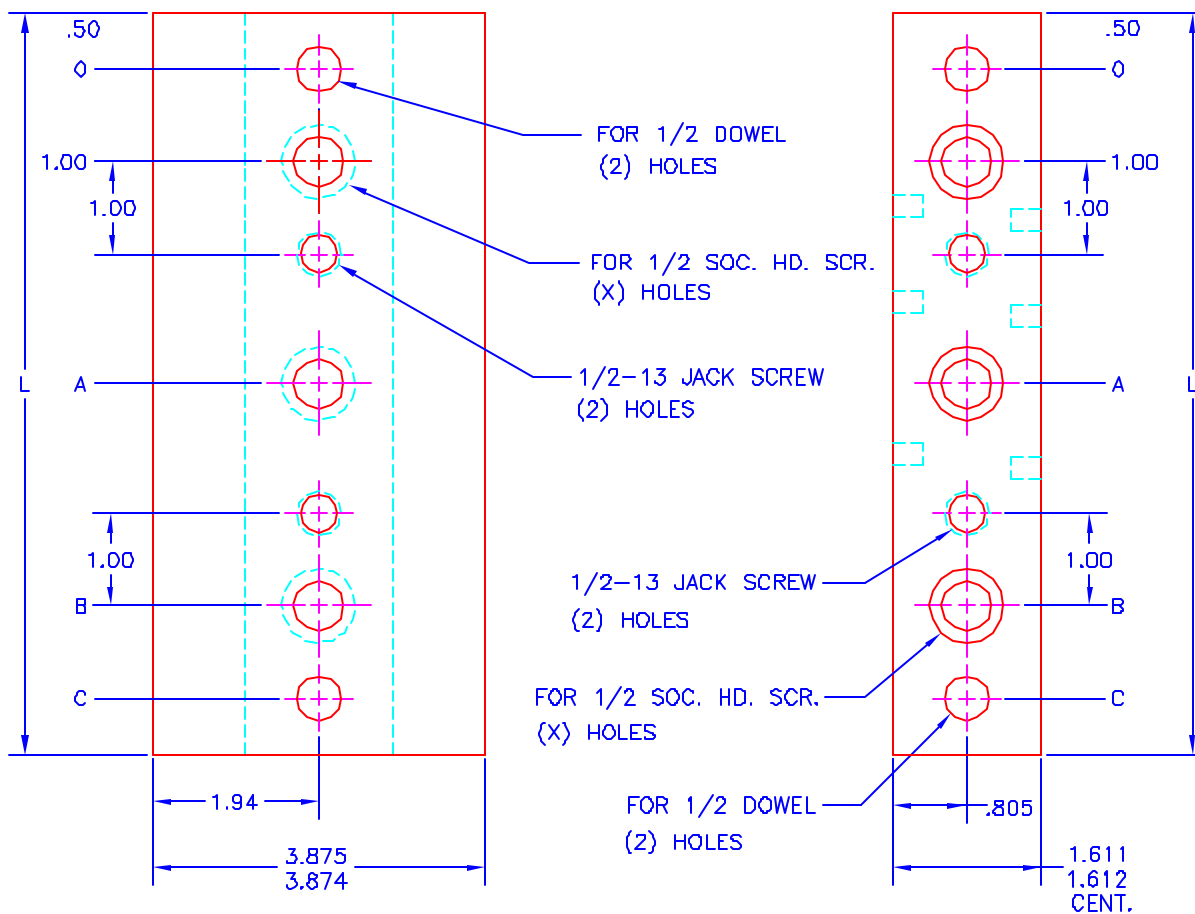


WITHOUT LOCK STEP	
JOLICO NO.	FORD REF. NO.
J-28732	DX7-22-2802

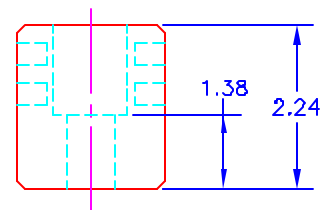


JOLICO NO.	FORD REF. NO.
J-28772	DX7-14-0702

CENTER KEY GUIDE AND CENTER KEY



CENTER KEY GUIDE

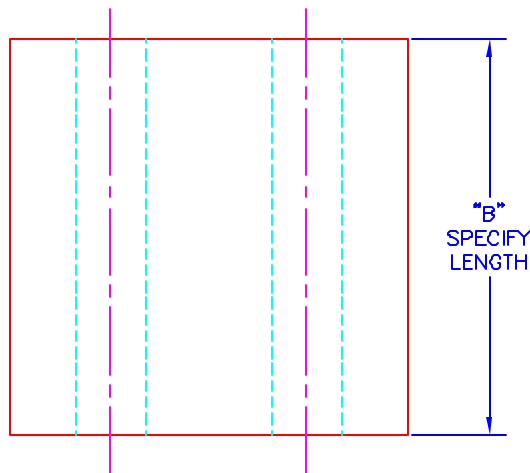
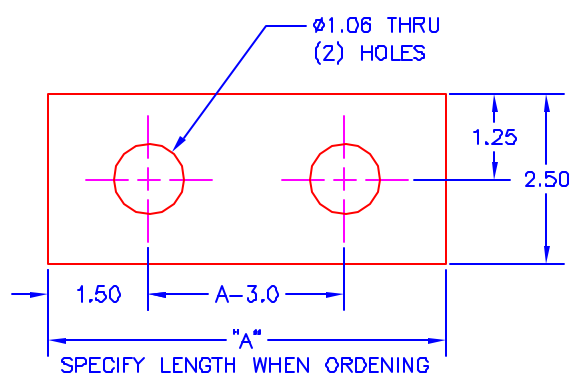


CENTER KEY

JOLICO NO.	FORD REF. NO.	NAME	L	X	A	B	C
J-18234	DX7-22-1216	GUIDE	8.0	2	—	6.0	7.0
J-18235	DX7-22-1217	GUIDE	10.0	2	—	8.0	9.0
J-18236	DX7-22-1218	GUIDE	12.0	3	5.5	10.0	11.0
J-18237	DX7-22-1219	GUIDE	14.0	3	6.5	12.0	13.0
J-18224	DX7-22-1210	KEY	8.0	2	—	6.0	7.0
J-18225	DX7-22-1211	KEY	10.0	2	—	8.0	9.0
J-18226	DX7-22-1212	KEY	12.0	3	5.5	10.0	11.0
J-18227	DX7-22-1213	KEY	14.0	3	6.5	12.0	13.0

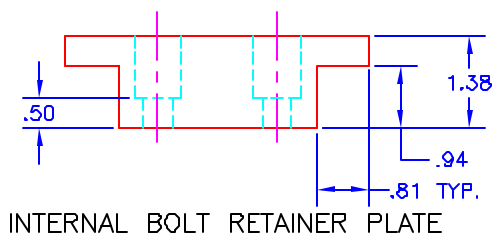
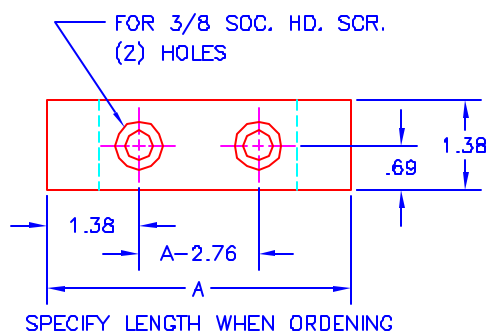
AERIAL CAMS AND GIBS

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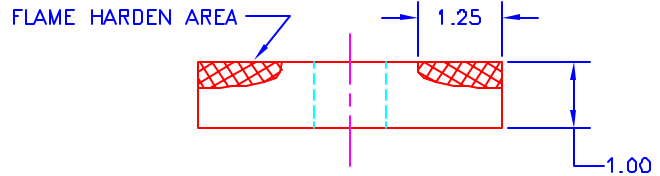
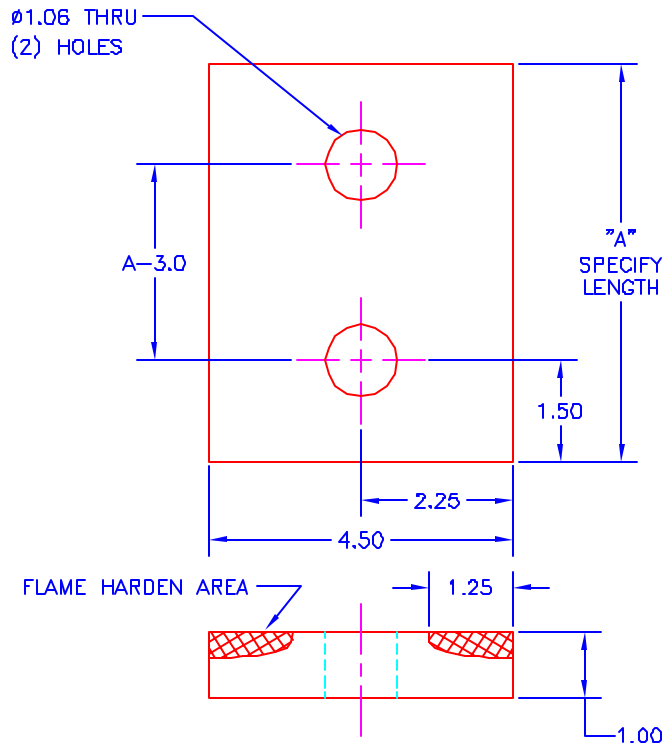
INTERNAL SPACER BLOCK

JOLICO NO.	FORD REF. NO.
J-43601	DX7-14-1001



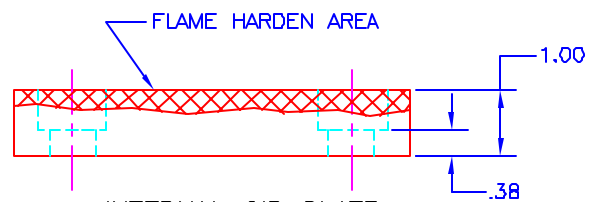
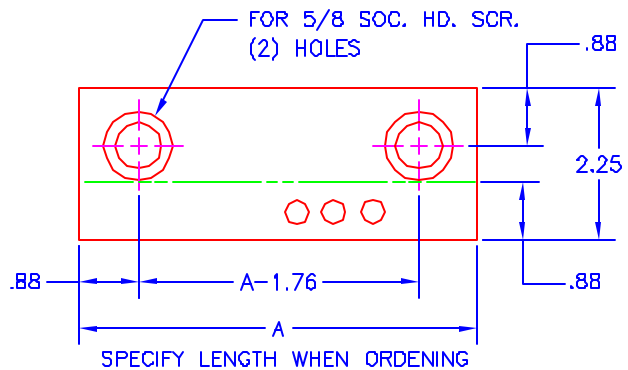
INTERNAL BOLT RETAINER PLATE

JOLICO NO.	FORD REF. NO.
J-43604	DX7-14-1004



RETAINER PLATE

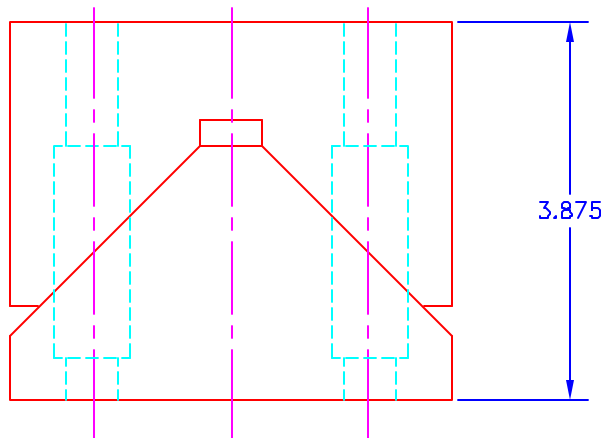
JOLICO NO.	FORD REF. NO.
J-43602	DX7-14-1002



INTERNAL GIB PLATE

JOLICO NO.	FORD REF. NO.
J-43603	DX7-14-1003

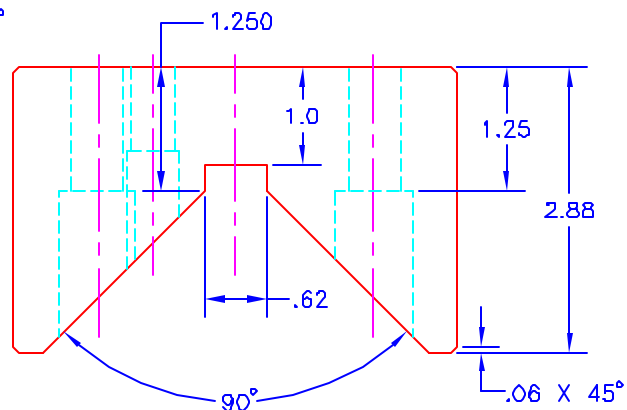
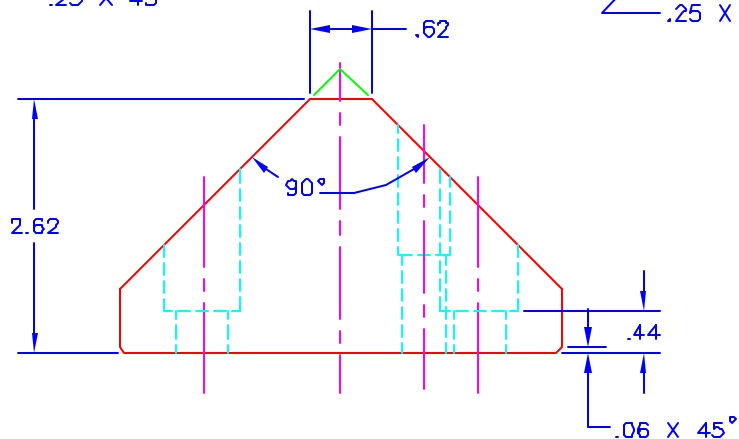
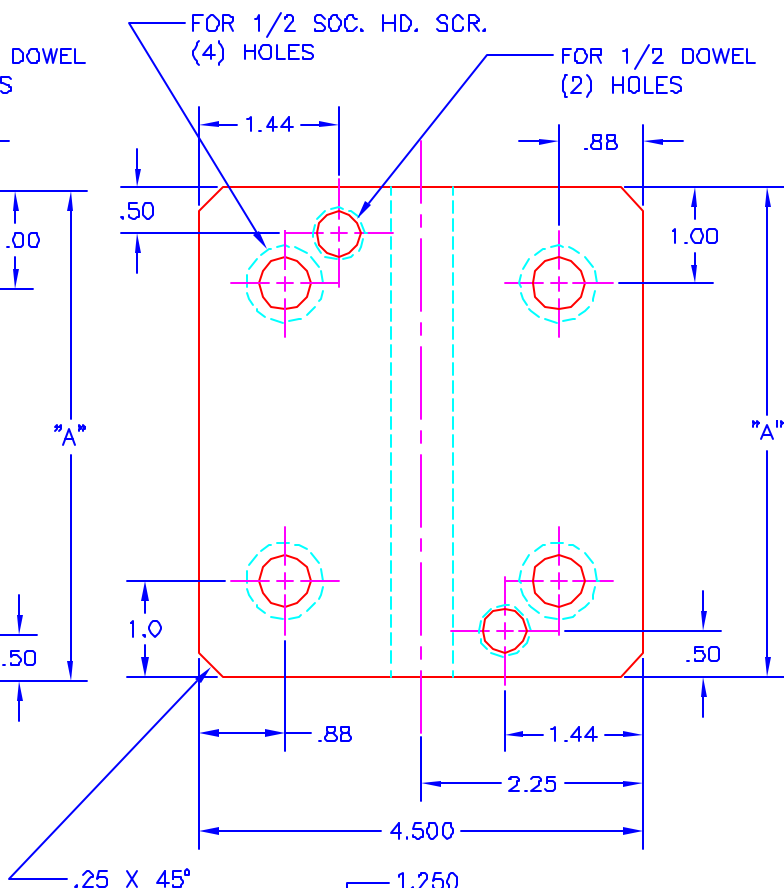
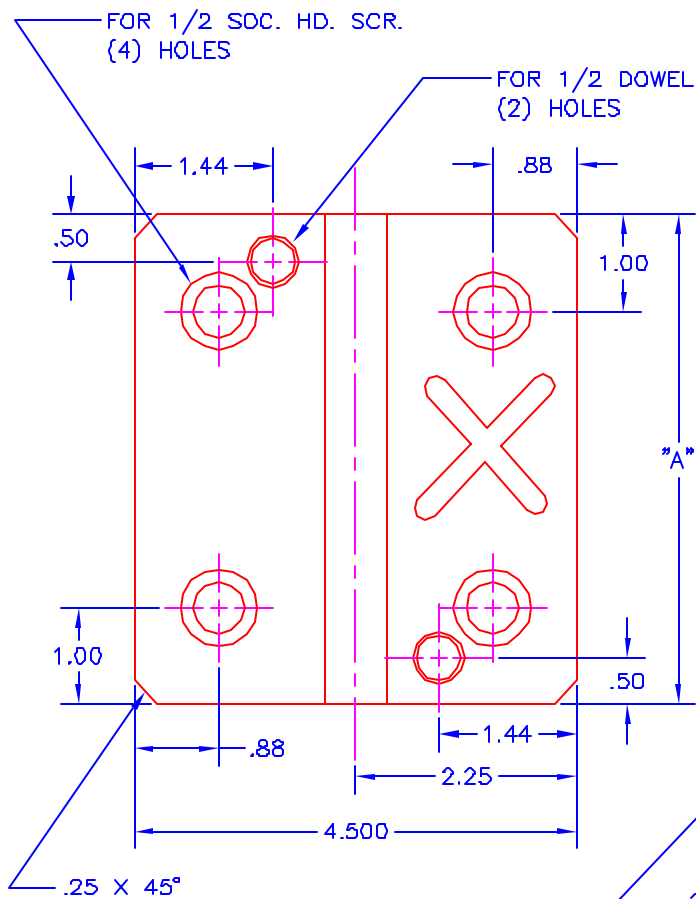
Ø OF PART



JOLICO NO.	FORD REF. NO.
J-23202	DX7-14-1101

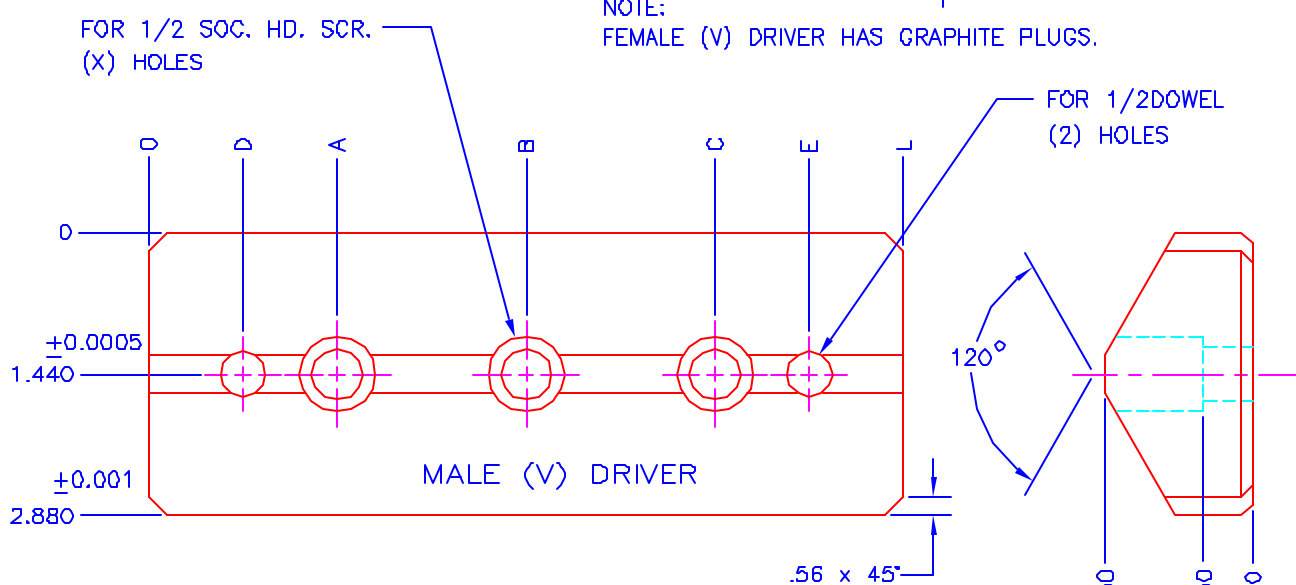
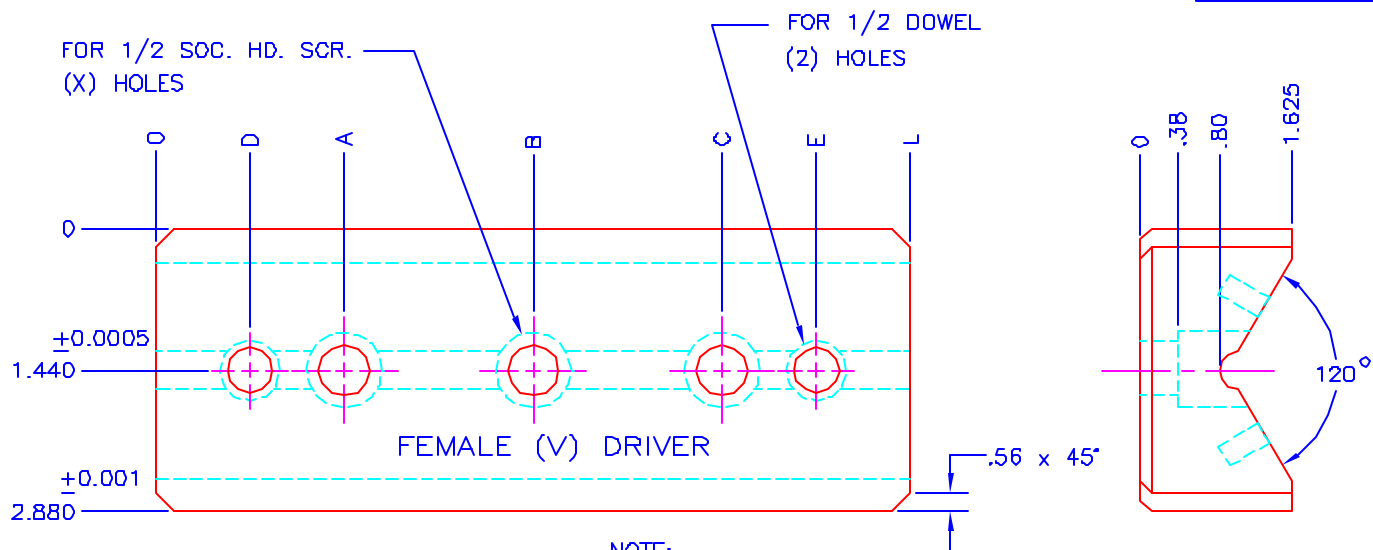
EXAMPLE FOR ORDERING J-23202-"A"
NOTE: "A" DIM. IN .5 INCREMENTS
"A" DIM. 3.0 MIN. AND 8.0 MAX.

MATERIAL: AISI-4140
HEAT TREAT AND CASE HARDEN
Rc 58-62

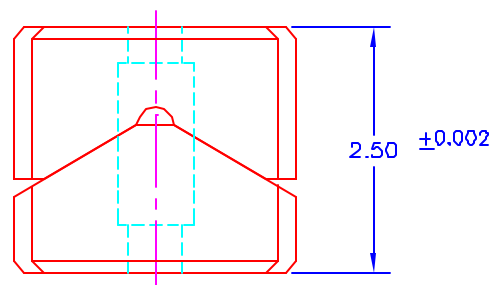


"V" BLOCK AERIAL CAM DRIVER SETS

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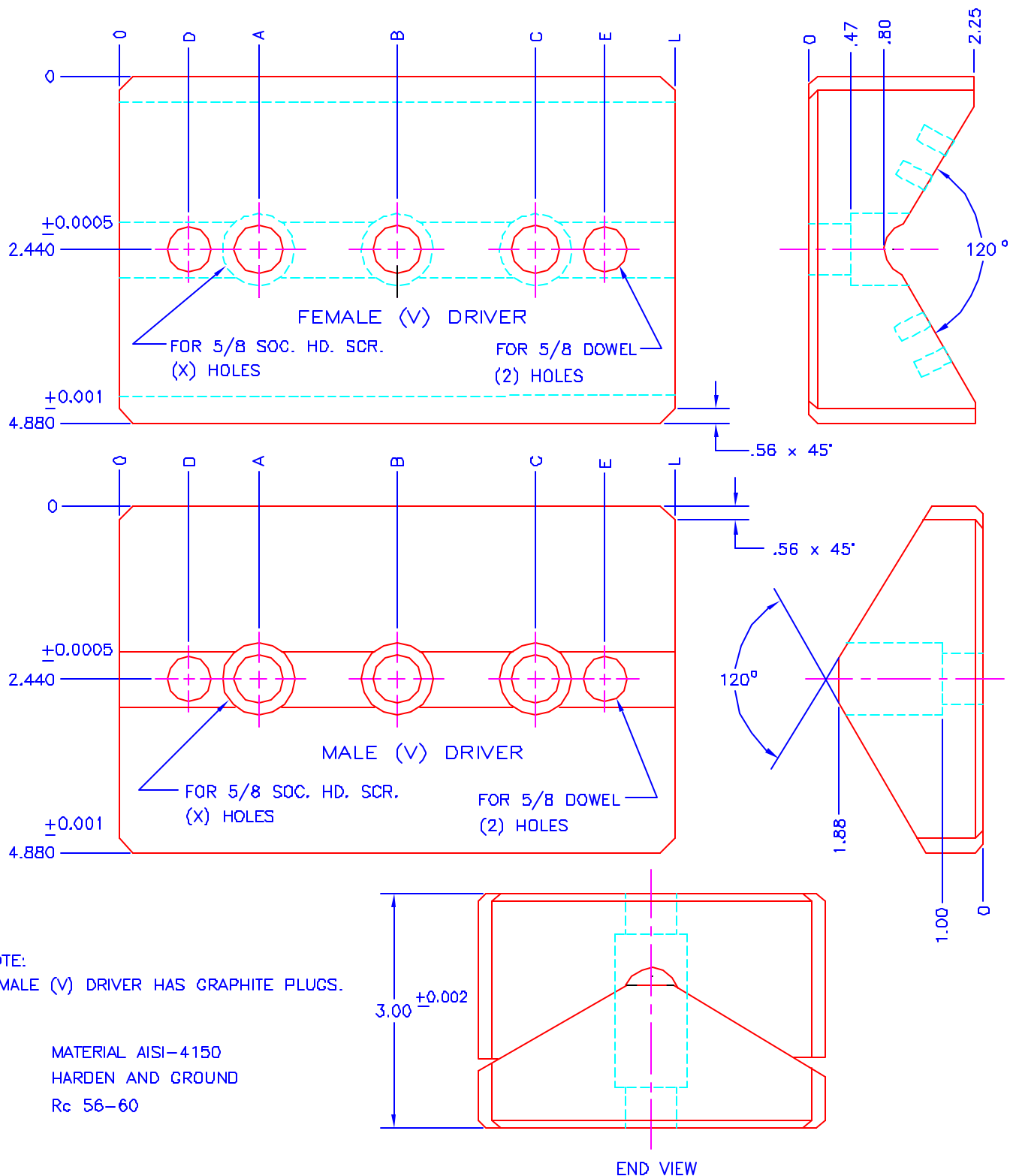
MATERIAL AISI-4150
HARDEN AND GROUND
Rc 56-60



END VIEW

JOLICO NO.	FORD REF. NO.	L	X	A	B	C	D	E
J-23340	DX7-14-1320	6.0	2	1.75		4.25	.75	5.25
J-23341	DX7-14-1321	8.0	2	2.00		6.00	1.00	7.00
J-23342	DX7-14-1322	10.0	3	2.00	5.00	8.00	1.00	9.00
J-23343	DX7-14-1323	12.0	3	2.00	6.00	10.00	1.00	11.00

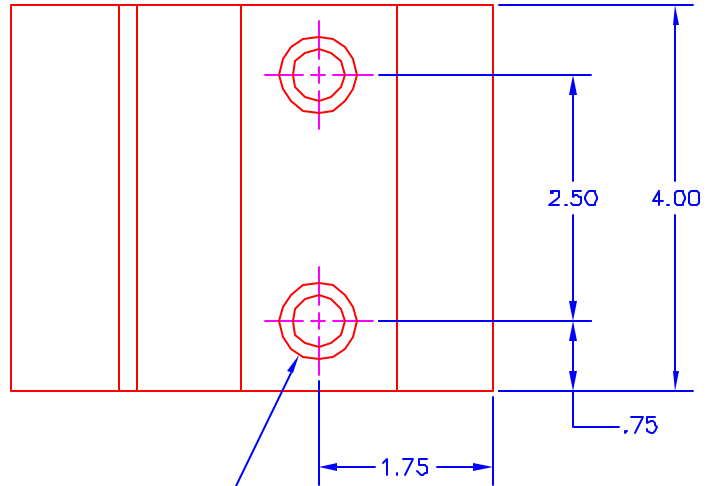
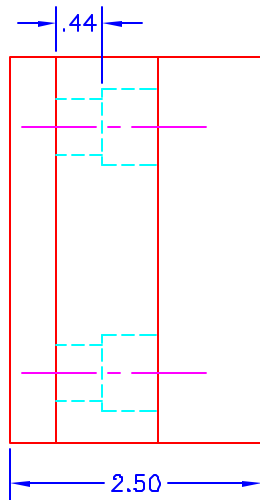
"V" BLOCK AERIAL CAM DRIVER SETS



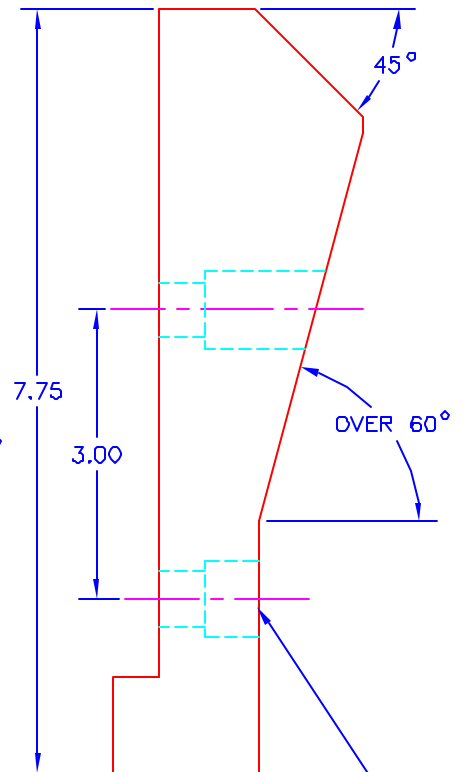
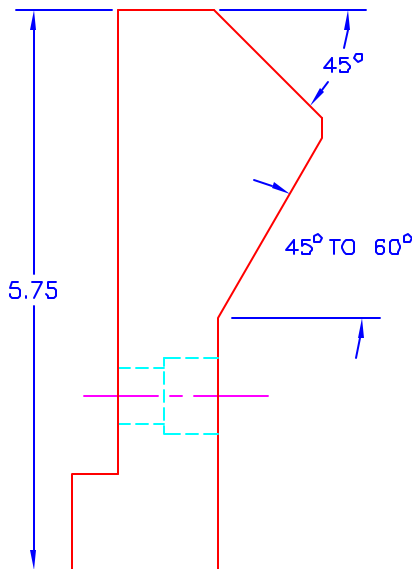
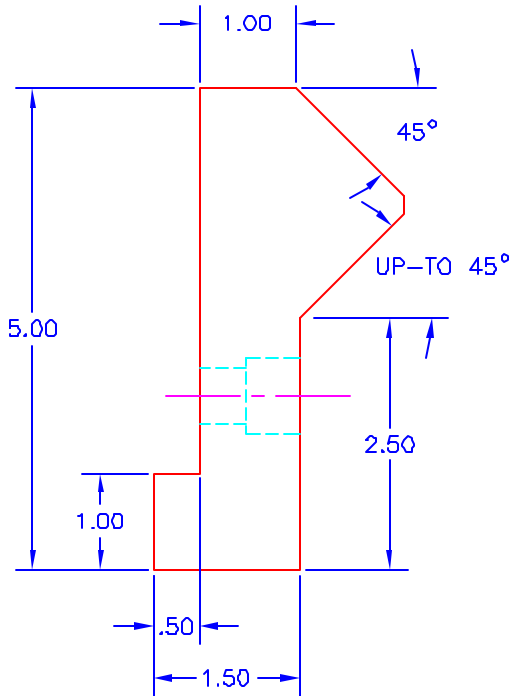
JOLICO NO.	FORD REF. NO.	L	X	A	B	C	D	E
J-23350	DX7-14-1420	6.0	2	1.75		4.25	.75	5.25
J-23351	DX7-14-1421	8.0	2	2.00		6.00	1.00	7.00
J-23352	DX7-14-1422	10.0	3	2.00	5.00	8.00	1.00	9.00
J-23353	DX7-14-1423	12.0	3	2.00	6.00	10.00	1.00	11.00

POSITIVE RETURN DRIVER PLATE

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FOR 1/2 SOC. HD. CAP SCR.
(2) HOLES



FOR 1/2 SOC. HD. CAP SCR.
(4) HOLES

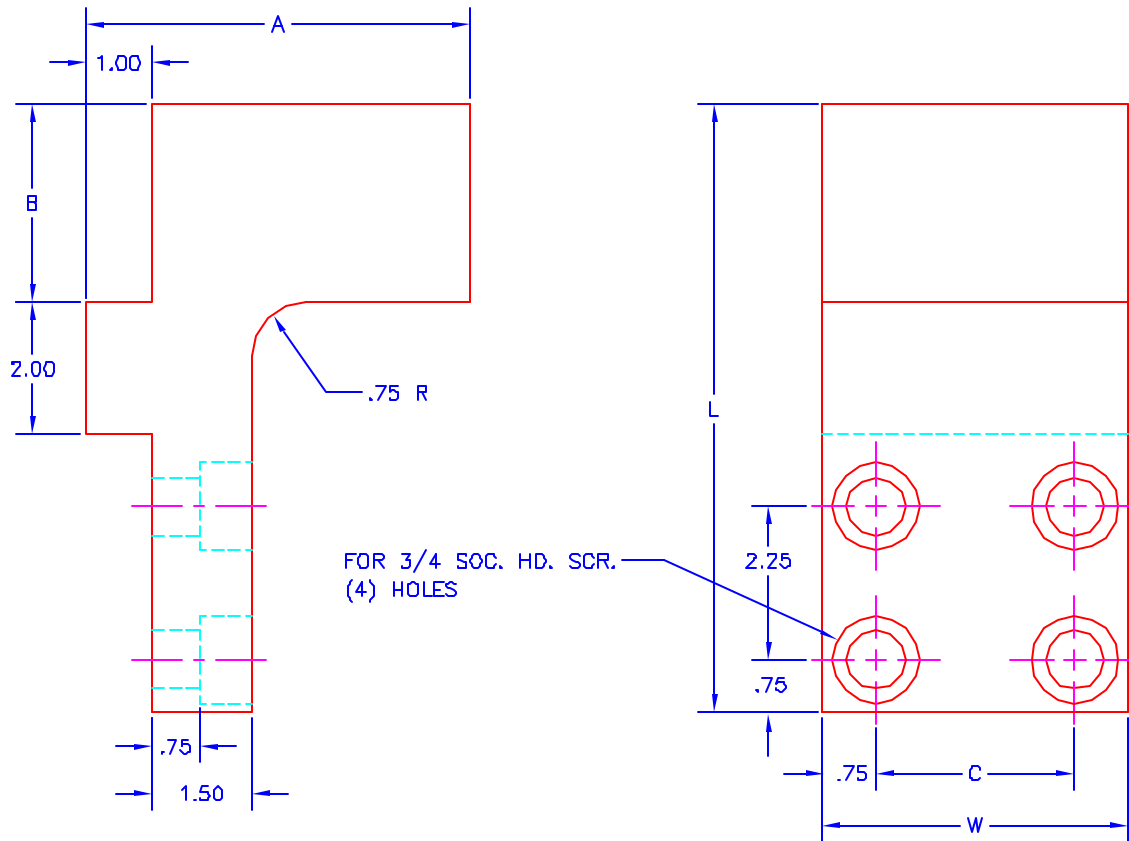
JOLICO NO.	J-42150
FORD NO.	DX7-16-0701

JOLICO NO.	J-42151
FORD NO.	DX7-16-0702

JOLICO NO.	J-42152
FORD NO.	DX7-16-0703

SLIDE RETURN BRACKET

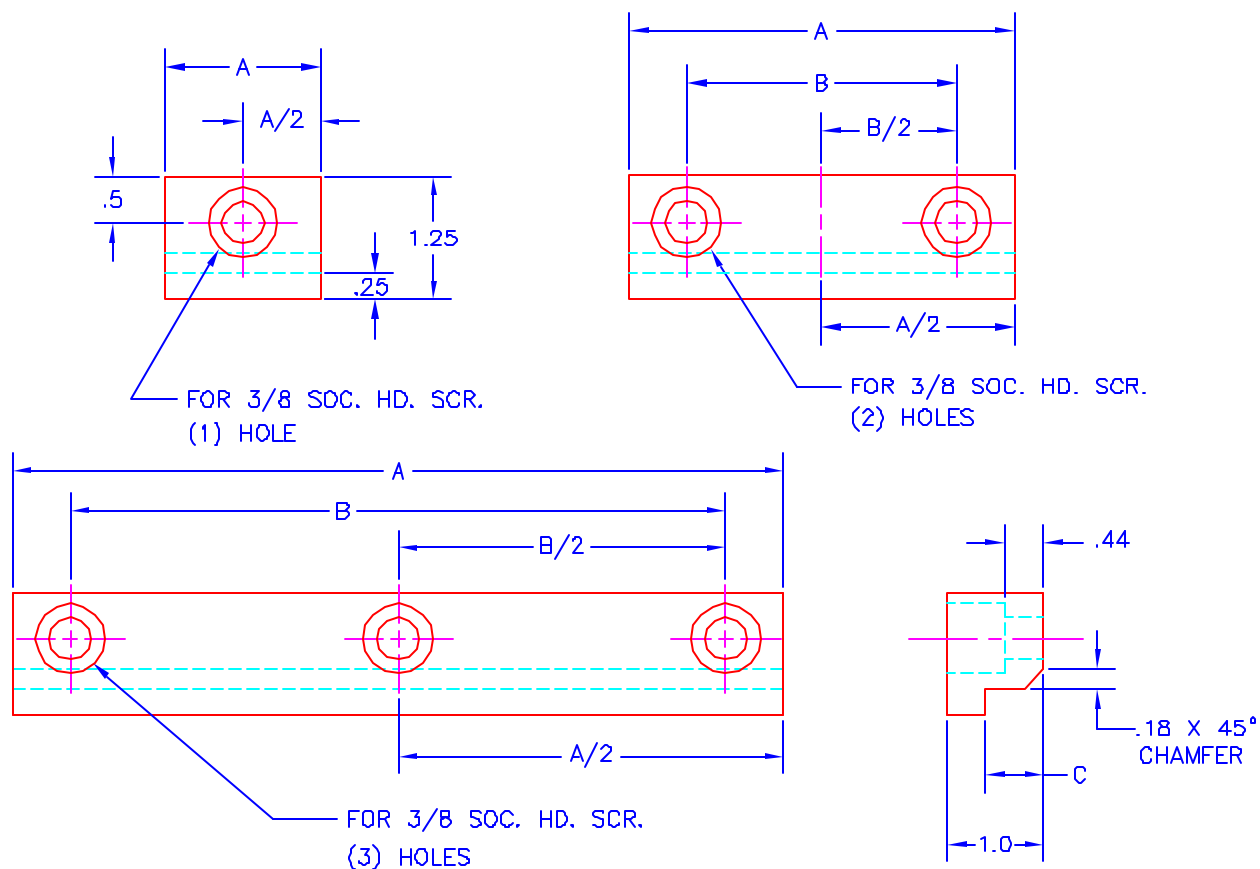
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JOLICO NO.	FORD REF. NO.	L	W	A	B	C	BORE SIZE
J-28766	DX7-22-2403	8.50	4.00	6.50	2.50	2.50	3.0
J-28767	DX7-22-2404	9.00	4.50	7.50	3.00	3.00	4.0
J-28768	DX7-22-2405	9.00	4.50	9.00	3.00	3.00	6.0

PAD RETAINER PLATES

THESE ITEMS CAN BE WELDED TO BOILER PLATE PADS
AND BY USE OF DIFFERENT KEEPER BLOCKS,
THE PAD TRAVEL CAN BE DETERMINED.

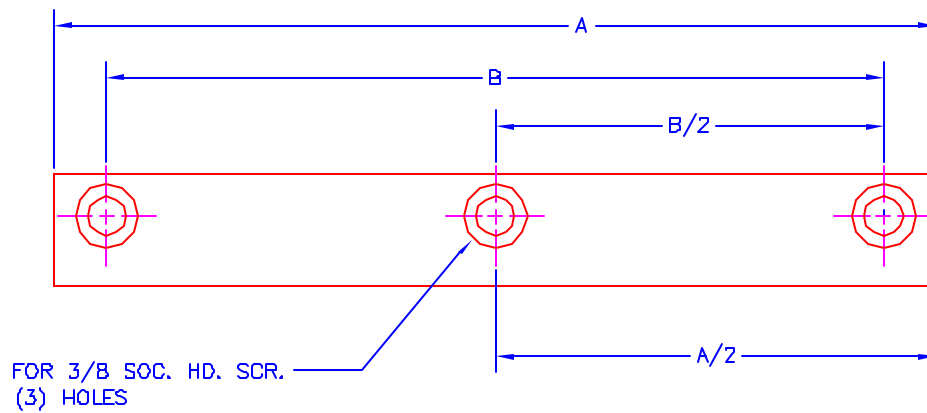
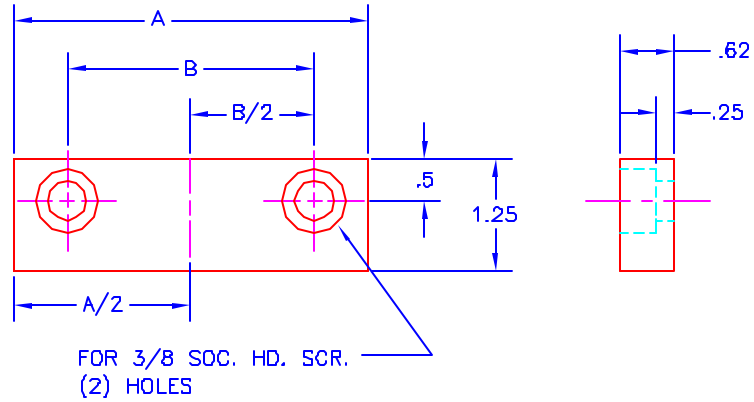


JOLICO NO.	FORD REF. NO.	A	B	C	NO. OF HOLES
J-34601	WDX14-2-0601	1.5	—	.50	1
J-34602	WDX14-2-0602	3.0	2.25	.50	2
J-34603	WDX14-2-0603	4.0	3.25	.50	2
J-34604	WDX14-2-0604	5.0	4.25	.50	2
J-34605	WDX14-2-0605	6.0	5.25	.50	2
J-34606	WDX14-2-0606	7.0	6.25	.50	3
J-34607	WDX14-2-0607	8.0	7.25	.50	3
J-34608	WDX14-2-0608	9.0	8.25	.50	3
J-34609	WDX14-2-0609	10.0	9.25	.50	3
J-34610	WDX14-2-0610	11.0	10.25	.50	3
J-34611	WDX14-2-0611	12.0	11.25	.50	3
J-34621	WDX14-2-0621	1.5	—	.68	1
J-34622	WDX14-2-0622	3.0	2.25	.68	2
J-34623	WDX14-2-0623	4.0	3.25	.68	2
J-34624	WDX14-2-0624	5.0	4.25	.68	2
J-34625	WDX14-2-0625	6.0	5.25	.68	2
J-34626	WDX14-2-0626	7.0	6.25	.68	3
J-34627	WDX14-2-0627	8.0	7.25	.68	3
J-34628	WDX14-2-0628	9.0	8.25	.68	3
J-34629	WDX14-2-0629	10.0	9.25	.68	3
J-34630	WDX14-2-0630	11.0	10.25	.68	3
J-34631	WDX14-2-0631	12.0	11.25	.68	3

PAD RETAINER PLATES

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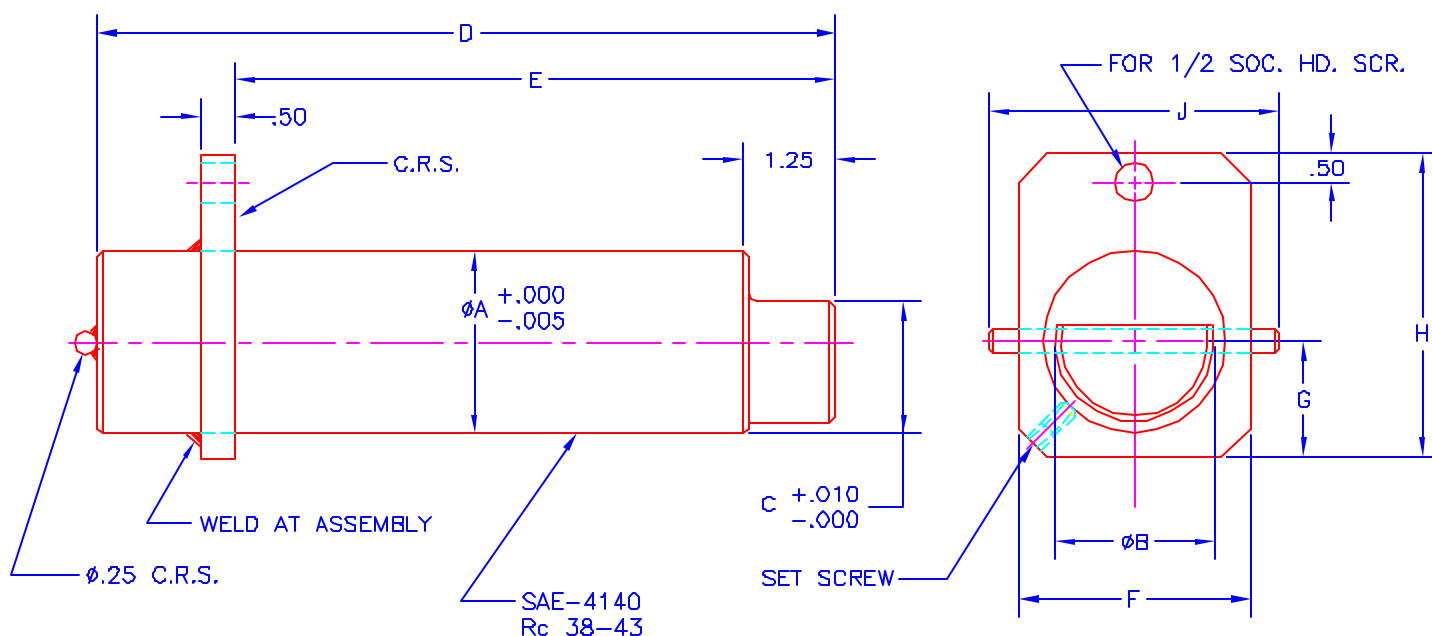
THESE DETAILS ARE WELDED TO BOILER PLATE PADS,
FOR USE WITH KEEPER BLOCKS.



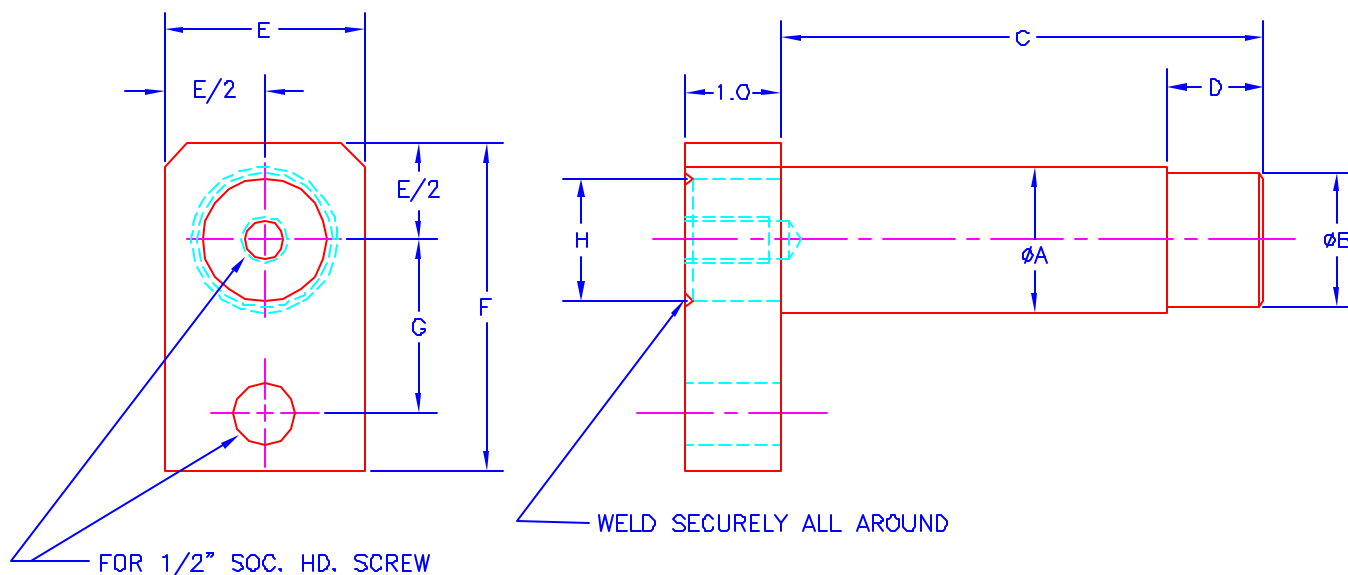
JOLICO NO.	FORD REF. NO.	A	B	X HOLES
J-34701	DX14-2-0701	3.0	2.25	2
J-34702	DX14-2-0702	4.0	3.25	2
J-34703	DX14-2-0703	5.0	4.25	2
J-34704	DX14-2-0704	6.0	5.25	2
J-34705	DX14-2-0705	7.0	6.25	3
J-34706	DX14-2-0706	8.0	7.25	3
J-34707	DX14-2-0707	9.0	8.25	3
J-34708	DX14-2-0708	10.0	9.25	3
J-34709	DX14-2-0709	11.0	10.25	3
J-34710	DX14-2-0710	12.0	11.25	3

KEEPER PINS

THESE ITEMS ARE USED IN PLACE OF KEEPER BLOCKS TO RETAINER PAD.
THEY ALSO PERMIT A PAD TO BE LOCKED IN THE UP POSITION.



JOLICO NO.	REF. NO.	A	B	C	D	E	F	G	H	J
J-61920	KP-15008	1.50	1.38	1.12	8.00	4.88 TO 6.00	2.00	1.00	3.25	3.00
J-61921	KP-22508	2.25	2.00	1.69	8.00	6.38 TO 6.50	2.75	1.38	4.00	3.75
J-61922	KP-22510	2.25	2.00	1.69	10.00	6.50 TO 8.50	2.75	1.38	4.00	3.75
J-61923	KP-30009	3.00	2.75	2.50	9.00	6.88 TO 7.75	3.50	1.75	4.75	4.50
J-61924	KP-30011	3.00	2.75	2.50	11.00	7.50 TO 9.50	3.50	1.75	4.75	4.50



JOLICO NO.	OLD "J" NO.	DIE SIZE	A	B	C	D	E	F	G	H
J-61971	J-9701	UP TO 60	1.50	1.38	4.938	1.0	2.0	3.38	1.75	1.125
J-61972	J-9702	61 TO 82	2.25	2.12	5.938	1.0	2.5	3.88	2.00	1.500
J-61973	J-9703	83 TO UP	3.00	2.88	7.938	1.0	3.0	4.38	2.25	2.000

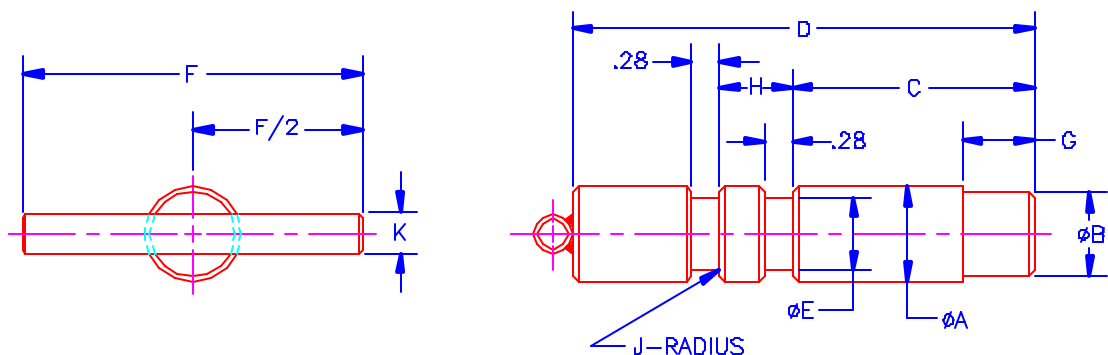
NOTE:

WILL QUOTE AND MANUFACTURE ANY SPECIALS UPON CUSTOMER'S REQUEST.

PAD RETAINER PINS

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THESE ITEMS ARE USED IN PLACE OF KEEPER BLOCKS TO RETAINER PAD.
THEY ALSO PERMIT A PAD TO BE LOCKED IN THE UP POSITION.



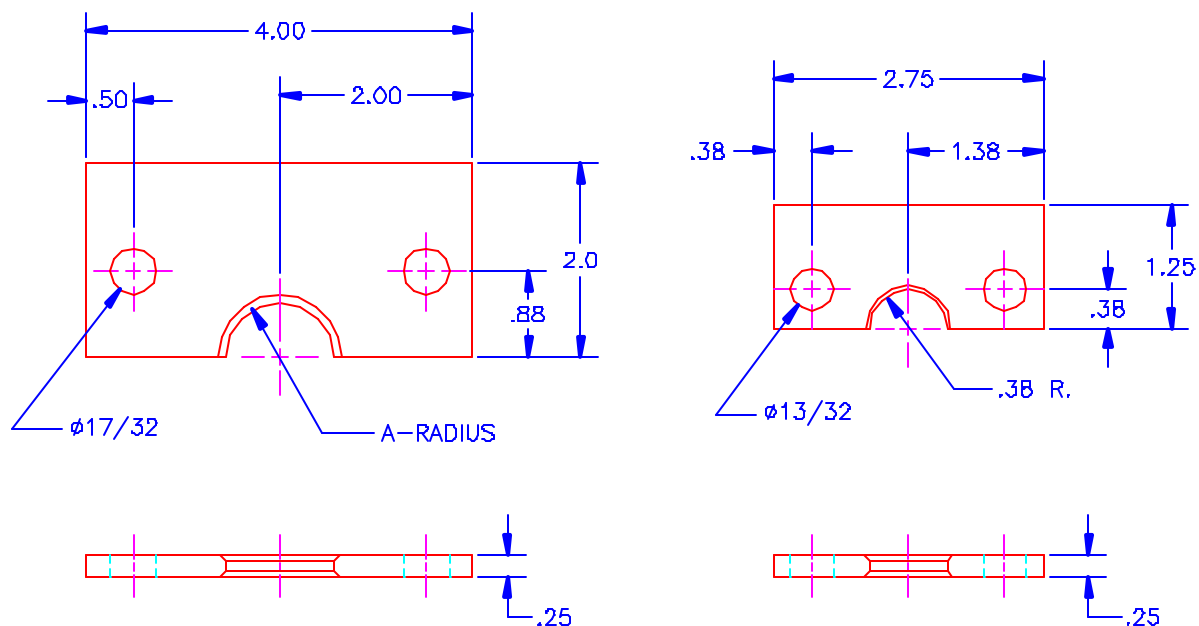
NOTE:

WILL QUOTE AND MANUFACTURE ANY SPECIALS UPON CUSTOMER'S REQUEST.

JOLICO NO.	REF. NO.	PAD SIZE	A	B	C	D	E	F	G	H	J	K
J-61904	DB3-0104	SMALL	1.00	.88	2.50	4.75	.75	3.50	.75	.75	.06	.38
J-61905	DB3-0105	MEDIUM	1.50	1.38	4.44	7.00	1.00	4.00	1.00	1.00	.12	.50
J-61906	DB3-0106	LARGE	2.25	2.12	4.94	7.50	1.75	4.75	1.00	1.00	.12	.50

PAD RETAINER PLATES

THESE DETAILS ARE USED TO RETAIN THE PINS ABOVE.

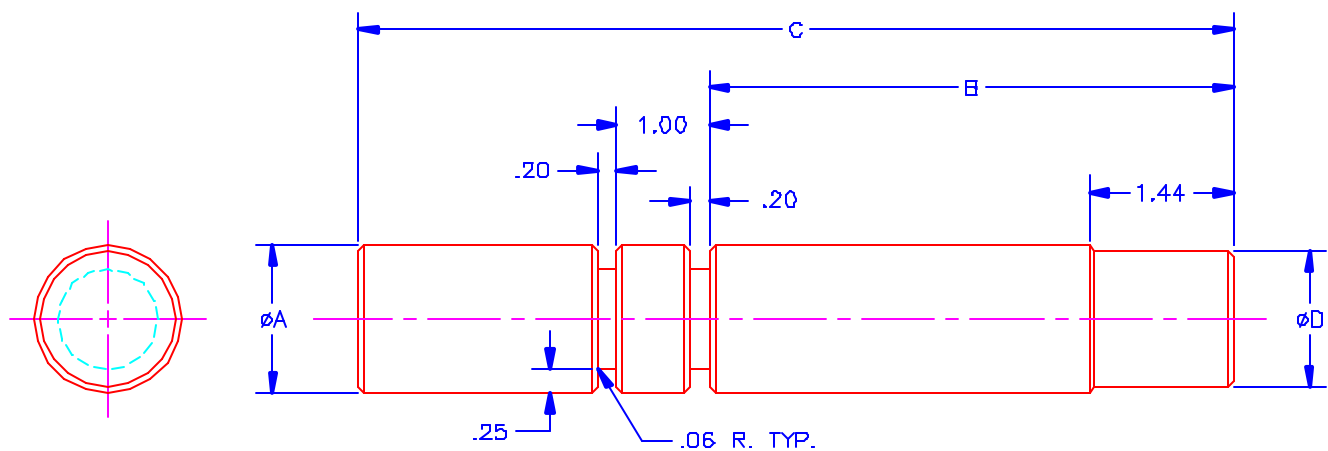


JOLICO NO.	REF. NO.	PIN SIZE	A
J-61908	DB3-0108	1.50 DIA.	.56
J-61909	DB3-0109	2.25 DIA.	.94

JOLICO NO.	REF. NO.	PIN SIZE
J-61910	DB3-0110	1.00 DIA.

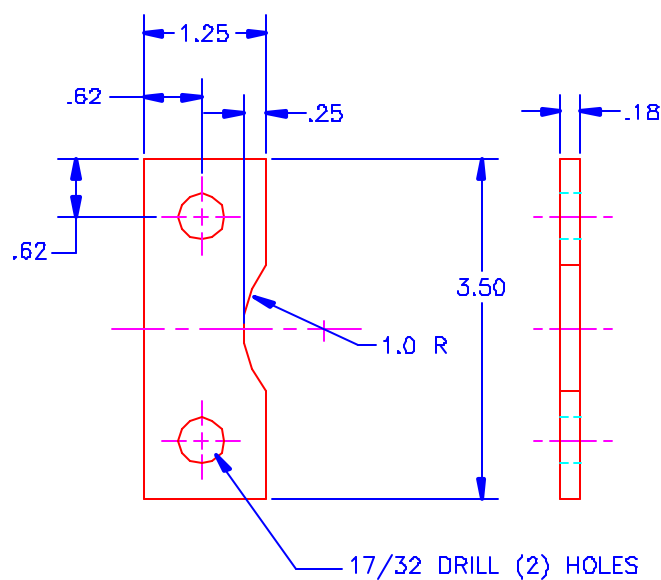
STANDARD RETAINER PINS

THESE ITEMS ARE USED IN PLACE OF KEEPER BLOCKS TO RETAIN PADS.
THEY ALSO PERMIT A PAD TO BE LOCKED IN THE UP POSITION.



JOLICO NO.	REF. NO.	A	B	C	D
J-61980	M-1060-100	1.50	5.38	9.0	1.38
J-61981	M-1060-101	2.00	6.38	10.0	1.88
J-61982	M-1060-102	2.00	9.38	13.0	1.88
J-61983	M-1060-103	2.50	6.38	10.0	2.38
J-61984	M-1060-104	2.50	7.38	11.0	2.38
J-61985	M-1060-105	2.50	9.38	13.0	2.38

RETAINER PLATE

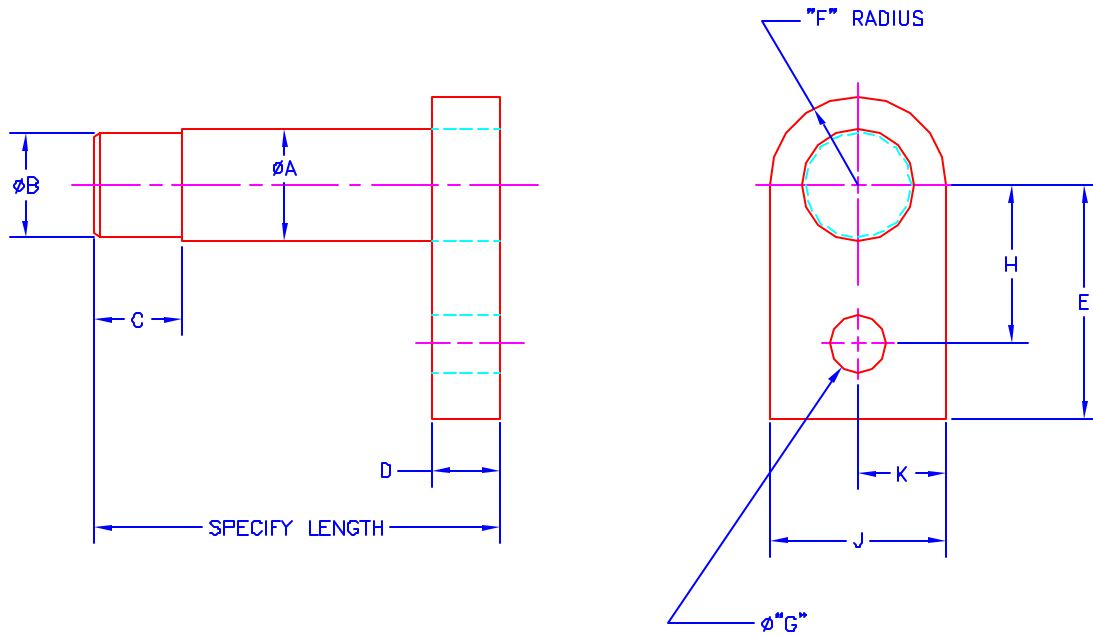


JOLICO NO.	REF. NO.
J-61987	M-1309

PLATE ASSEMBLIES

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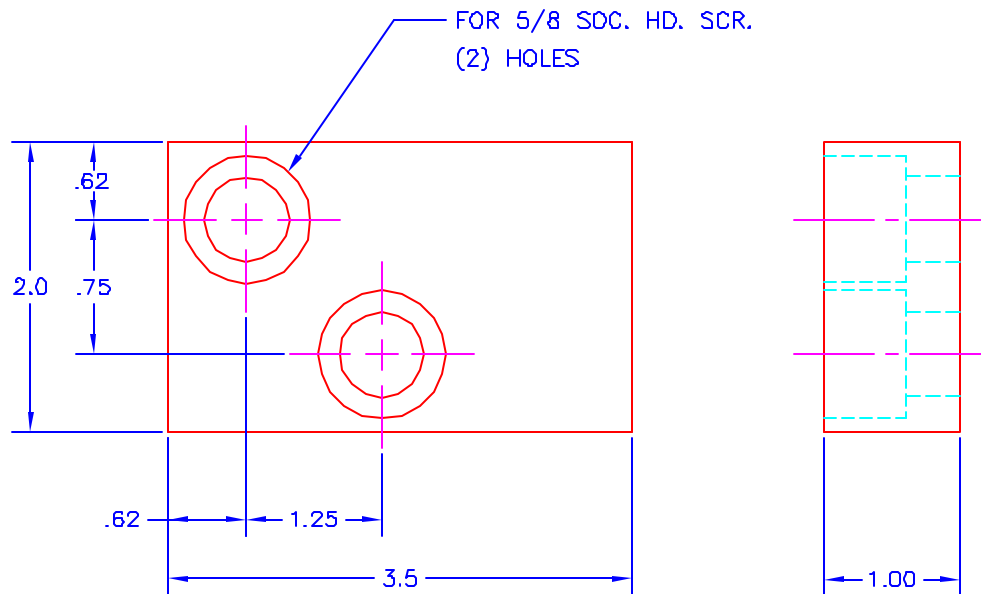
THESE DETAILS PERMIT FLOATERS TO BE RETAINED WITHOUT
HAVING TO GO TO UNUSUAL PAD CONDITIONS.



JOILCO NO.	REF. NO.	A	B	C	D	E	F	G	H	J	K
J-61950	0634450	1.25	1.18	1.00	.75	2.62	1.00	.65	1.75	2.00	1.00
J-61954	0634454	2.00	1.93	1.50	1.00	3.00	1.50	.78	2.25	3.00	1.50
J-61958	0634458	3.00	2.93	2.25	1.00	4.25	2.25	1.03	3.12	4.50	2.25

LOWER DIE FLOATER STOP

THIS PLATE PERMITS ADJUSTMENT OF THE
FLOATER, BY MEANS OF SHIMMING

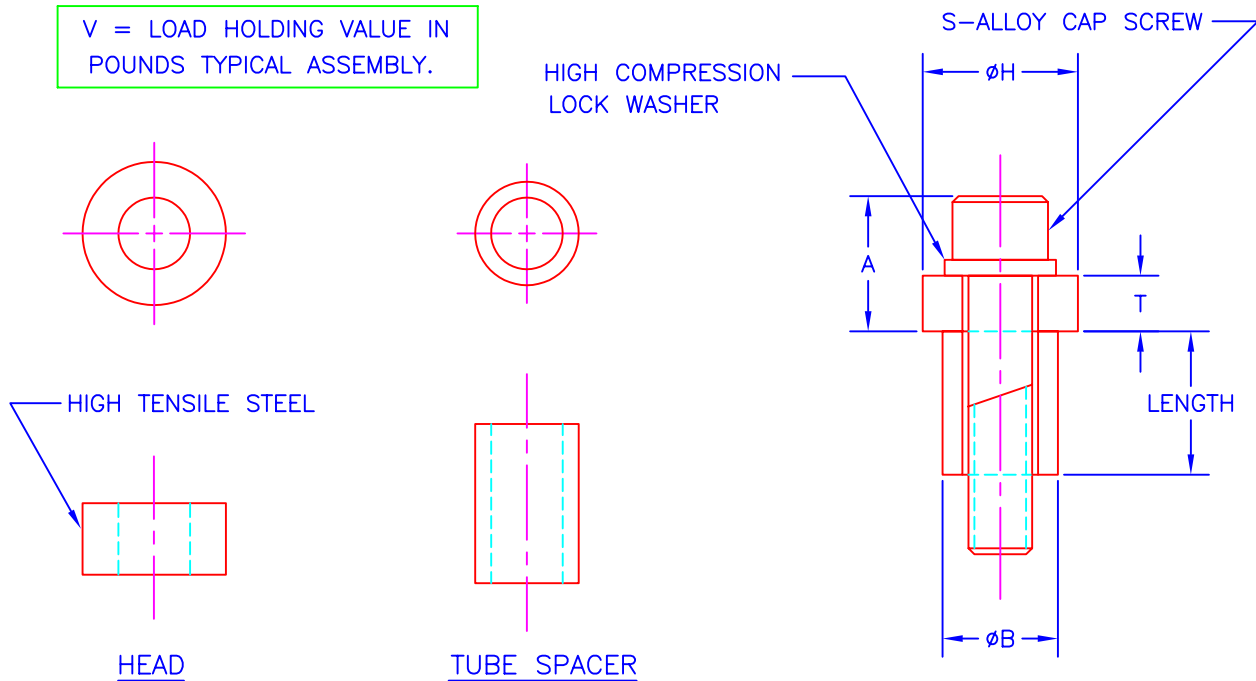


JOLICO NO.	REF. NO.
J-61991	0695391

TUBULAR DIE PAD RETAINERS

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THESE DETAILS WITH THEIR COMPACT SIZE WERE DESIGNED
FOR USE IN DIES WHERE SPACE IS OF THE UTMOST IMPORTANCE.



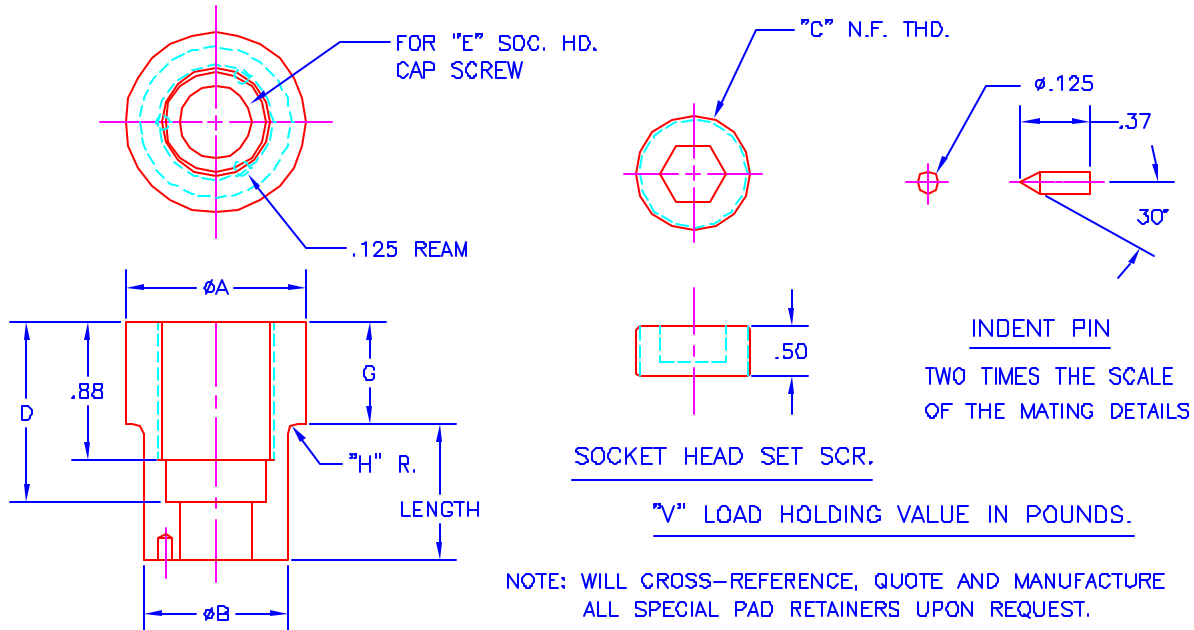
TUBE SPACER, HEAD, LOCK WASHER AND CAP SCREW INCLUDED IN ASSEMBLY.

L E N G T H	A = .641	A = .719	A = 1.125	A = 1.281	A = 1.501	A = 1.938
	B = .56	B = .62	B = .75	B = .87	B = 1.00	B = 1.25
	H = .812	H = .875	H = 1.125	H = 1.250	H = 1.375	H = 1.750
	S = 5/16-18	S = 3/8-16	S = 1/2-13	S = 5/8-11	S = 3/4-10	S = 1"-8
	T = .250	T = .250	T = .500	T = .500	T = .563	T = .688
	V = 900	V = 1,400	V = 2,600	V = 4,000	V = 5,800	V = 10,300
1.00	J-51110	J-51210	J-51310	J-51410	J-51510	J-51610
1.25	J-51111	J-51211	J-51311	J-51411	J-51511	J-51611
1.50	J-51112	J-51212	J-51312	J-51412	J-51512	J-51612
1.75	J-51113	J-51213	J-51313	J-51413	J-51513	J-51613
2.00	J-51120	J-51220	J-51320	J-51420	J-51520	J-51620
2.25	J-51121	J-51221	J-51321	J-51421	J-51521	J-51621
2.50	J-51122	J-51222	J-51322	J-51422	J-51522	J-51622
2.75		J-51223	J-51323	J-51423	J-51523	J-51623
3.00		J-51230	J-51330	J-51430	J-51530	J-51630
3.25		J-51231	J-51331	J-51431	J-51531	J-51631
3.50		J-51232	J-51332	J-51432	J-51532	J-51632
3.75		J-51233	J-51333	J-51433	J-51533	J-51633
4.00		J-51240	J-51340	J-51440	J-51540	J-51640
4.50		J-51242	J-51342	J-51442	J-51542	J-51642
5.00		J-51250	J-51350	J-51450	J-51550	J-51650
5.50		J-51252	J-51352	J-51452	J-51552	J-51652
6.00			J-51360	J-51460	J-51560	

ADD THE SUFFIX C FOR USE IN CAST IRON OR S FOR STEEL, TO ASSURE
PROPER SCREW LENGTH FOR THREADING INTO DIE. EXAMPLE J-51420-S

DIE PAD RETAINERS

THESE DETAILS HAVE THE ADVANTAGE OF RETAINING A PAD,
AND NOT TAKING UP A LOT OF SPACE.



INDENT PINS, SOCKET SET SCREW AND SOCKET HEAD CAP SCREW INCLUDED IN ASSEMBLY.

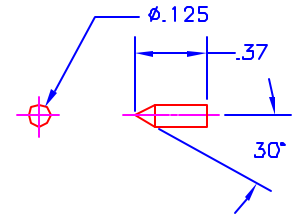
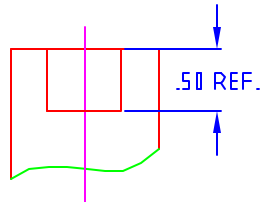
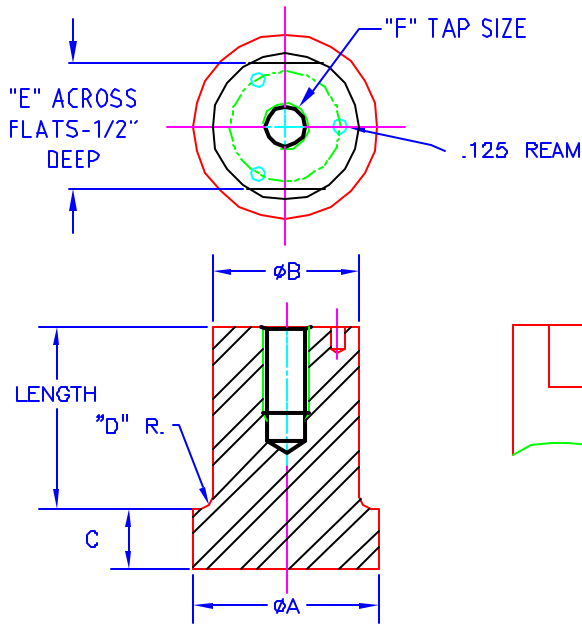
L E N G T H	A = 1.06	A = 1.25	A = 1.62	A = 1.87	A = 2.00	A = 2.75
	B = .81	B = 1.00	B = 1.25	B = 1.50	B = 1.62	B = 2.25
	C = 5/8-18	C = 3/4-16	C = 7/8-14	C=1 1/8-12	C=1 1/4-12	C=1 3/4-12
	D = 1.00	D = 1.12	D = 1.12	D = 1.25	D = 1.38	D = 1.62
	E = 5/16-18	E = 3/8-16	E = 1/2-13	E = 5/8-11	E = 3/4-10	E = 1-8
	G = .38	G = .50	G = .50	G = .50	G = .50	G = .50
	H = .03	H = .03	H = .06	H = .06	H = .06	H = .06
	V = 900	V = 1,400	V = 2,600	V = 4,000	V = 5,800	V = 10,000
1.00	J-51010 *	J-61010	J-61110	J-61210		
1.25	J-51011 *	J-61011	J-61111	J-61211	J-61311	
1.50	J-51012 *	J-61012	J-61112	J-61212	J-61312	J-61412
1.75	J-51013 *	J-61013	J-61113	J-61213	J-61313	J-61413
2.00	J-51020 *	J-61020	J-61120	J-61220	J-61320	J-61420
2.25	J-51021 *	J-61021	J-61121	J-61221	J-61321	J-61421
2.50	J-51022 *	J-61022	J-61122	J-61222	J-61322	J-61422
2.75	J-51023 *	J-61023	J-61123	J-61223	J-61323	J-61423
3.00	J-51030 *	J-61030	J-61130	J-61230	J-61330	J-61430
3.25	J-51031 *	J-61031	J-61131	J-61231	J-61331	J-61431
3.50	J-51032 *	J-61032	J-61132	J-61232	J-61332	J-61432
3.75		J-61033	J-61133	J-61233	J-61333	J-61433
4.00		J-61040	J-61140	J-61240	J-61340	J-61440
4.50		J-61042	J-61142	J-61242	J-61342	J-61442
5.00		J-61050	J-61150	J-61250	J-61350	J-61450
5.50		J-61052	J-61152	J-61252	J-61352	J-61452
6.00		J-61060	J-61160	J-61260	J-61360	J-61460

ADD THE SUFFIX C FOR USE IN CAST IRON OR S FOR STEEL, TO ASSURE
PROPER SCREW LENGTH FOR THREADING INTO DIE. EXAMPLE J-61313-S

* INDENT PINS NOT INCLUDED WITH ASSEMBLY.

REVERSED DIE PAD RETAINERS

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UNCONTROLLED



INDENT PIN

TWO TIMES THE SCALE
OF THE MATING DETAILS

"V" LOAD HOLDING VALUE IN POUNDS.

NOTE: WILL CROSS-REFERENCE, QUOTE AND MANUFACTURE
ALL SPECIAL PAD RETAINERS UPON REQUEST.

INDENT PINS, INCLUDED IN ASSEMBLY.

L E N G T H	A = 1.06	A = 1.25	A = 1.62	A = 1.87	A = 2.00
	B = .81	B = 1.00	B = 1.25	B = 1.50	B = 1.62
	C = 0.38	C = 0.50	C = 0.50	C=0.50	C=0.50
	D = 0.03	D = 0.03	D = 0.06	D = 0.06	D = 0.06
	E = 11/16	E = 7/8	E = 1-1/8	E = 1-1/4	E = 1-3/8
	F = 5/16-18	F = 3/8-16	G = 1/2-13	F = 5/8-11	F = 3/4-10
	V = 900	V = 1,400	V = 2,600	V = 4,000	V = 5,800
1.00	J-51010-R *	J-61010-R			
1.25	J-51011-R *	J-61011-R	J-61111-R		
1.50	J-51012-R *	J-61012-R	J-61112-R	J-61212-R	
1.75	J-51013-R *	J-61013-R	J-61113-R	J-61213-R	J-61313-R
2.00	J-51020-R *	J-61020-R	J-61120-R	J-61220-R	J-61320-R
2.25	J-51021-R *	J-61021-R	J-61121-R	J-61221-R	J-61321-R
2.50	J-51022-R *	J-61022-R	J-61122-R	J-61222-R	J-61322-R
2.75	J-51023-R *	J-61023-R	J-61123-R	J-61223-R	J-61323-R
3.00	J-51030-R *	J-61030-R	J-61130-R	J-61230-R	J-61330-R
3.25	J-51031-R *	J-61031-R	J-61131-R	J-61231-R	J-61331-R
3.50	J-51032-R *	J-61032-R	J-61132-R	J-61232-R	J-61332-R
3.75		J-61033-R	J-61133-R	J-61233-R	J-61333-R
4.00		J-61040-R	J-61140-R	J-61240-R	J-61340-R
4.50		J-61042-R	J-61142-R	J-61242-R	J-61342-R
5.00		J-61050-R	J-61150-R	J-61250-R	J-61350-R
5.50		J-61052-R	J-61152-R	J-61252-R	J-61352-R
6.00		J-61060-R	J-61160-R	J-61260-R	J-61360-R

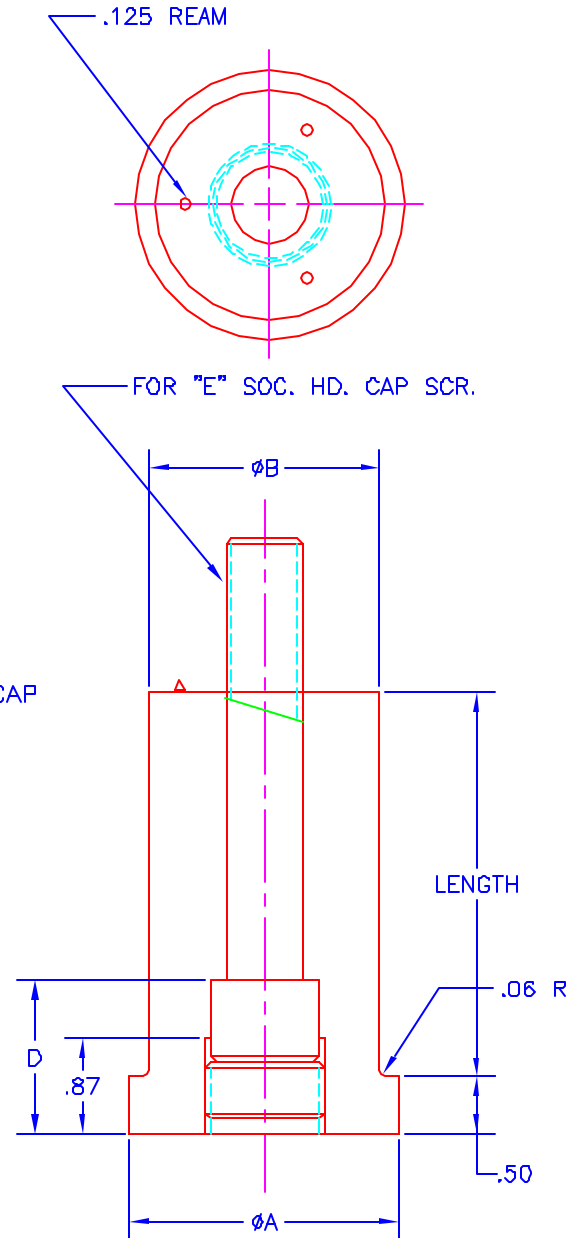
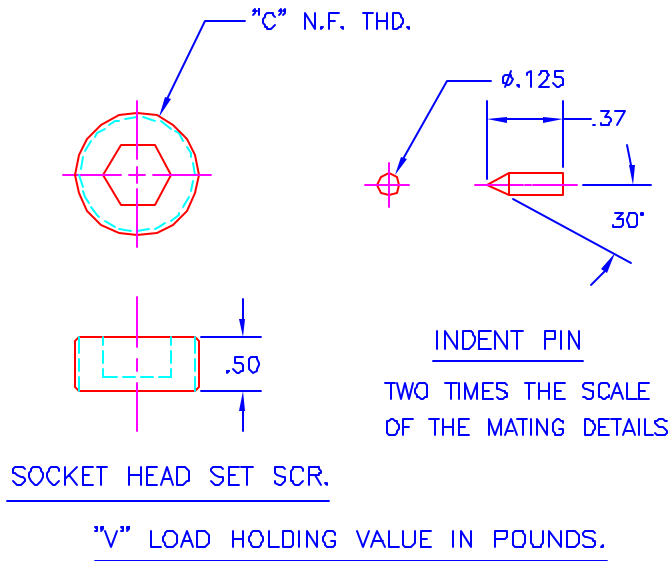
ORDER EXAMPLE J-61313-R

* INDENT PINS NOT INCLUDED WITH ASSEMBLY.

F-SERIES DIE PAD RETAINERS

PRINTED COPY IS
UNCONTROLLED

THESE DETAILS HAVE THE ADVANTAGE OF RETAINING A PAD,
AND NOT TAKING UP A LOT OF SPACE.

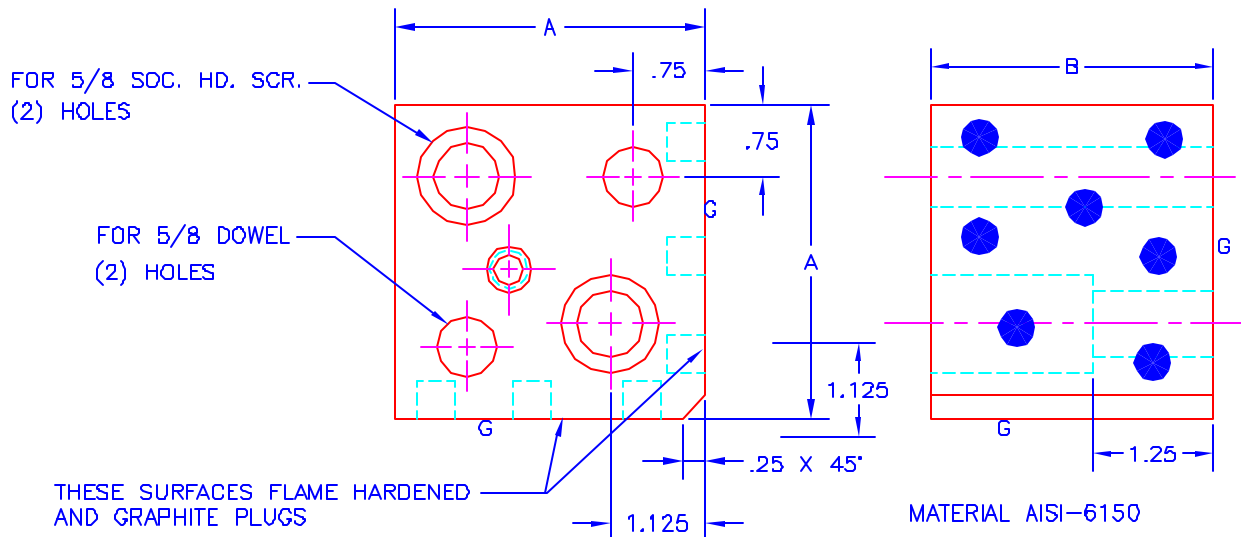


INDENT PINS, SOCKET SET SCREW AND SOCKET HEAD CAP
SCREW INCLUDED IN ASSEMBLY.

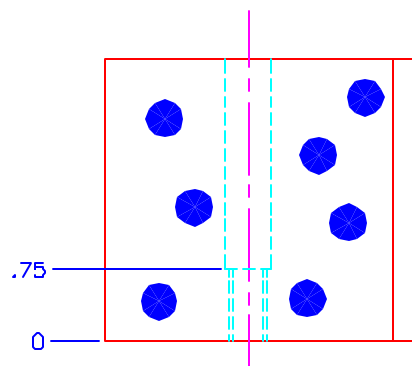
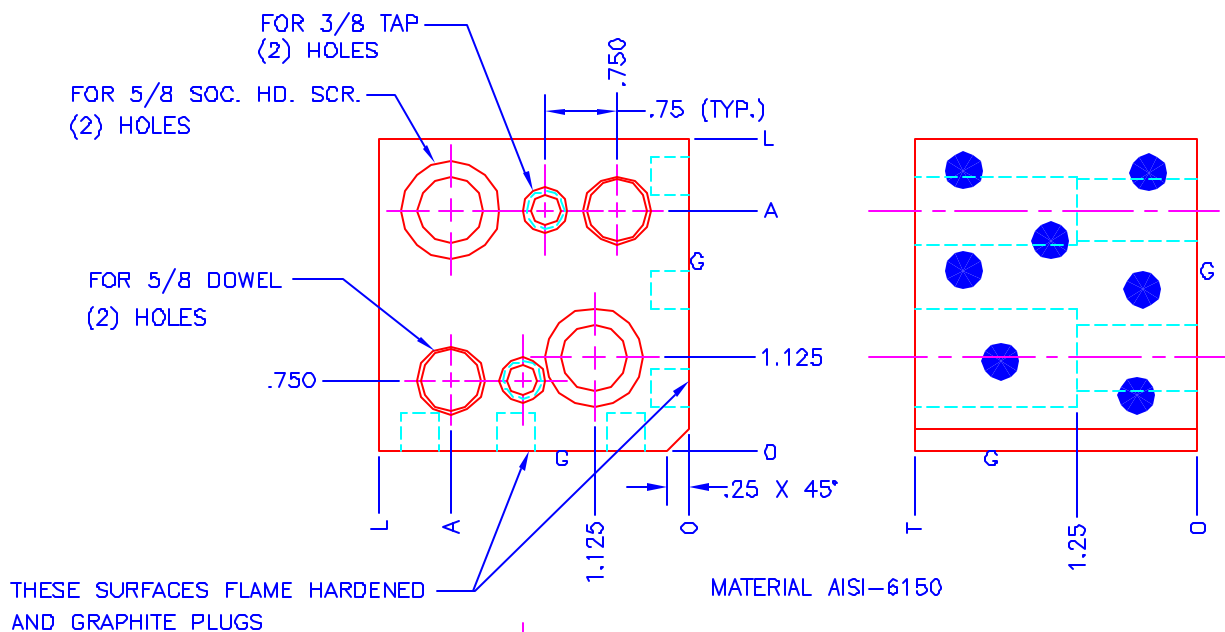
L	A = 1.875	A = 2.000	A = 2.750
E	B = 1.500	B = 1.625	B = 2.250
N	C = 7/8-14	C = 1 1/8-12	C = 1 1/4-12
G	D = 1 1/4	D = 1 1/4	D = 1 3/8
T	E = 1/2-13	E = 5/8-11	E = 3/4-10
H	V = 2,600	V = 4,000	V = 5,800
1.00	F-61210		
1.25	F-61211	F-61311	
1.50	F-61212	F-61312	F-61412
1.75	F-61213	F-61313	F-61413
2.00	F-61220	F-61320	F-61420
2.25	F-61221	F-61321	F-61421
2.50	F-61222	F-61322	F-61422
2.75	F-61223	F-61323	F-61423
3.00	F-61230	F-61330	F-61430
3.25	F-61231	F-61331	F-61431
3.50	F-61232	F-61332	F-61432
3.75	F-61233	F-61333	F-61433
4.00	F-61240	F-61340	F-61440
4.50	F-61242	F-61342	F-61442
5.00	F-61250	F-61350	F-61450
5.50	F-61252	F-61352	F-61452
6.00	F-61260	F-61360	F-61460

ADD THE SUFFIX C FOR USE IN CAST IRON OR S FOR STEEL, TO ASSURE
PROPER SCREW LENGTH FOR THREADING INTO DIE. EXAMPLE F-61420-S

SELF LUBE CORNER GUIDE BLOCKS



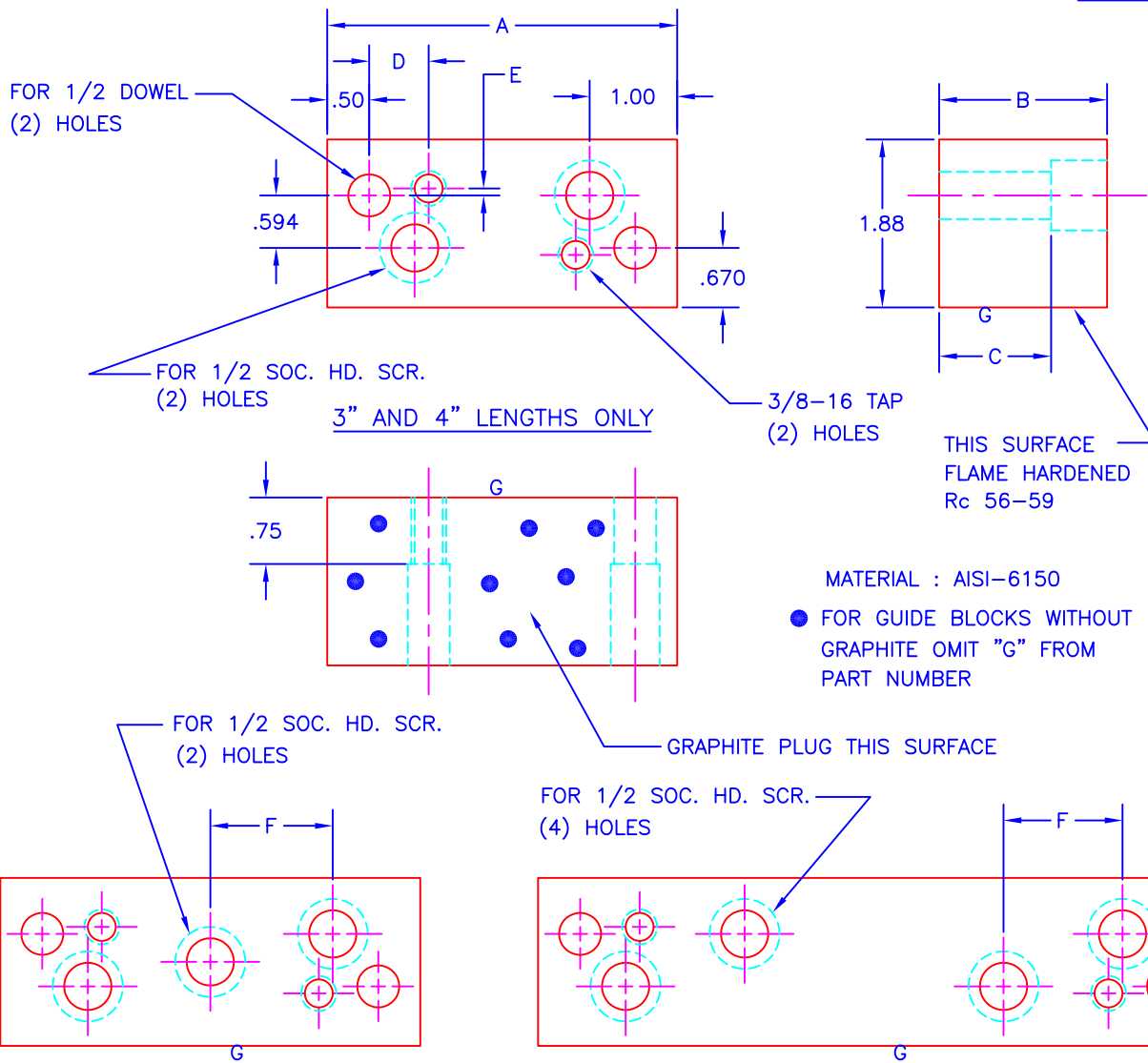
JOLICO NO.	REFERENCE NO.	A	B	JOLICO NO.	REFERENCE NO.	A	B
J-37170-G	DD2-0101-G	3.25	3	J-37175-G	DD2-0106-G	3.75	5
J-37171-G	DD2-0102-G		4	J-37176-G	DD2-0107-G	4.75	3
J-37172-G	DD2-0103-G		5	J-37177-G	DD2-0108-G		4
J-37173-G	DD2-0104-G	3.75	3	J-37178-G	DD2-0109-G	4.75	5
J-37174-G	DD2-0105-G		4				



JOLICO NO.	REFERENCE NO.	L	T	A
J-37089-G	20-910-2024	3.25	3	2.500
J-37090-G	20-910-2032		4	
J-37091-G	20-910-2040		5	
J-37092-G	20-910-2124	3.75	3	3.000
J-37093-G	20-910-2132		4	
J-37094-G	20-910-2140		5	
J-37095-G	20-910-2224	4.75	3	4.000
J-37096-G	20-910-2232		4	
J-37097-G	20-910-2240		5	

SELF-LUBE GUIDE BLOCKS

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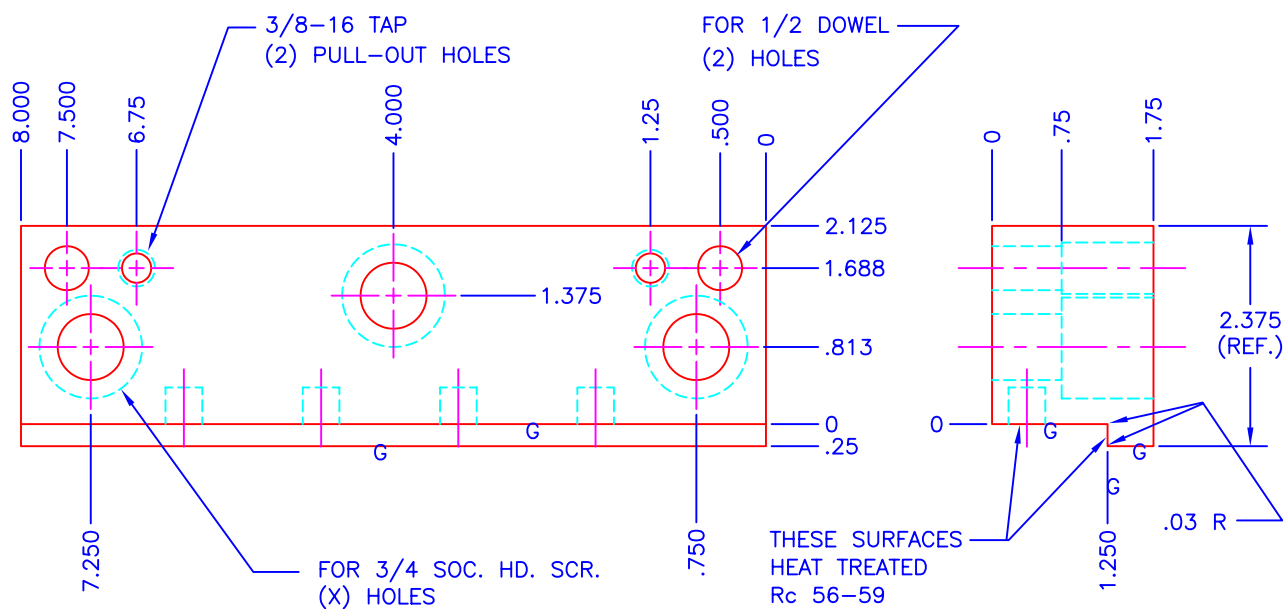
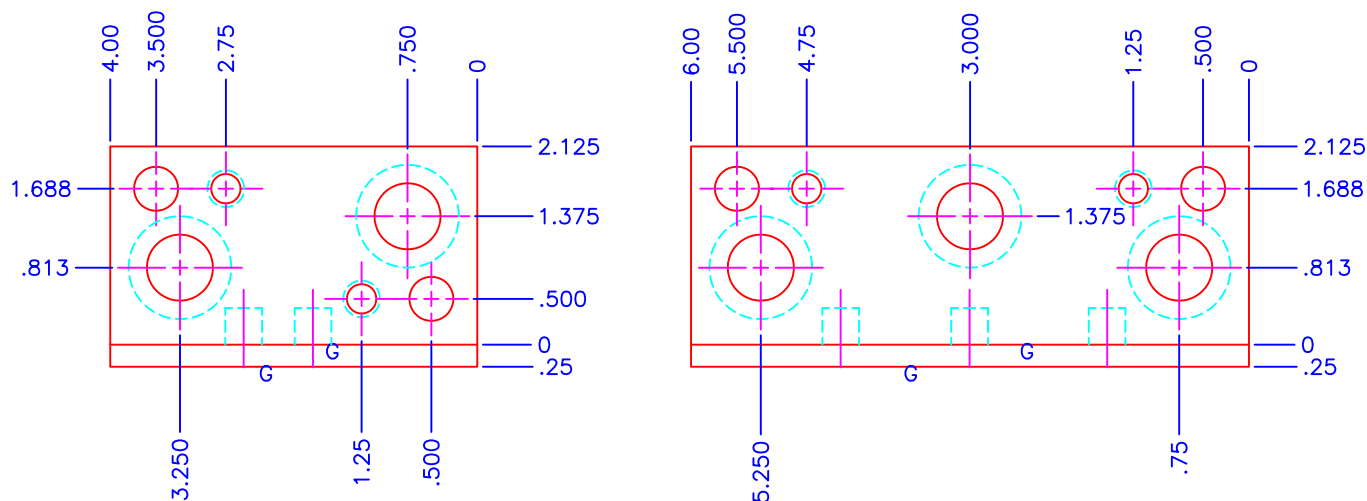
5" AND 6" LENGTHS ONLY

8" AND 10" LENGTHS ONLY

JOLICO NO.	REFERENCE NO.	A	B	C	D	E	F
J-37120-G	20-910-1124	3	1.94	1.25	.56	.18	1.50
J-37122-G	20-910-1132	4			.68	.09	
J-37098-G	20-910-1140	5					
J-37130-G	20-910-1224	3	2.44	1.25	.56	.18	1.50
J-37132-G	20-910-1232	4					
J-37099-G	20-910-1240	5					
J-37142-G	20-910-1332	4	2.94	1.25	.68	.09	1.50
J-37100-G	20-910-1340	5					
J-37145-G	20-910-1348	6					

JOLICO NO.	REFERENCE NO.	A	B	C	D	E	F
J-37125-G	20-910-1148	6	1.94	1.25	.68	.09	2.00
J-37127-G	20-910-1164	8					1.38
J-37135-G	20-910-1248	6					2.00
J-37137-G	20-910-1264	8	2.44	1.25	.68	.09	1.38
J-37139-G	20-910-1280	10					2.50
J-37147-G	20-910-1364	8					1.38
J-37149-G	20-910-1380	10	2.94	1.25	.68	.09	2.50

SELF-LUBE KEEPER BLOCKS

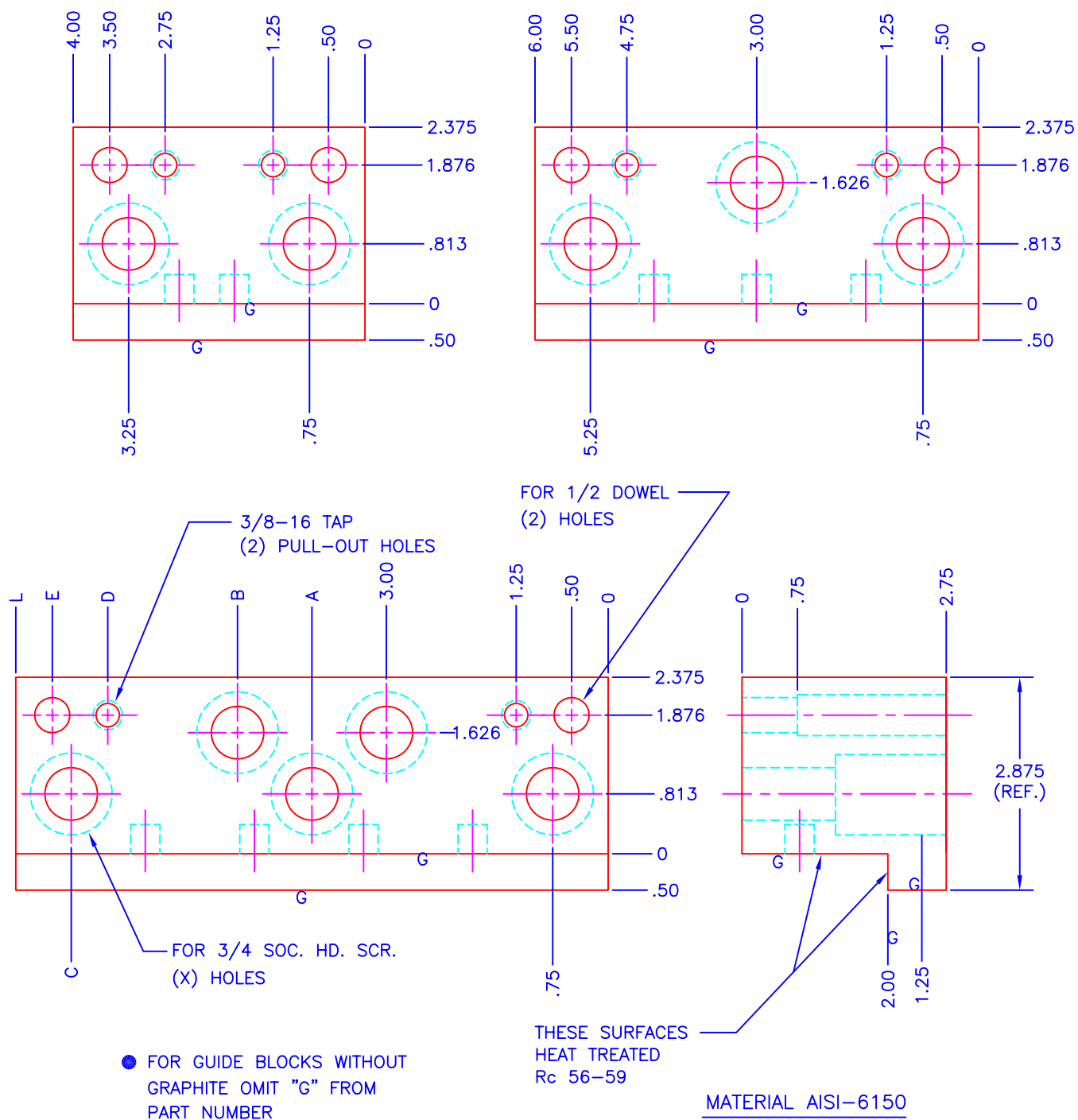


MATERIAL AISI-6150

JOLICO NUMBER	REFERENCE NUMBER	LENGTH OF KEEPERS	(X) SCREW HOLES
J-37364-G	20-910-3532	4	2
J-37365-G	20-910-3548	6	3
J-37366-G	20-910-3564	8	8

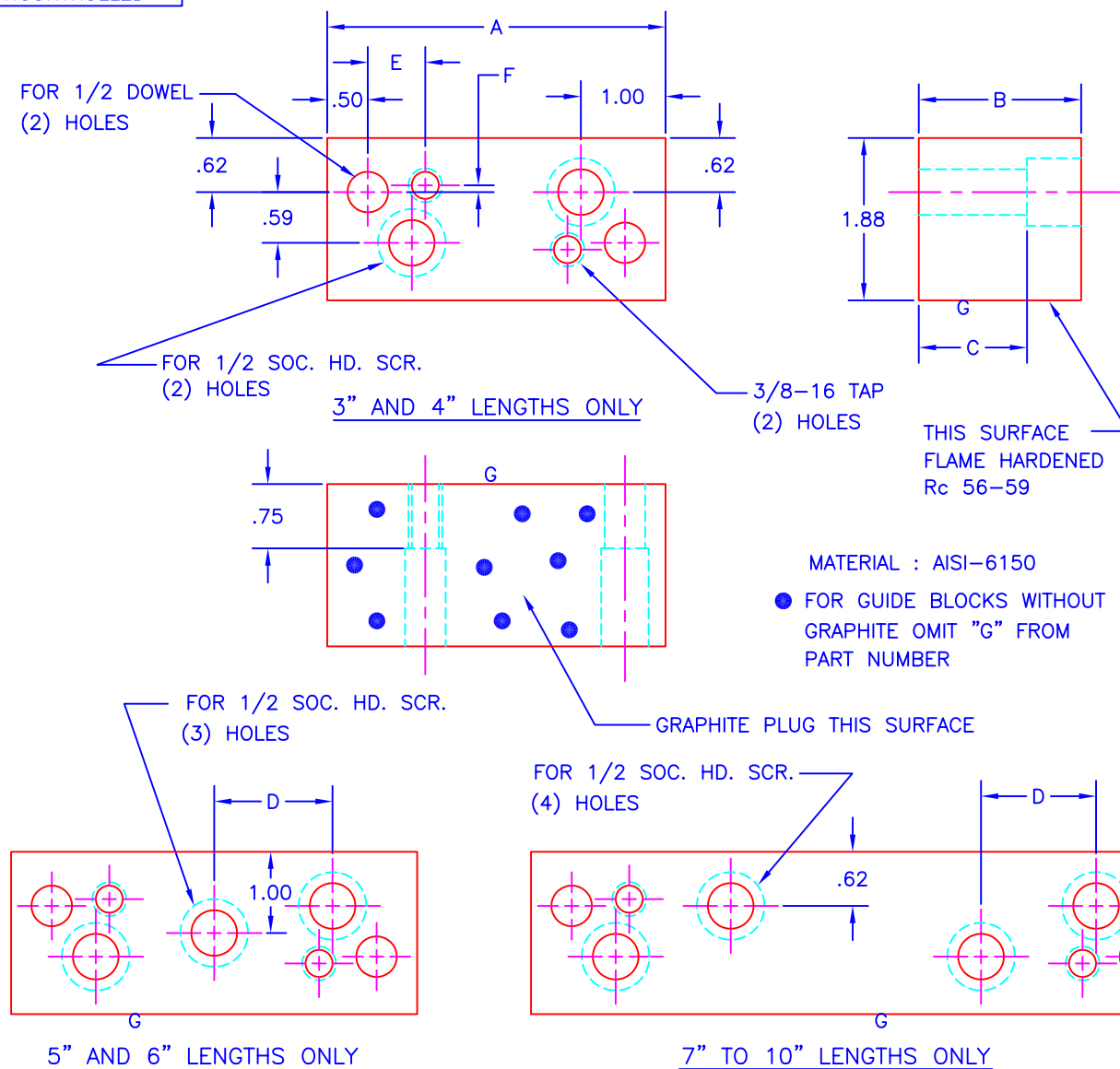
SELF-LUBE KEEPER BLOCKS

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JOLICO NO.	REFERENCE NO.	L	A	B	C	D	E	X
J-37367-G	20-910-3632	4.00						2
J-37368-G	20-910-3648	6.00						3
J-37369-G	20-910-3664	8.00		5.00	7.25	6.25	7.50	4
J-37370-G	20-910-3680	10.00	5.00	7.00	9.25	8.75	9.50	5
J-37371-G	20-910-3696	12.00	6.00	9.00	11.25	10.75	11.50	5

SELF-LUBE GUIDE BLOCKS

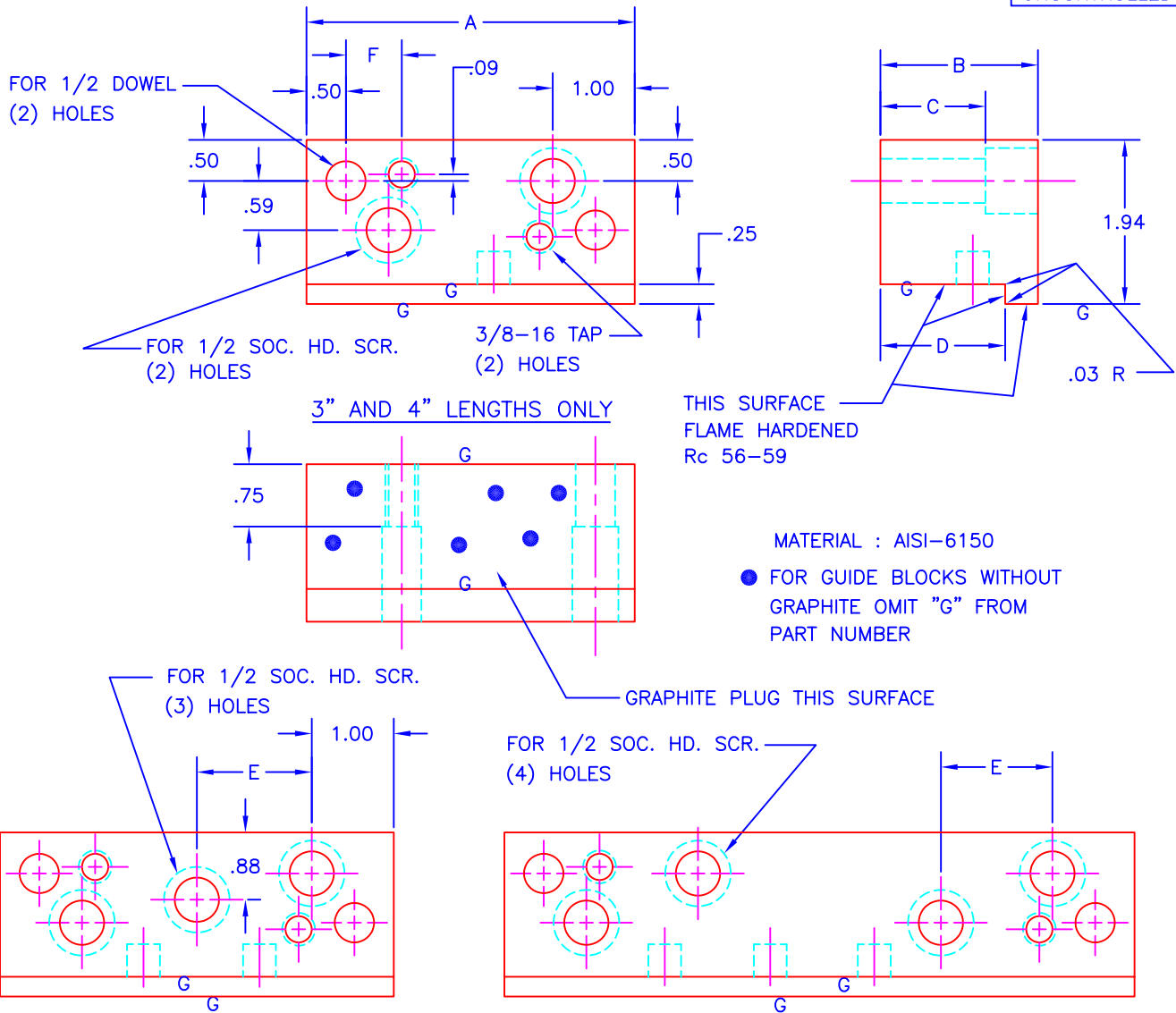


JOLICO NO.	REFERENCE NO.	A	B	C	D	E	F
J-37110-G	DD2-0201-G	3				.56	.18
J-37112-G	DD2-0202-G	4	1.68	.62		.68	.09
J-37114-G	DD2-0203-G	5			1.38		
J-37120-G	DD2-0204-G	3				.56	.18
J-37122-G	DD2-0205-G	4	1.94	1.25			
J-37124-G	DD2-0206-G	5			1.38	.68	.09
J-37130-G	DD2-0207-G	3				.56	.18
J-37132-G	DD2-0208-G	4	2.44	1.25			
J-37134-G	DD2-0209-G	5			1.38	.68	.09
J-37142-G	DD2-0210-G	4					
J-37144-G	DD2-0211-G	5	2.94	1.25	1.38	.68	.09
J-37145-G	DD2-0212-G	6			2.00		

JOLICO NO.	REFERENCE NO.	A	B	C	D	E	F
J-37115-G	DD2-0301-G	6			2.00	.68	.09
J-37116-G	DD2-0302-G	7	1.68	.62		1.38	
J-37117-G	DD2-0303-G	8					
J-37125-G	DD2-0304-G	6			2.00		
J-37126-G	DD2-0305-G	7	1.94	1.25		1.38	.68 .09
J-37127-G	DD2-0306-G	8				2.50	
J-37128-G	DD2-0307-G	9					
J-37135-G	DD2-0308-G	6			2.00		
J-37136-G	DD2-0309-G	7					
J-37137-G	DD2-0310-G	8	2.44	1.25	1.38	.68	.09
J-37138-G	DD2-0311-G	9					
J-37139-G	DD2-0312-G	10			2.50		
J-37146-G	DD2-0313-G	7			1.38		
J-37147-G	DD2-0314-G	8	2.94	1.25		.68	.09
J-37148-G	DD2-0315-G	9					
J-37149-G	DD2-0316-G	10			2.50		

SELF-LUBE KEEPER BLOCKS

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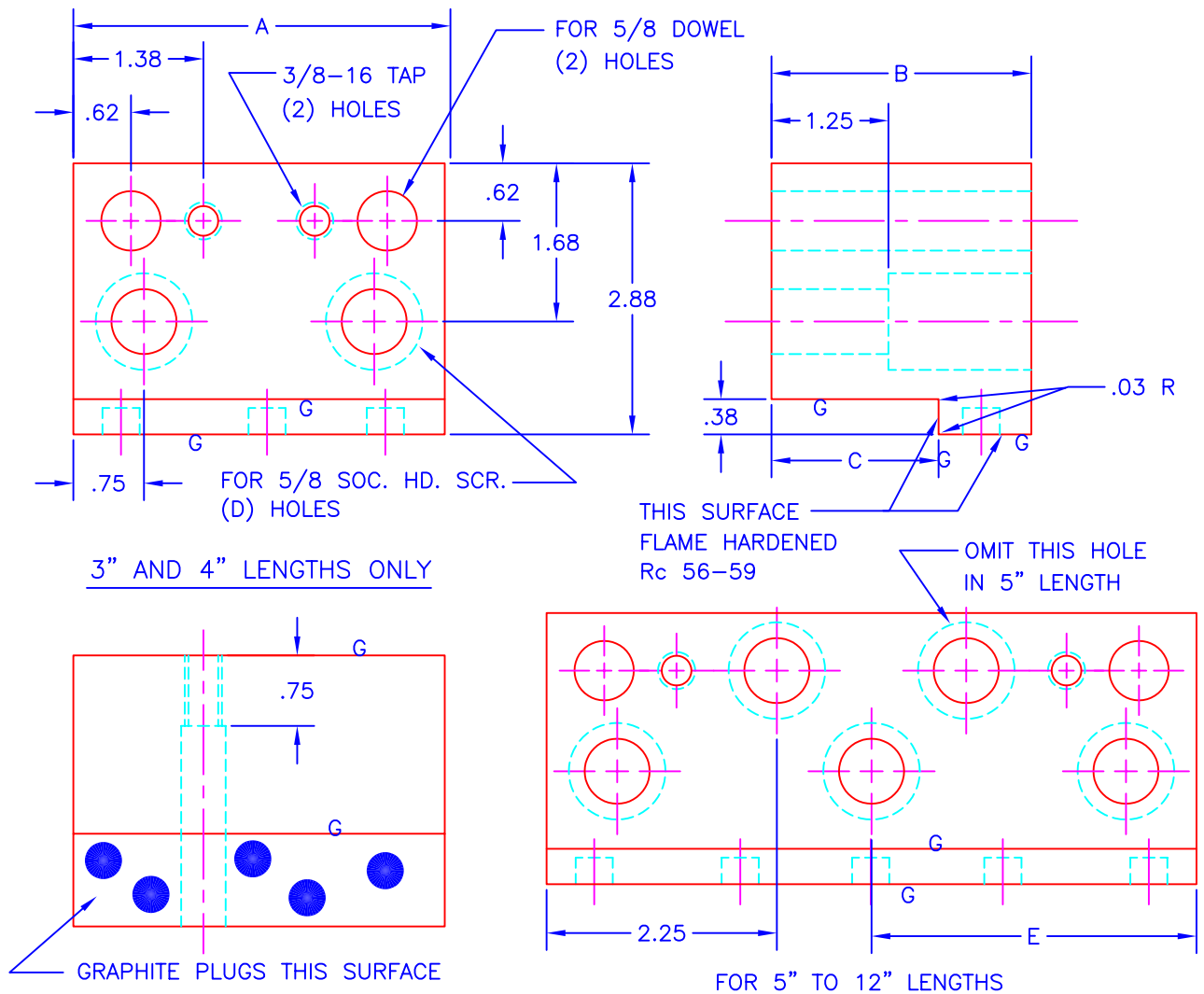
5" AND 6" LENGTHS ONLY

JOLICO NO.	REF. NO.	A	B	C	D	E	F
J-37256-G	DD2-0401-G	3					.56
J-37260-G	DD2-0402-G	4	1.44	.62	1.00		.68
J-37264-G	DD2-0403-G	5				1.50	
J-37285-G	DD2-0404-G	3					.56
J-37289-G	DD2-0405-G	4	1.68	.62	1.25		.68
J-37293-G	DD2-0406-G	5				1.50	
J-37314-G	DD2-0407-G	3					.56
J-37318-G	DD2-0408-G	4	1.94	1.25	1.50		.68
J-37322-G	DD2-0409-G	5				1.50	
J-37347-G	DD2-0410-G	4					
J-37351-G	DD2-0411-G	5	2.44	1.25	1.75	1.50	.68
J-37355-G	DD2-0412-G	6				2.00	

7" TO 10" LENGTHS ONLY

JOLICO NO.	REF. NO.	A	B	C	D	E	F
J-37268-G	DD2-0501-G	6				2.00	
J-37271-G	DD2-0502-G	7	1.44	.62	1.00	1.38	.68
J-37272-G	DD2-0503-G	8					
J-37297-G	DD2-0504-G	6				2.00	
J-37300-G	DD2-0505-G	7	1.68	.62	1.25	1.38	.68
J-37301-G	DD2-0506-G	8					
J-37302-G	DD2-0507-G	9				2.50	
J-37326-G	DD2-0508-G	6				2.00	
J-37329-G	DD2-0509-G	7	1.94	1.25	1.50	1.38	.68
J-37330-G	DD2-0510-G	8					
J-37331-G	DD2-0511-G	9				2.50	
J-37358-G	DD2-0512-G	7				1.38	
J-37359-G	DD2-0513-G	8	2.44	1.25	1.75		.68
J-37360-G	DD2-0514-G	9				2.50	
J-37361-G	DD2-0515-G	10					

SELF-LUBE KEEPER BLOCKS



JOLICO NO.	REFERENCE NO.	A	B	C	D
J-37372-G	DD2-1101-G	3	2.75	1.50	2
J-37373-G	DD2-1102-G	4			3
J-37374-G	DD2-1103-G	5			4
J-37375-G	DD2-1104-G	6			2
J-37379-G	DD2-1105-G	3	2.88	1.75	2
J-37380-G	DD2-1106-G	4			3
J-37381-G	DD2-1107-G	5			4
J-37382-G	DD2-1108-G	6			2
J-37386-G	DD2-1109-G	3	3.25	2.00	2
J-37387-G	DD2-1110-G	4			3
J-37388-G	DD2-1111-G	5			4
J-37389-G	DD2-1112-G	6			2
J-37393-G	DD2-1113-G	3	3.38	2.25	2
J-37394-G	DD2-1114-G	4			3
J-37395-G	DD2-1115-G	5			4
J-37396-G	DD2-1116-G	6			2
J-37400-G	DD2-1117-G	3	3.88	2.50	2
J-37401-G	DD2-1118-G	4			3
J-37402-G	DD2-1119-G	5			4
J-37403-G	DD2-1120-G	6			2

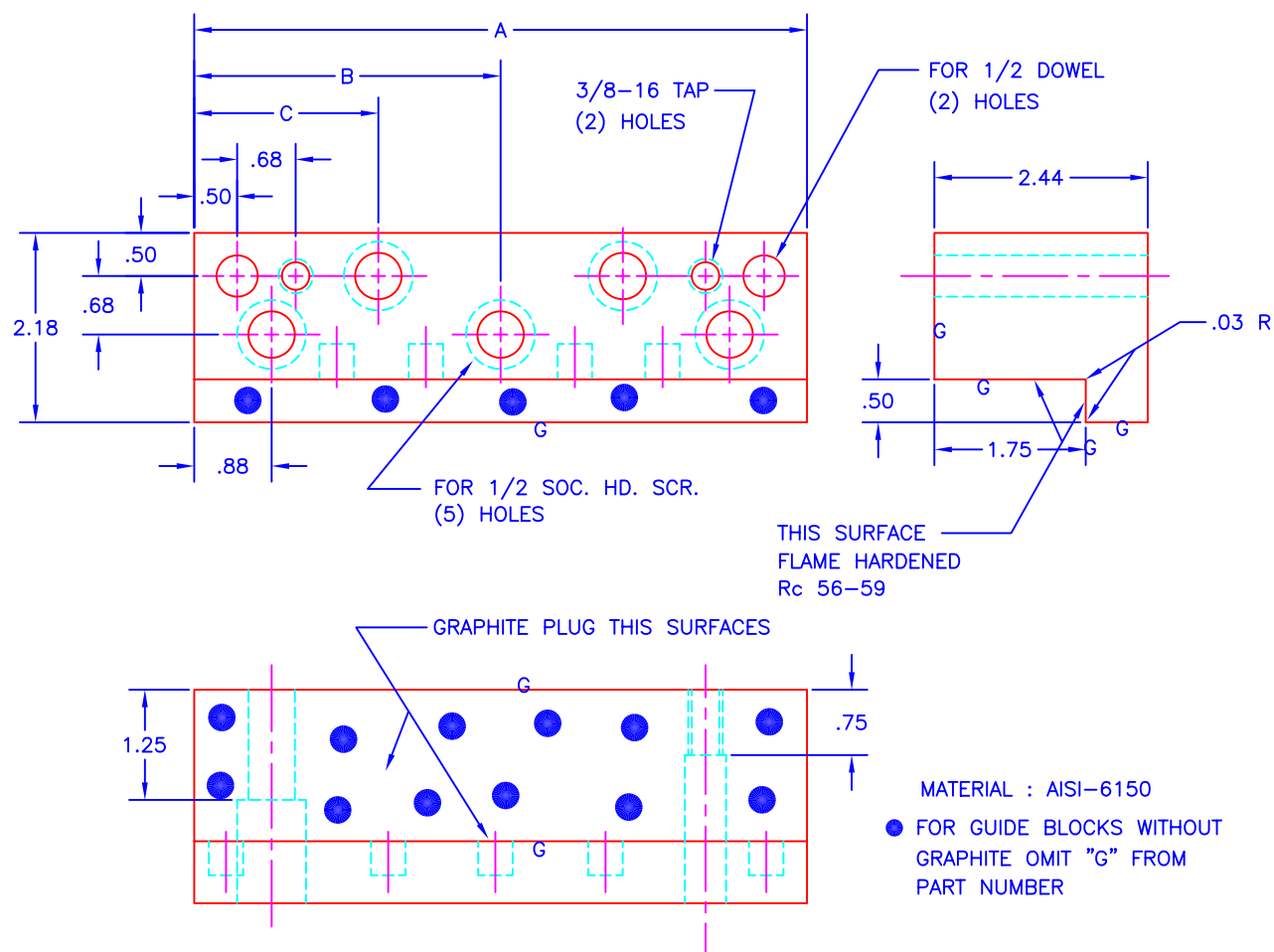
JOLICO NO.	REFERENCE NO.	A	B	C	D	E
J-37376-G	DD2-1121-G	8	2.75	1.50	5	3.75
J-37377-G	DD2-1122-G	10				4.75
J-37378-G	DD2-1123-G	12				6.25
J-37383-G	DD2-1124-G	8				3.75
J-37384-G	DD2-1125-G	10	2.88	1.75	5	4.75
J-37385-G	DD2-1126-G	12				6.25
J-37390-G	DD2-1127-G	8				3.75
J-37391-G	DD2-1128-G	10				4.75
J-37392-G	DD2-1129-G	12	3.25	2.00	5	6.25
J-37397-G	DD2-1130-G	8				3.75
J-37398-G	DD2-1131-G	10				4.75
J-37399-G	DD2-1132-G	12				6.25
J-37404-G	DD2-1133-G	8	3.38	2.25	5	3.75
J-37405-G	DD2-1134-G	10				4.75
J-37406-G	DD2-1135-G	12				6.25

MATERIAL : AISI-6150

● FOR GUIDE BLOCKS WITHOUT
GRAPHITE OMIT "G" FROM
PART NUMBER

SELF-LUBE KEEPER BLOCKS

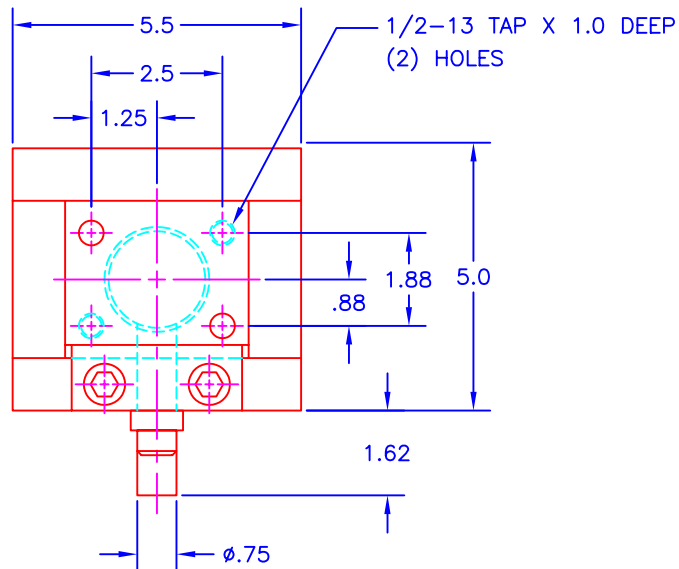
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JOLICO NO.	REFERENCE NO.	A	B	C
J-37442-G	DD2-0801-G	6	3.00	1.88
J-37443-G	DD2-0802-G	7	3.50	2.06
J-37444-G	DD2-0803-G	8	4.00	2.44
J-37445-G	DD2-0804-G	9	4.50	2.62
J-37446-G	DD2-0805-G	10	5.00	2.94
J-37447-G	DD2-0806-G	11	5.50	3.25
J-37448-G	DD2-0807-G	12	6.00	3.50

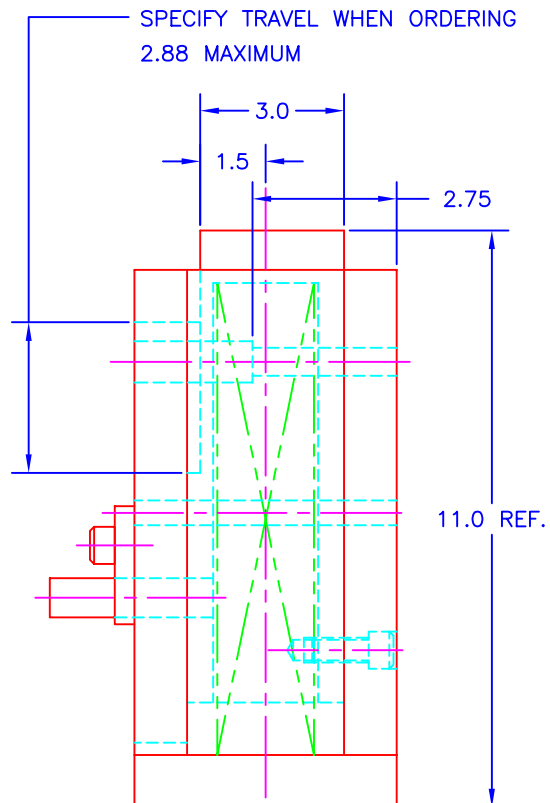
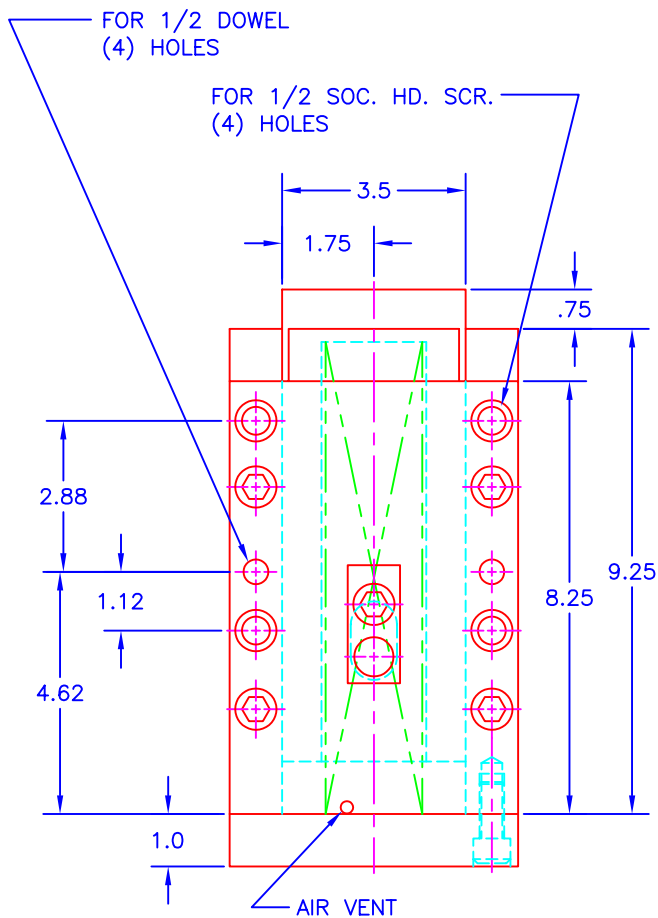
GAGE STRIPPER

THIS DETAIL HAS THE SAME FUNCTION AS J-40601 ON PAGE 3,
EXCEPT IT PROVIDES A MAXIMUM OF 510 LBS. STRIPPING FORCE.
KNOCK DOWN PLATE J-41141 ON PAGE 1, CAN BE USED WITH ALL
SPRING LOADED FLANGE STRIPPERS.



JOLICO NO.	REF. NO.
J-40501	DX16-14-0501

EXAMPLE FOR ORDERING
J-40501 X 2.0 TRAVEL



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Technical drawing of a mechanical part with dimensions and a table.

Dimensions:

- Overall width: 8.0
- Distance from left edge to center of first hole: 2.5
- Distance between centers of two holes: 5.0
- Overall height: 5.0
- Distance from top edge to center of first hole: 1.88
- Distance from center of first hole to center of second hole: .88
- Distance from bottom edge to center of first hole: 1.62
- Bottom hole diameter: $\phi .75$

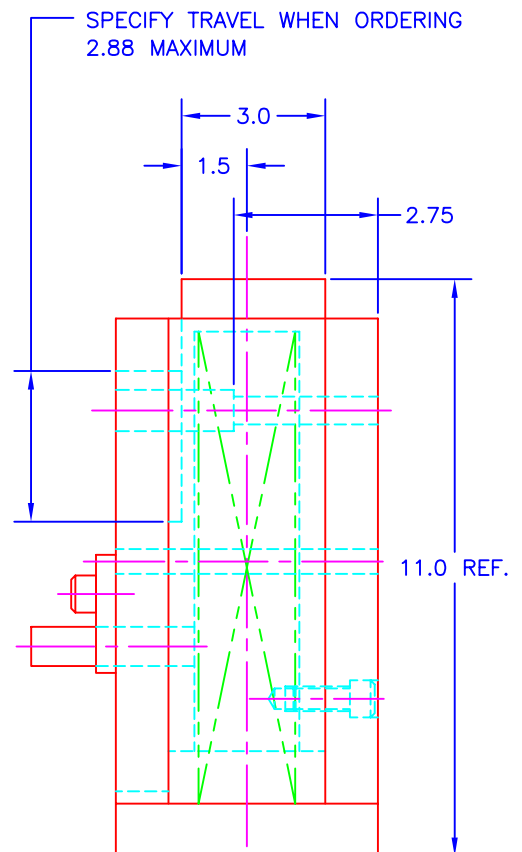
Text:

1/2-13 TAP X 1.0 DEEP
(2) HOLES

JOLICO NO
J-40601

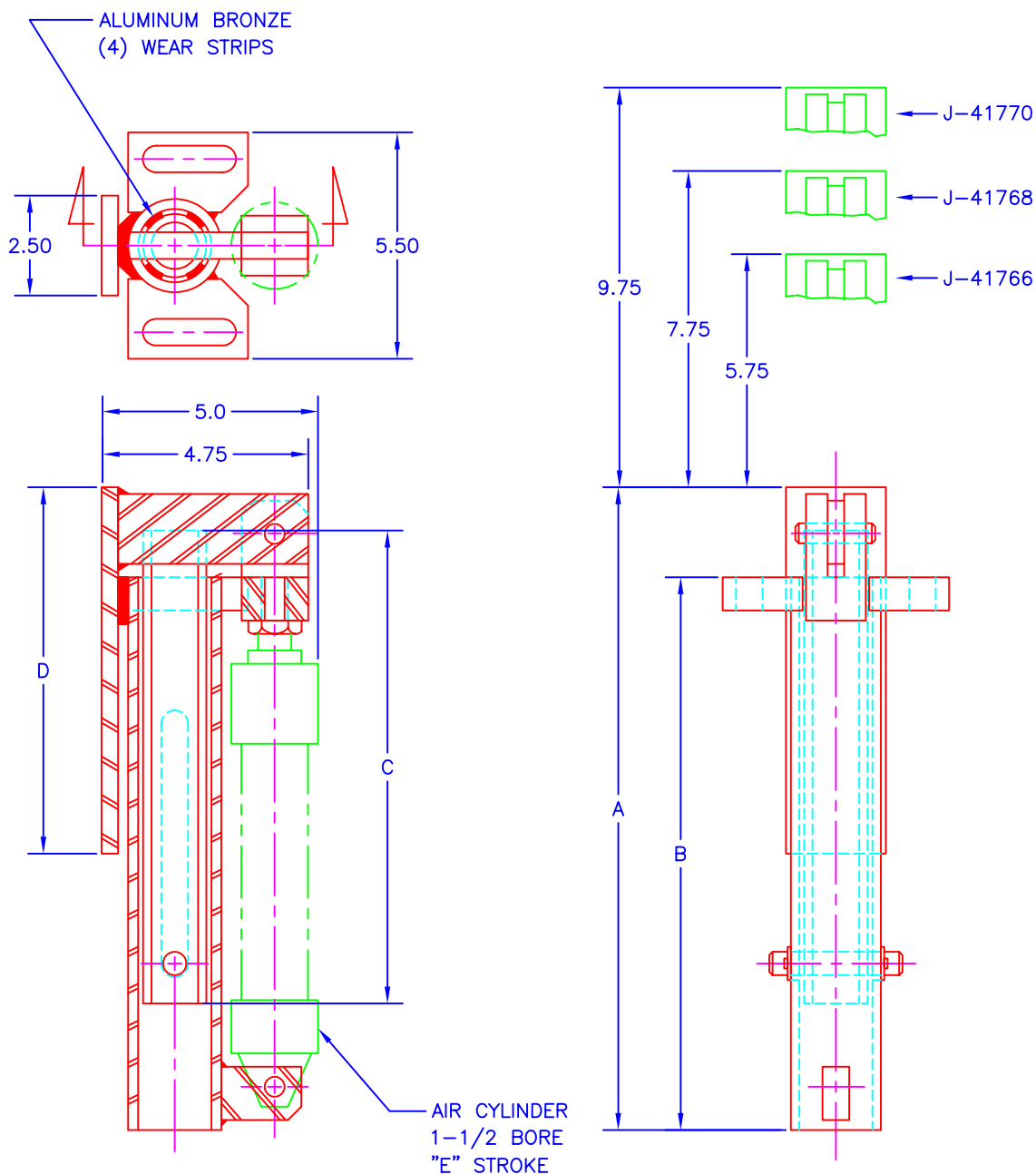
EXAMPLE
J-40601

EXAMPLE FOR ORDERING
J-40601 X 1.5 TRAVEL



TUBULAR DISAPPEARING GAGES

THESE ITEMS ARE USED TO GAGE INCOMING BLANKS
AND DISAPPEAR DOWNWARD TO ALLOW UNLOADING
OF PANEL. ALUMINUM BRONZE STRIPS ON THE
OUTSIDE OF THE SLIDING MEMBER INHIBIT BINDING



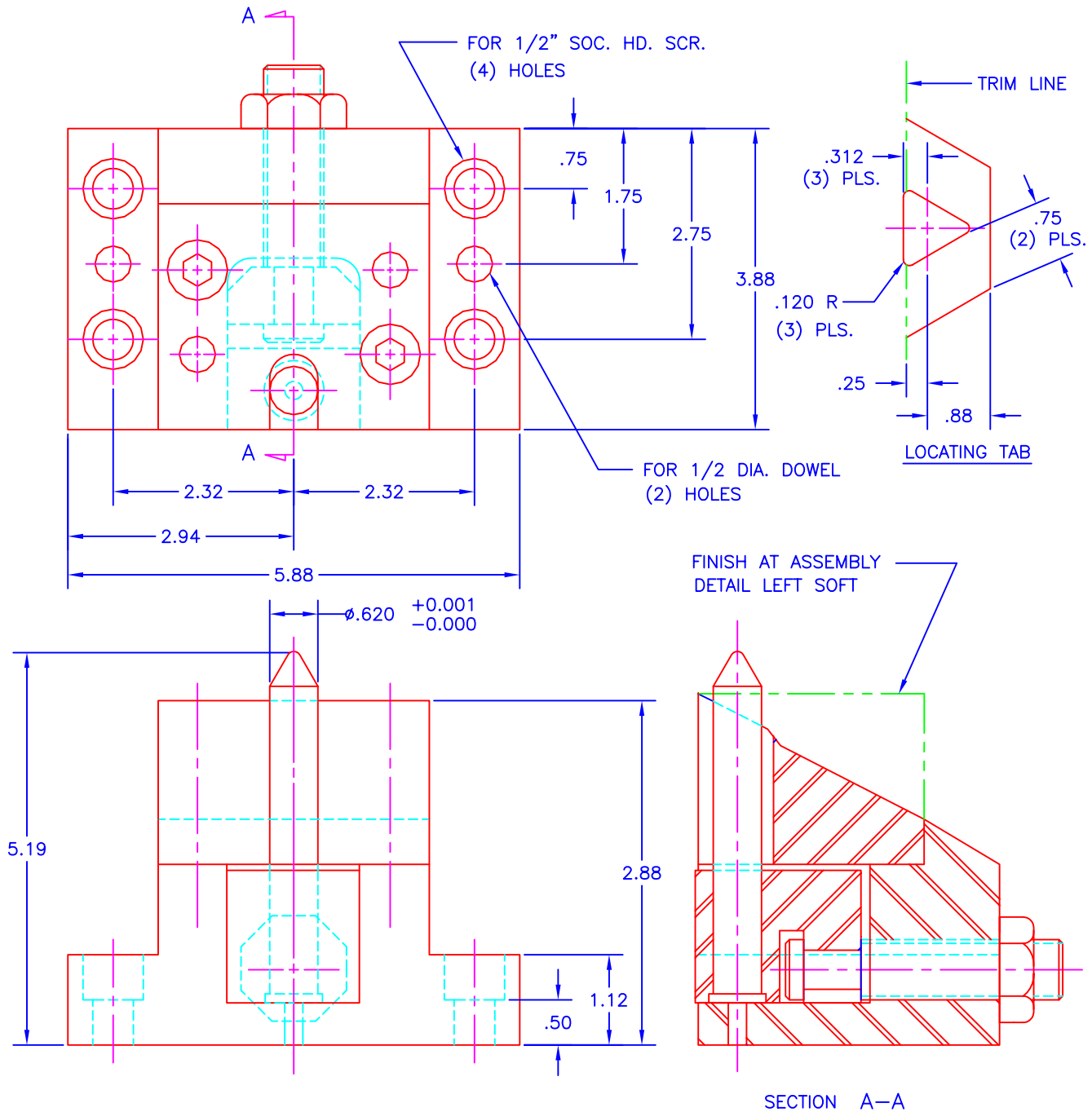
NOTE: ASSEMBLY AVAILABLE WITH AIR CYLINDER UPON REQUEST.

JOLICO NO.	REF. NO.	A	B	C	D	E
J-41766	M-1105-6	15.88	13.75	11.62	9.0	6.0
J-41768	M-1105-8	17.88	15.75	13.62	11.0	8.0
J-41770	M-1105-10	19.88	17.75	15.62	13.0	10.0

TRIM TAB PILOT GAGE

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UNCONTROLLED

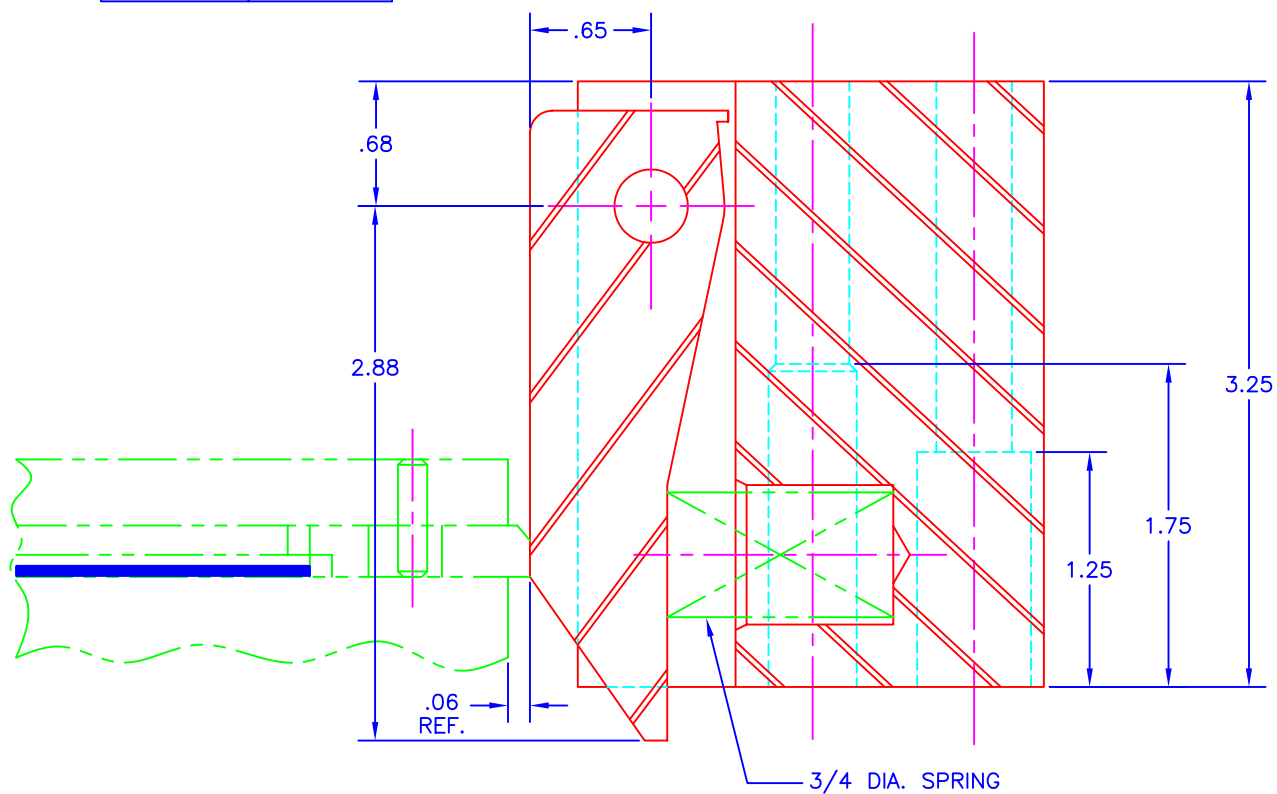
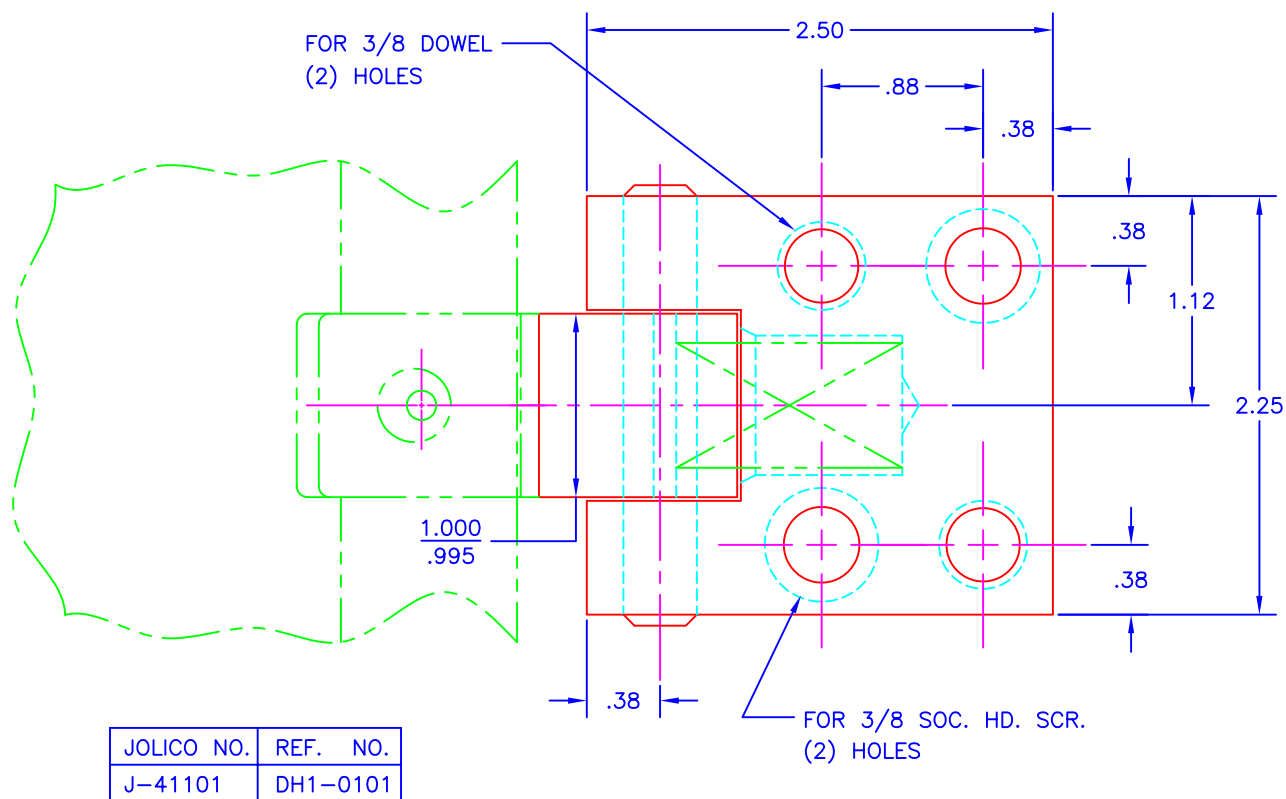
THIS ITEM IS USED IN DIRECT FLANGE DIES ON
PANELS WITH LITTLE OR NO SHAPE. TAB WITH TRIANGULAR
HOLES POSITIVELY LOCATES PANEL ON PIN. TAB IS THEN
TRIMMED OFF BY THE BACK EDGE OF FLANGE STEEL.



JOLICO NO.	REF. NO.
J-41012	DH8-0101

VERTICAL PUSHER GAGE

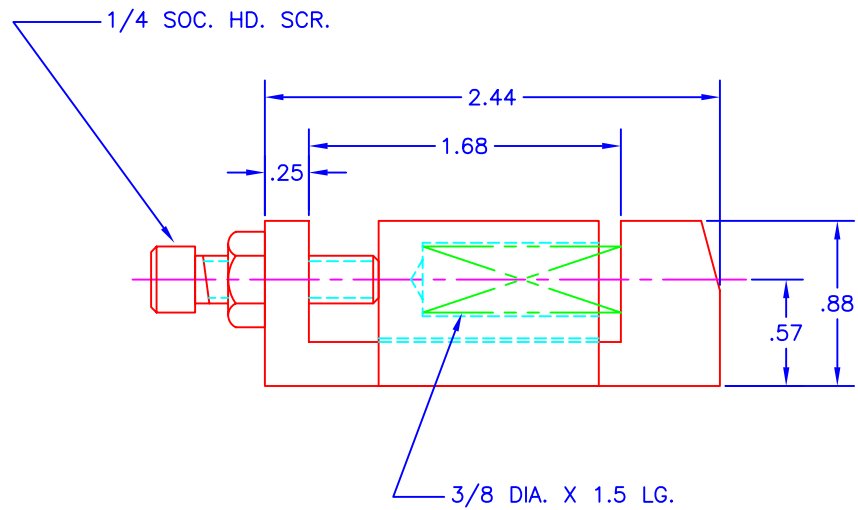
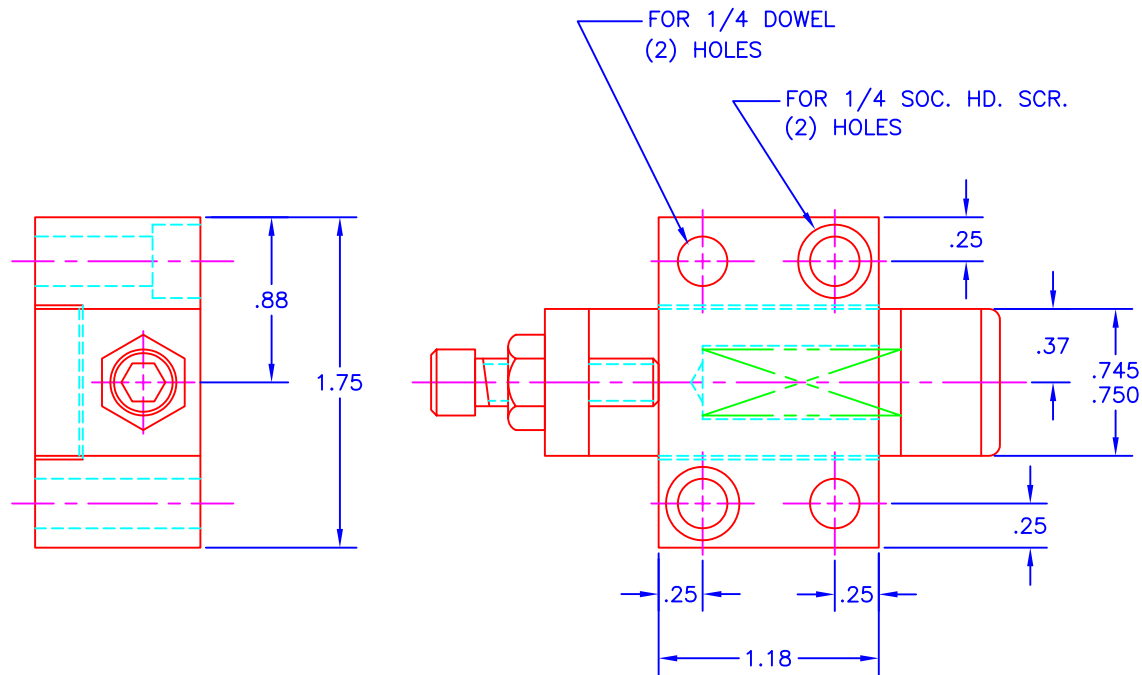
THIS GAGE ACTS LIKE A STOCK COMPENSATOR.
IT IS USED MAINLY ON PROGRESSIVE DIES.



ADJUSTABLE SPRING GAGE

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UNCONTROLLED

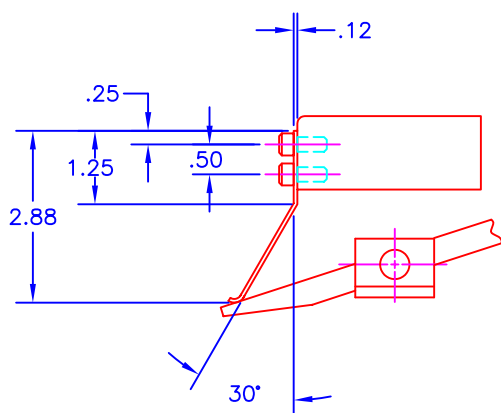
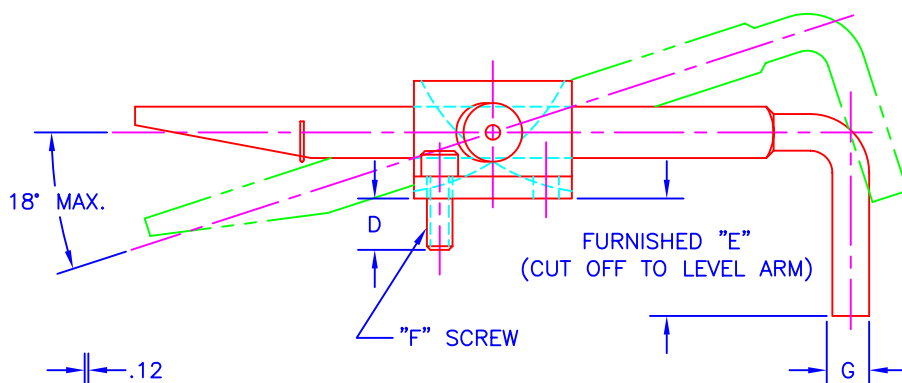
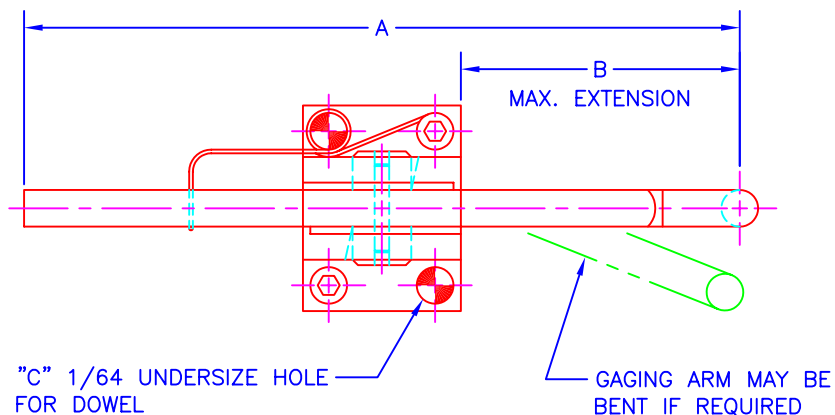
THIS GAGE IS ANOTHER FORM OF STOCK COMPENSATOR



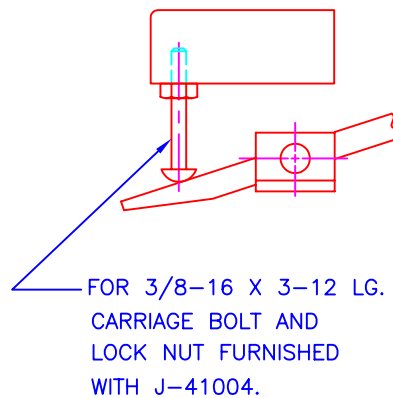
JOLICO NO.	REF. NO.	REF. NO.
J-41201	DH1-0201	M-707

AUTOMATIC STOP GAGE

THESE ITEMS ARE USED TO INSURE POSITIVE
GAGING OF STRIP OR COIL



TRIP SPRING AND (2) #10-24 SOC. HD. CAP SCR.
FURNISHED WITH J-41001, J-41002 & J-41003.
(FURNISHED AS SHOWN. BEND TO SUIT.)

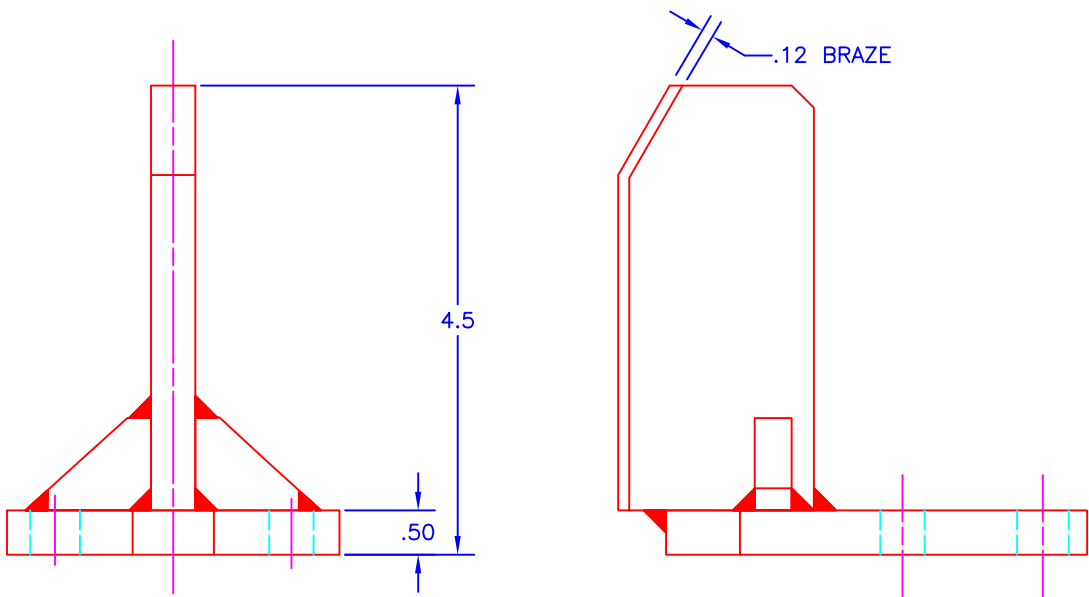
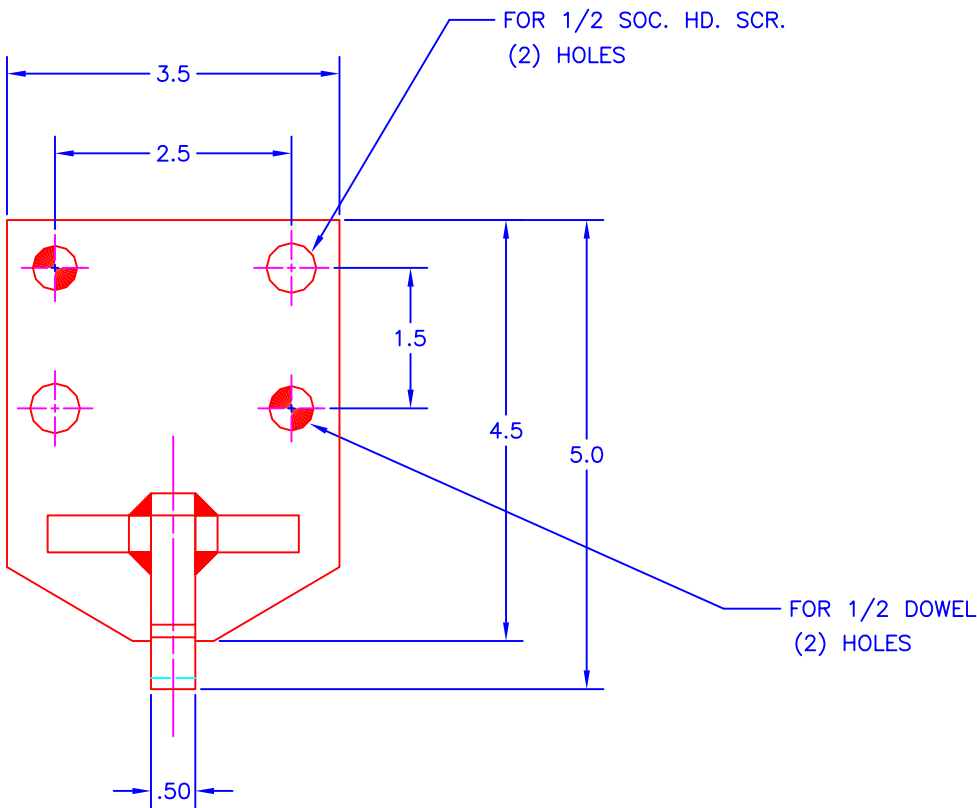


JOLICO NO.	REF. NO.	A	B	C	D	E	F	G
J-41001	AS-1	5.00	2.50	3/16	.34	.75	#10-24	.18
J-41002	AS-2	6.00	3.00	1/4	.40	1.00	1/4-20	.25
J-41003	AS-3	8.00	4.00	5/16	.46	1.38	5/16-18	.38
J-41004	AS-4	10.00	5.00	3/8	.68	1.75	3/8-16	.50

SOLID GAGE

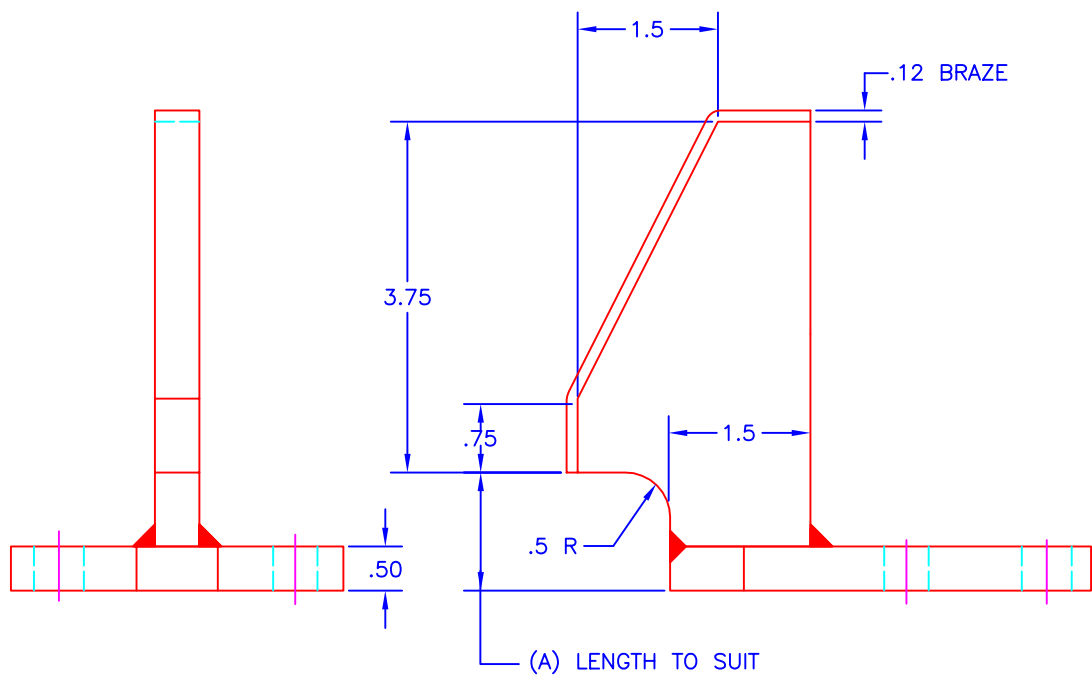
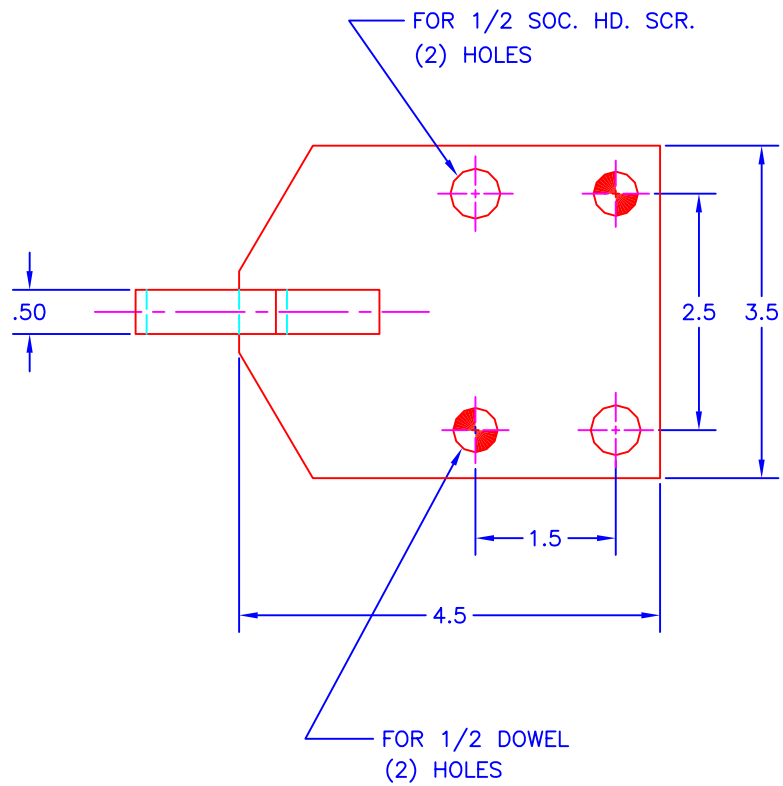
PRINTED COPY IS
UNCONTROLLED

THIS GAGE IS USED ON 45° HEM AND FLATTEN DIES.



JOLICO NO.	REF. NO.
J-41161	DX16-4-0401

SOLID GAGE

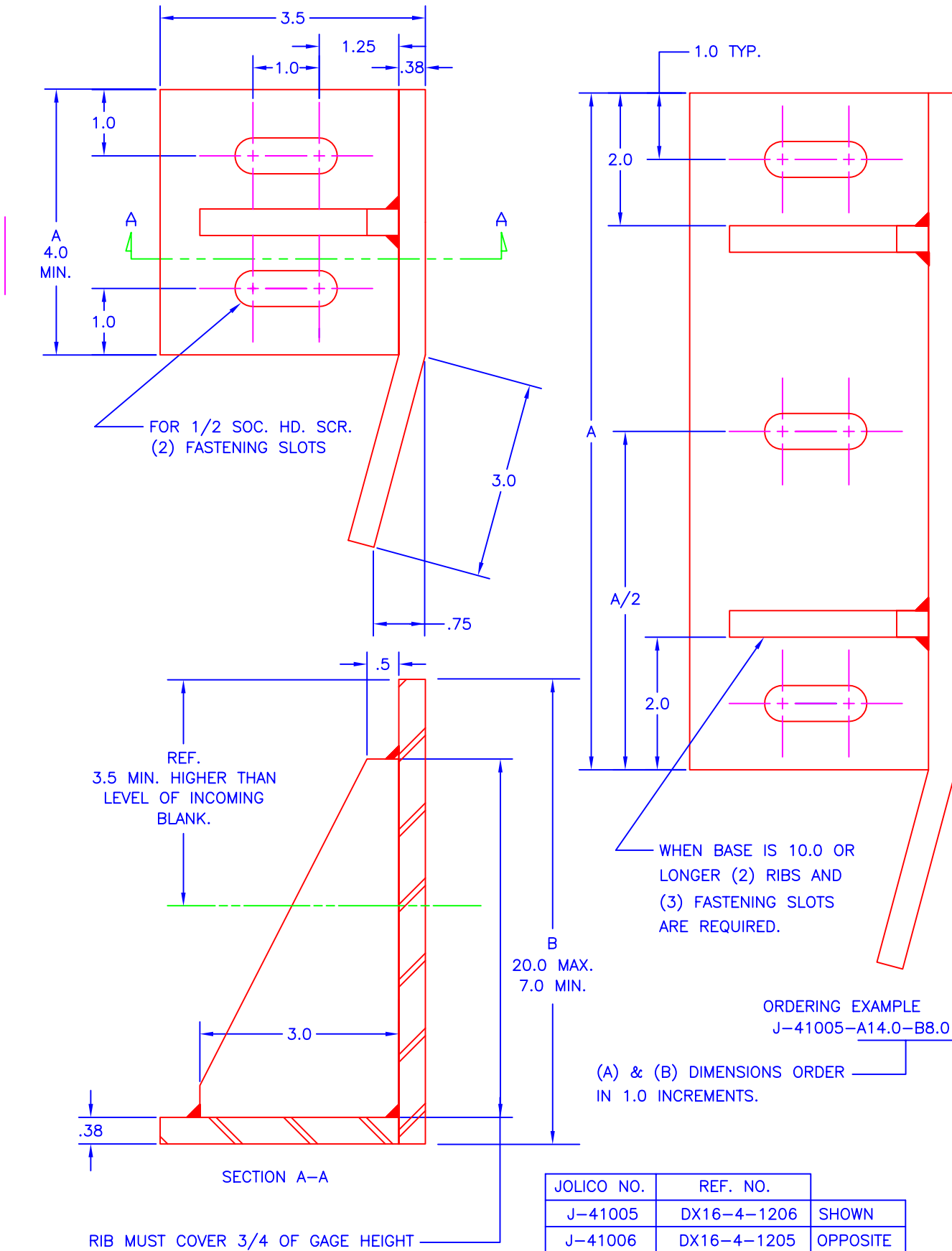


JOLICO NO.	REF. NO.
J-41165	DX16-4-0502

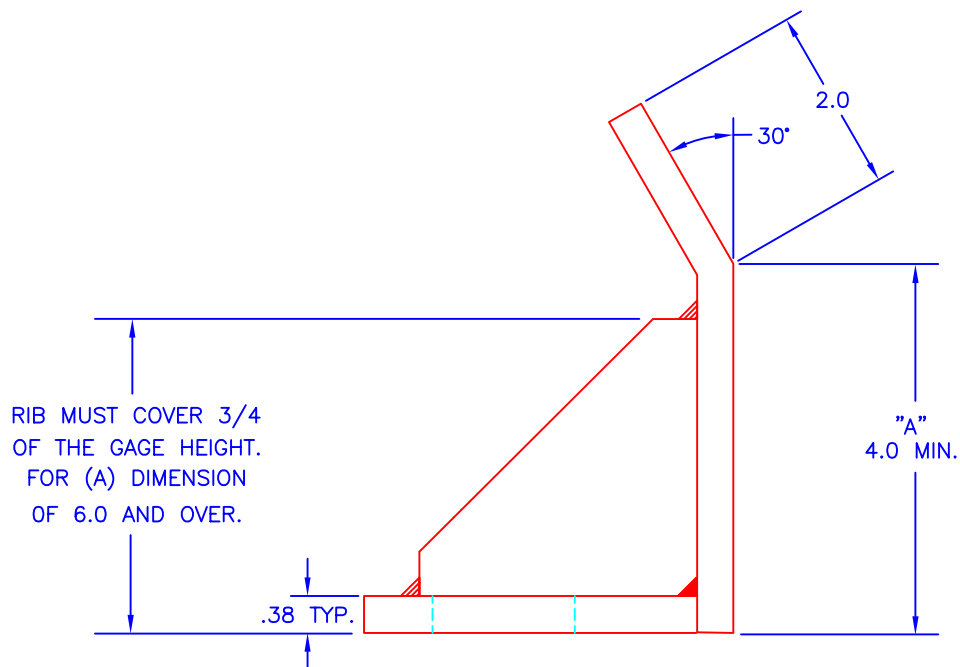
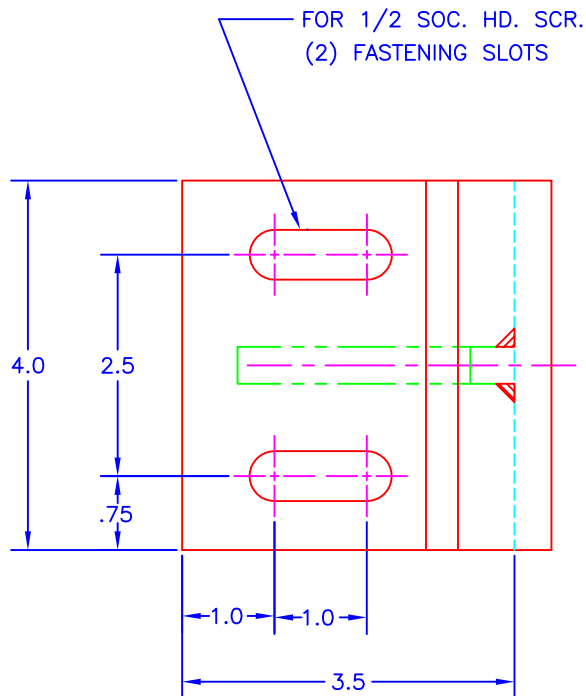
ORDERING EXAMPLE:
J-41165 X A = 2.5 LONG

DRAW DIE SIDE GUIDES

PRINTED COPY IS
UNCONTROLLED



DRAW DIE SIDE GAGE



JOLICO NO.	REF. NO.
J-41008	DX16-4-1301

ORDERING EXAMPLE

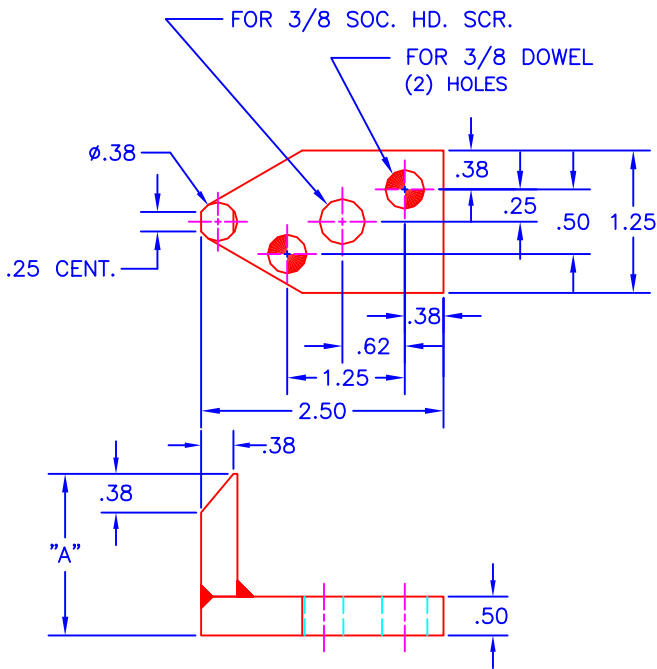
J-41008-A6.0

SPECIFY "A" DIM.

STANDARD GAGES

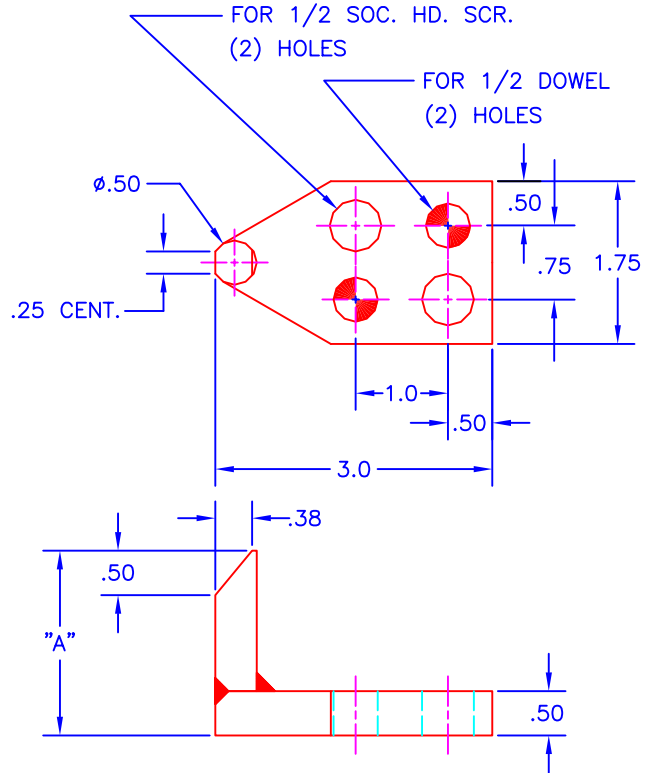
PRINTED COPY IS
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A = 2.0 MINIMUM
ORDER IN .5
INCREMENTS



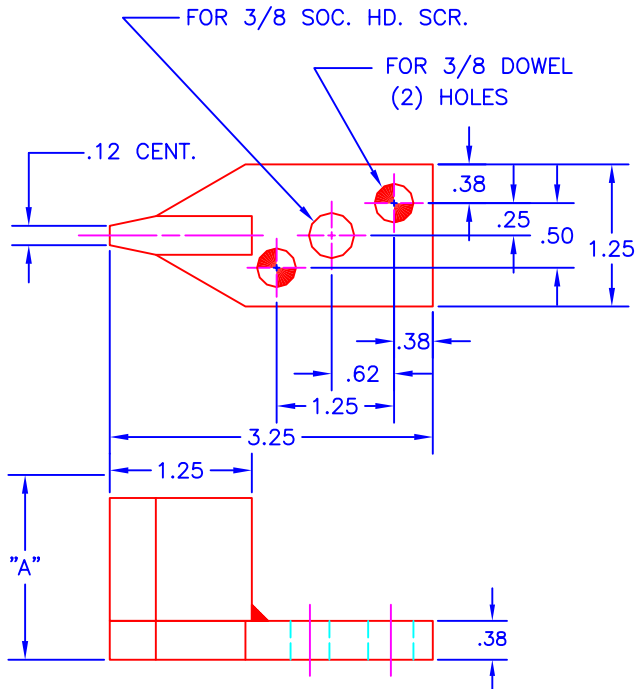
PIN GAGE

JOLICO NO.	REF. NO.
J-41120	DX16-4-1801



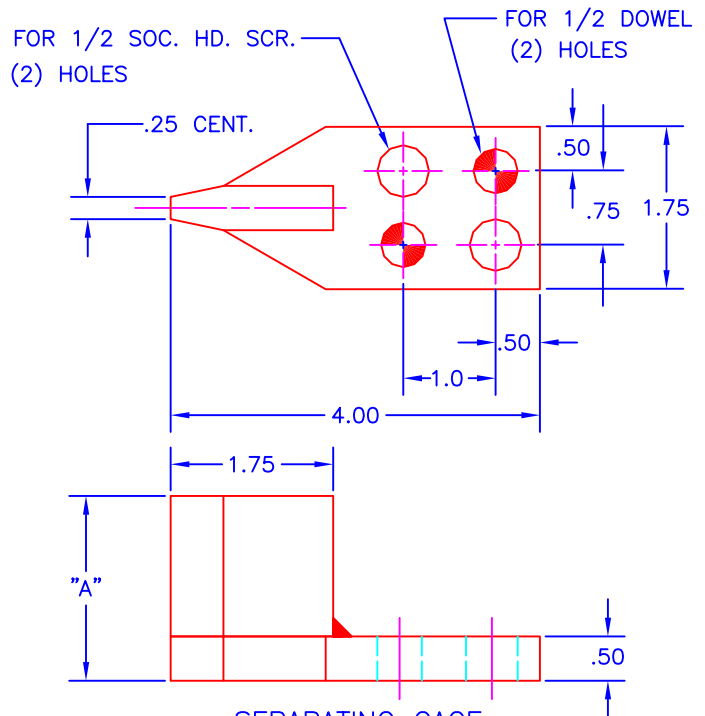
PIN GAGE

JOLICO NO.	REF. NO.
J-41122	DX16-4-1803



SEPARATING GAGE

JOLICO NO.	REF. NO.
J-41121	DX16-4-1802

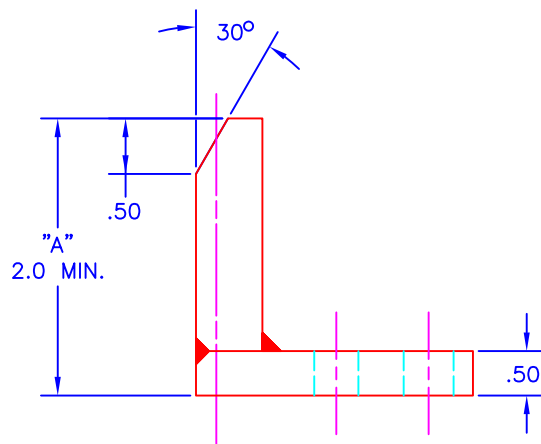
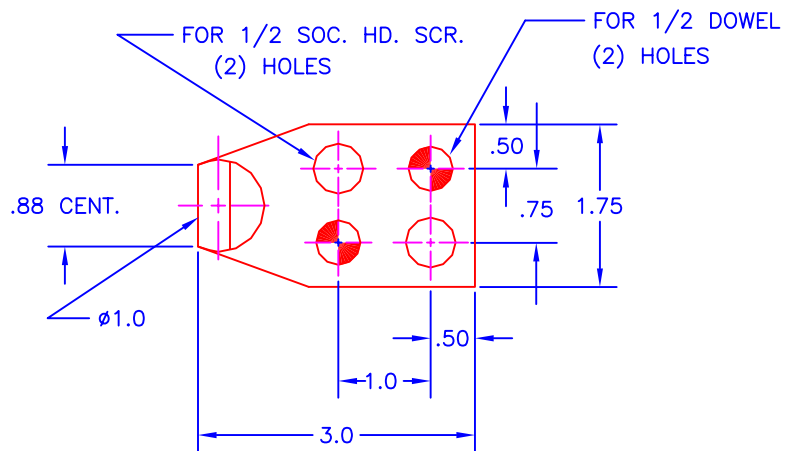


SEPARATING GAGE

JOLICO NO.	REF. NO.
J-41123	DX16-4-1804

ORDERING EXAMPLE
J-41122-A6.5
SPECIFY "A" DIM. ☐

SIDE GAGE



JOLICO NO.	REF. NO.
J-41125	DX16-4-1302

ORDERING EXAMPLE

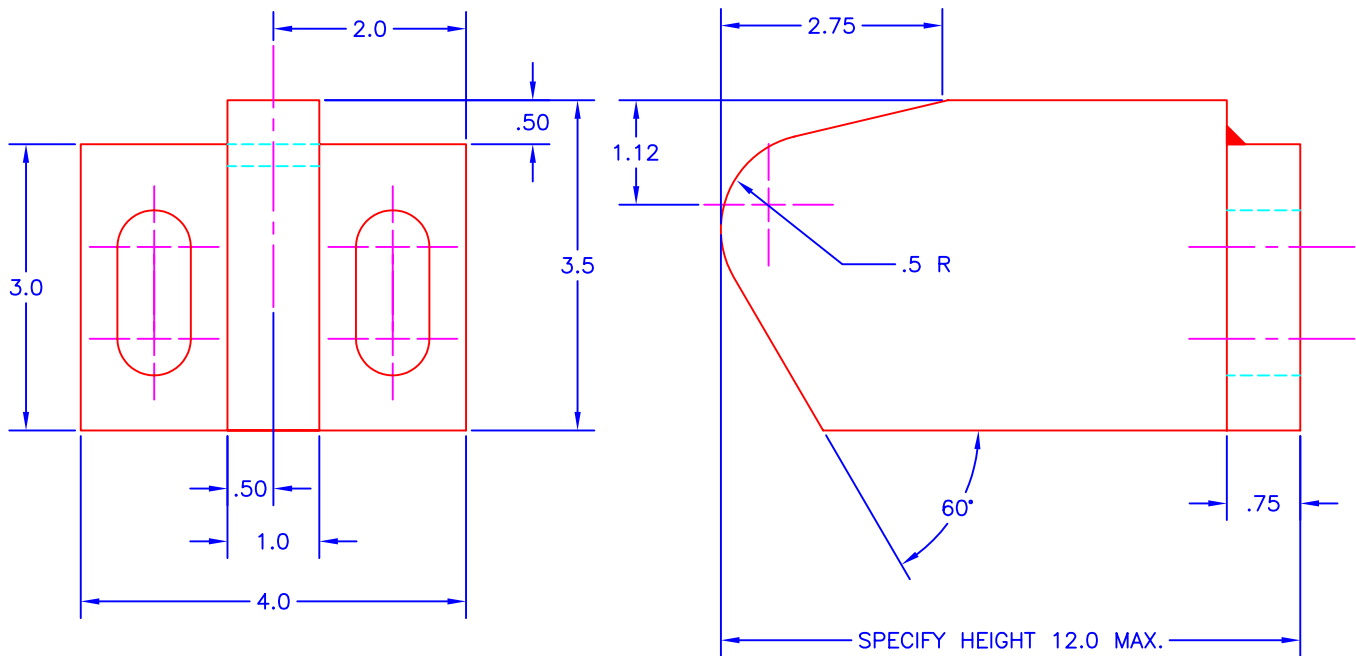
J-41125-A6.5

SPECIFY "A" DIM.

SOLID FRONT GAGES

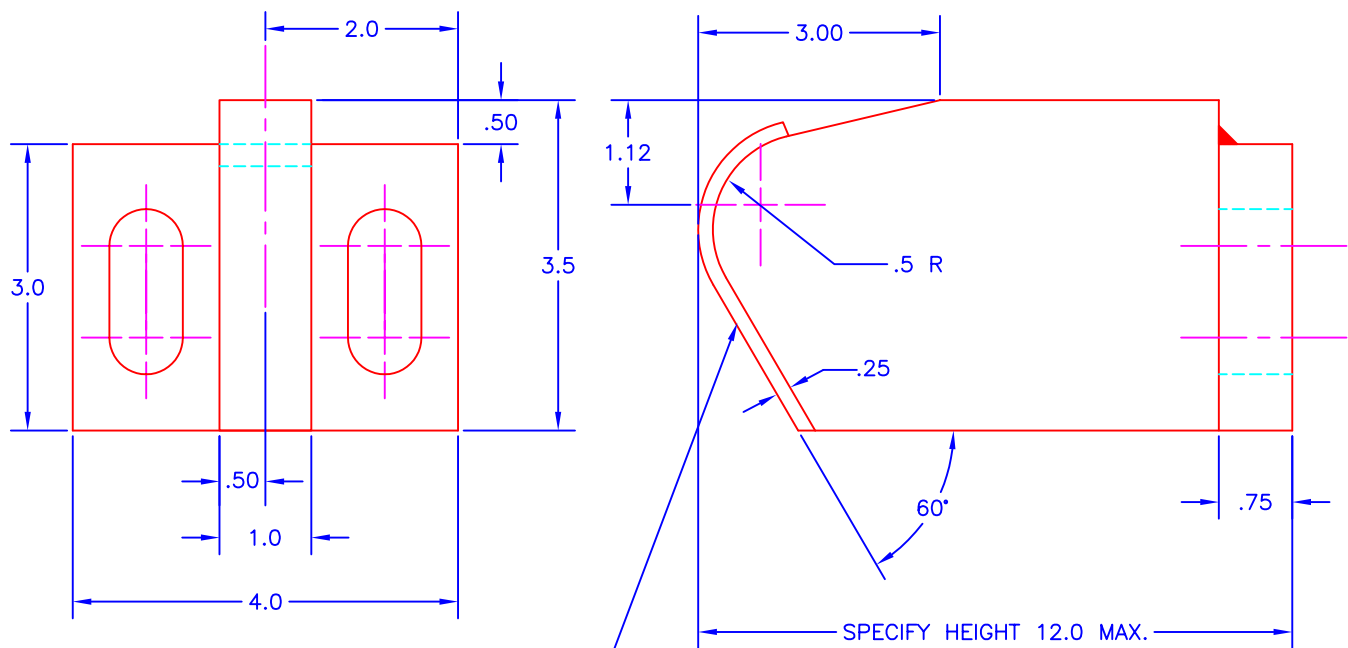
THIS ITEM IS USED IN DRAW DIES TO HELP
INSURE PROPER LOCATION OF INCOMING BLANK.

PRINTED COPY IS
UNCONTROLLED



JOLICO NO.	REF. NO.
J-41171	_____

ORDERING EXAMPLE
J-41172 X 6.0 LONG

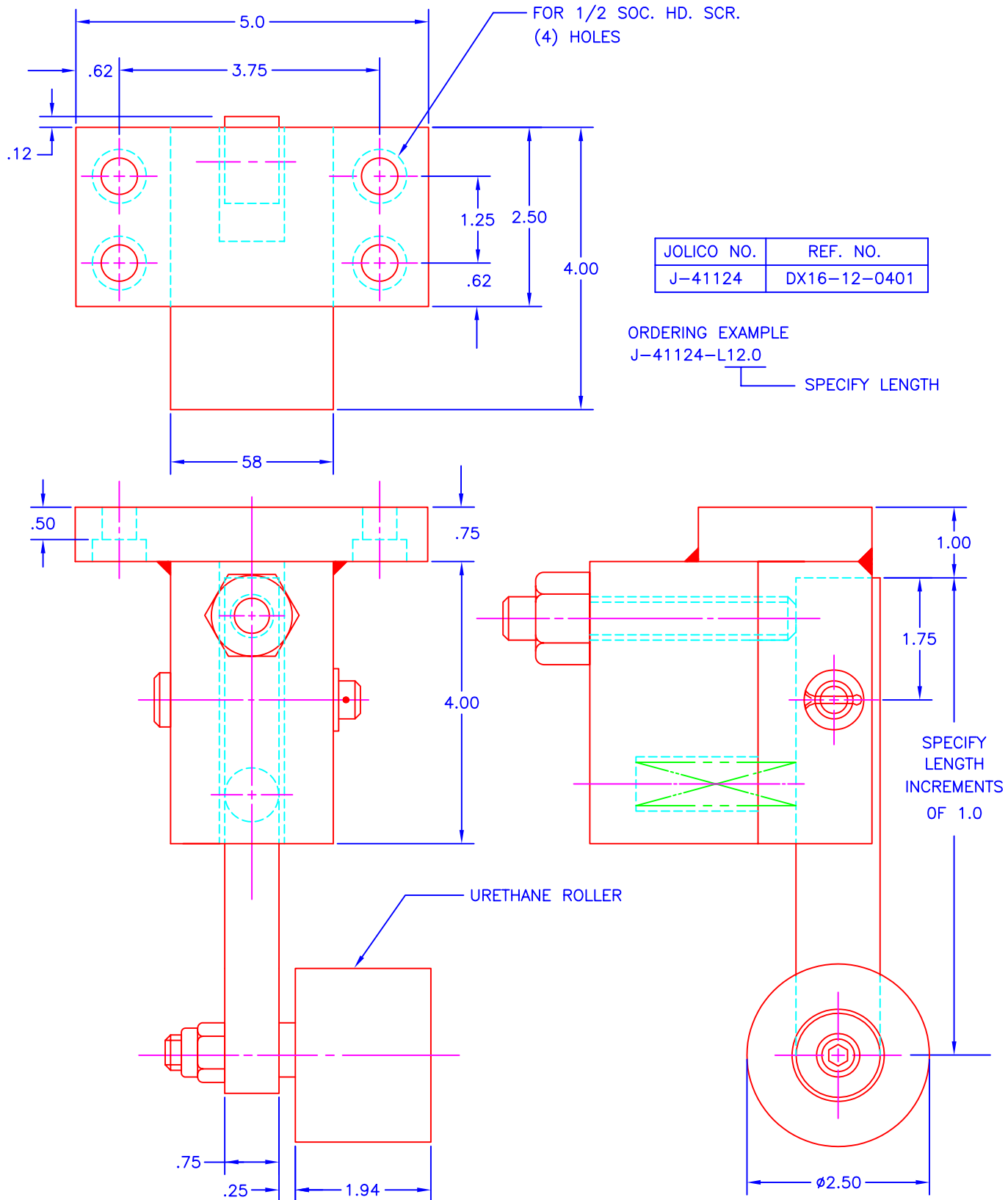


BRASS FOR OUTER PANELS

JOLICO NO.	REF. NO.
J-41172	20-180-0100

SPRING LOADED LOCATOR

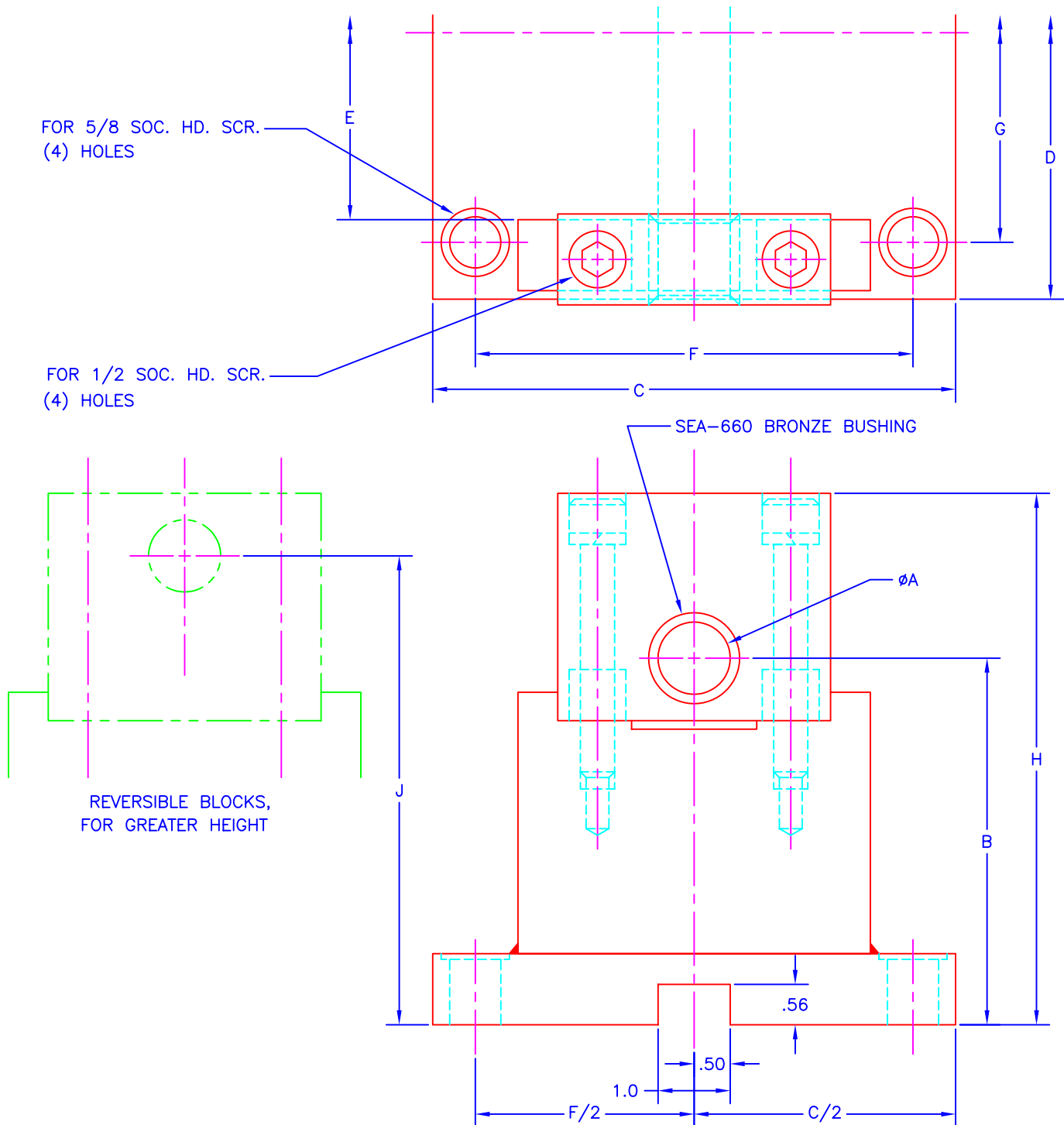
THIS UNIT IS ATTACHED TO THE PUNCH SHOE AND
PUTS PRESSURE ON A PANEL TO KEEP IT IN POSITION.
USED MAINLY IN HANG UP DIES.



TRUNNION BRACKETS

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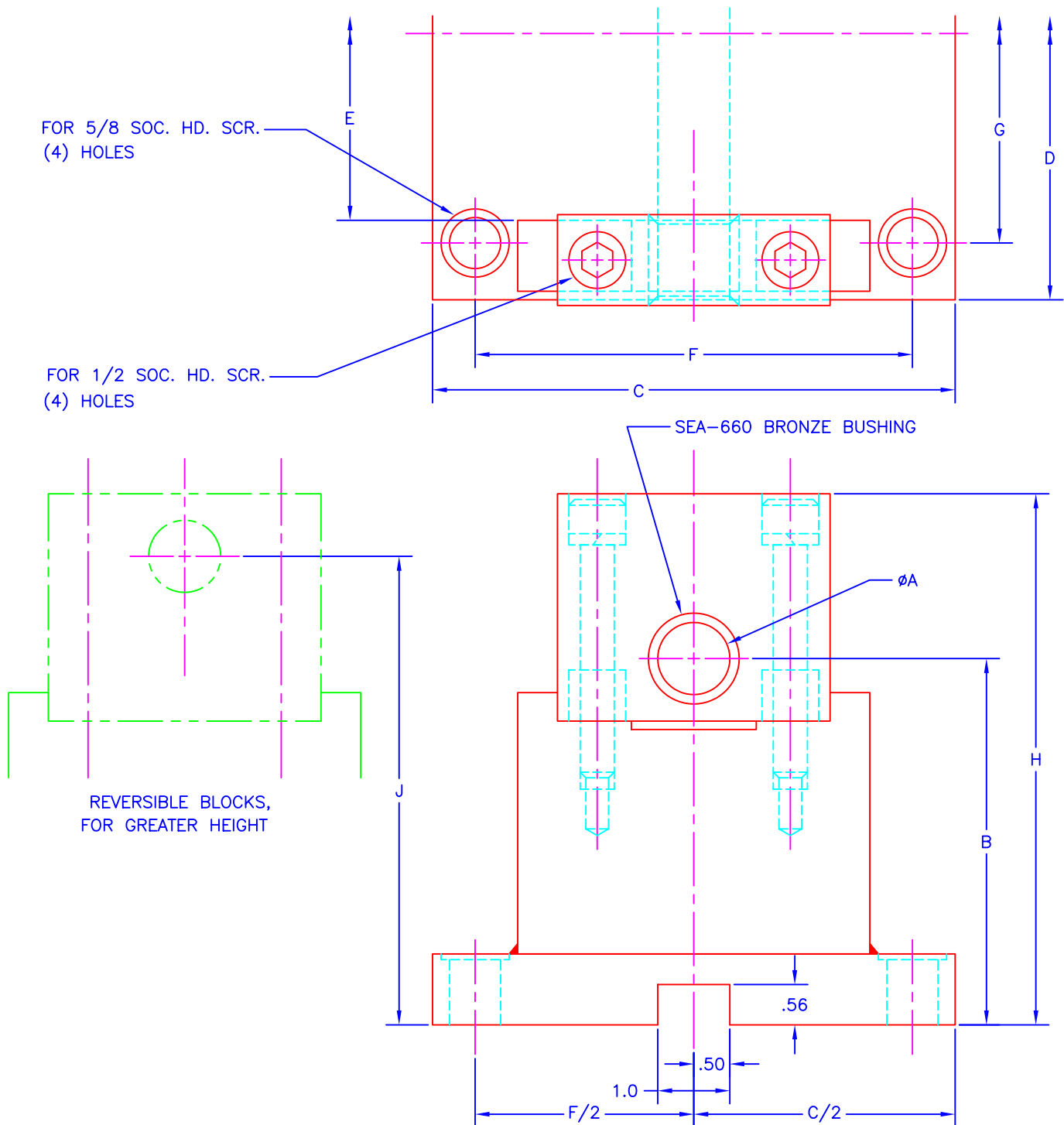
THIS DETAIL HOLDS AND RETAINS A TRUNNION TYPE AIR CYLINDER.
IT IS USED FOR INDIRECT AIR CYLINDER TYPE AUTOMATION.



JOLICO NO.	REF. NO.	REF. NO.	A	B	C	D	E	F	G	H	J	CYL. BORE
J-98301	DJ4-101	TB-140-325	1.00	4.25	7.50	7.00	4.64	6.25	5.50	6.62	5.75	3.25
J-98401	DJ4-201	TB-140-400	1.50	4.75	8.00	8.00	5.87	6.75	6.75	7.37	6.25	4.00
J-98501	DJ4-301	TB-140-450	1.50	5.12	8.00	8.75	6.38	6.75	7.50	7.75	6.62	4.50
J-98601	DJ4-401	TB-140-500	1.50	5.75	8.75	9.75	7.38	7.50	8.50	8.37	7.25	5.00

TRUNNION BRACKETS

THIS DETAIL HOLDS AND RETAINS A TRUNNION TYPE AIR CYLINDER.
IT IS USED FOR INDIRECT AIR CYLINDER TYPE AUTOMATION.

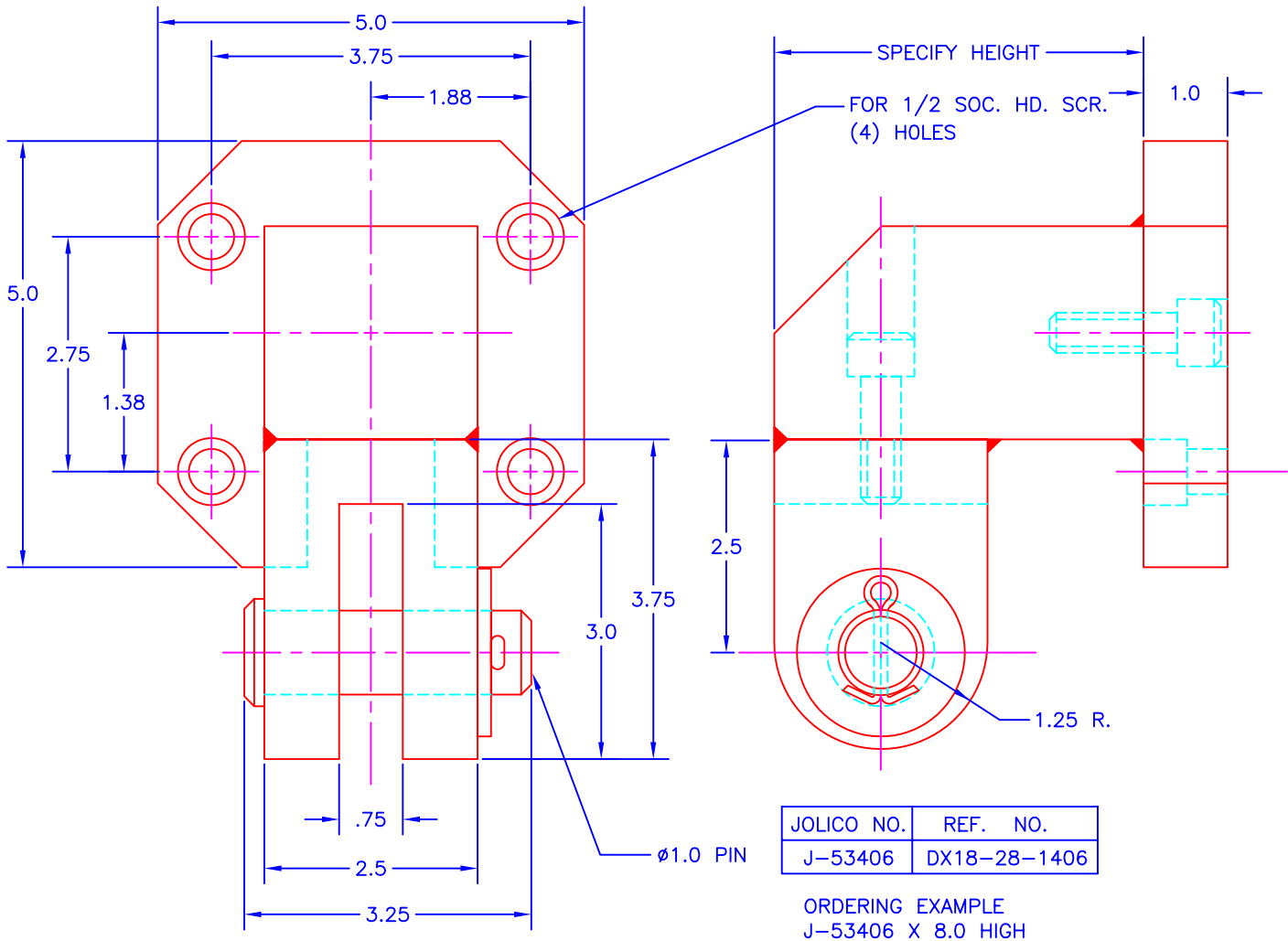


JOLICO NO.	REF. NO.	A	B	C	D	E	F	G	H	J	CYL. BORE
J-98801	CHEVY	1.00	4.25	7.50	7.00	3.88	6.25	5.50	6.62	5.75	3.25
J-98802	CHEVY	1.00	4.25	7.50	7.00	4.64	6.25	5.50	6.62	5.75	4.00
J-98803	CHEVY	1.00	4.75	8.00	8.00	5.62	6.75	6.75	7.37	6.25	5.00
J-98804	CHEVY	1.38	5.12	8.00	8.75	6.62	6.75	7.50	7.75	6.62	6.00

BLANK DEFLECTOR BRACKET

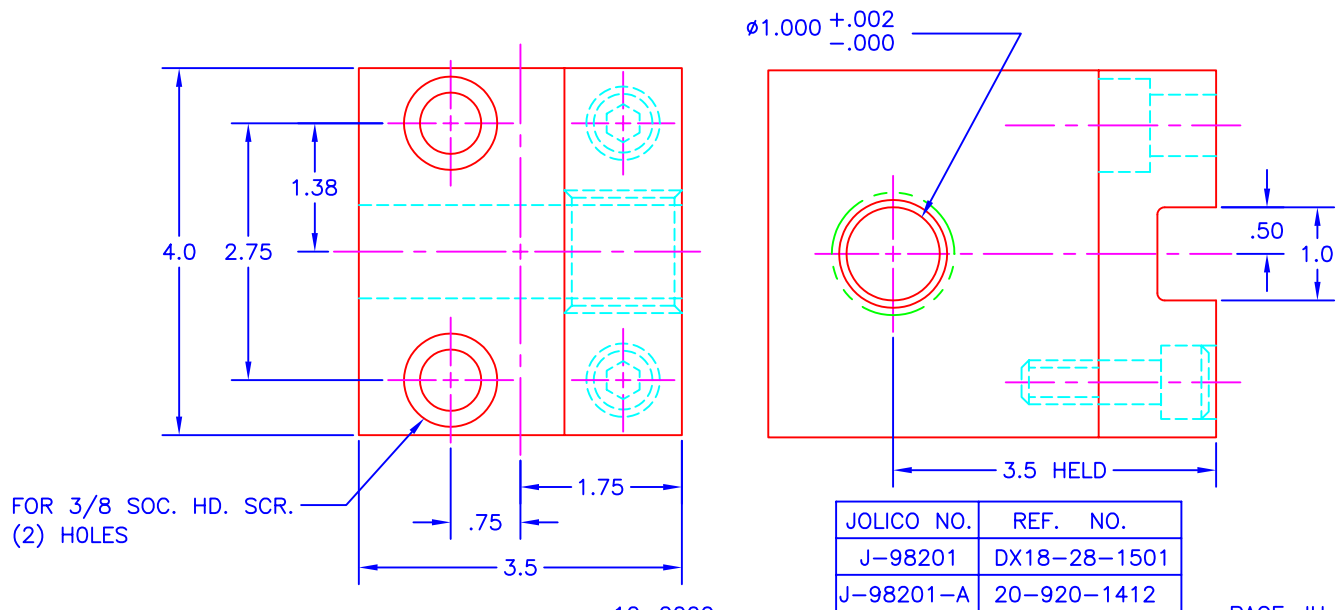
PRINTED COPY IS
UNCONTROLLED

THIS BRACKET ACTS AS A PIVOT POINT FOR BLANK
DEFLECTOR ARMS. USUALLY USED WITH AIR CYLINDER.



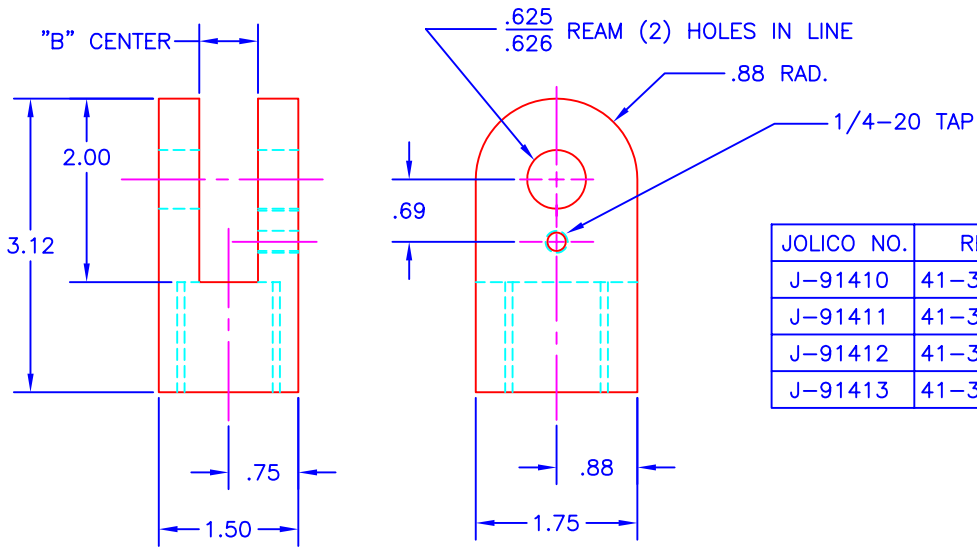
TRUNNION MOUNTING BRACKET

THIS BRACKET USED IN PAIRS WILL ACCEPT ALL TRUNNION CYLINDERS WITH
Ø1.0 PIVOT. CAN BE USED IN PLACE OF STANDARD TRUNNIONS ON PAGES 1 & 2.



CLEVISES

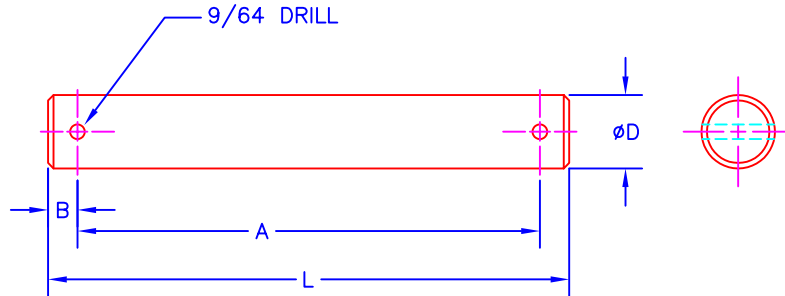
THESE DETAILS HAVE THE SAME USAGE AS THE
CLEVISES SHOWN ON PAGES 5 AND 6.



JOLICO NO.	REF. NO.	"A" TAP SIZE	B
J-91410	41-30-633-00	1"-14 NF	.78
J-91411	41-30-633-01	1"-8 NF	.78
J-91412	41-30-633-02	1"-14 NF	.62
J-91413	41-30-633-03	3/4-10 NC	.78

CLEVIS PINS

THESE DETAILS CAN BE USED IN MANY DIFFERENT
INSTANCES, FOR EXAMPLE, THE CLEVISES ABOVE.



B = .22	REF. NO.	D = .498	A	L
JOLICO NO.	1019A-			
J-39101	71	1.53	1.96	
J-39102	72	1.78	2.21	
J-39103	73	2.03	2.47	
J-39104	74	2.16	2.59	
J-39105	75	2.28	2.72	
J-39106	76	2.41	2.84	
J-39107	77	2.53	2.97	
J-39108	78	2.66	3.09	
J-39109	79	2.78	3.22	
J-39110	80	2.91	3.34	
J-39111	81	3.03	3.47	
J-39112	82	3.16	3.59	
J-39113	83	3.28	3.72	

B = .25	REF. NO.	D = .623	A	L
JOLICO NO.	1019A-			
J-39114	91	1.53	2.03	
J-39115	92	1.78	2.28	
J-39116	93	2.03	2.53	
J-39117	94	2.53	3.03	
J-39118	95	2.78	3.28	
J-39119	96	3.03	3.53	
J-39120	97	3.28	3.78	
J-39121	98	3.53	4.03	
J-39122	99	3.78	4.28	
J-39123	100	4.03	4.53	
J-39124	101	2.28	2.78	

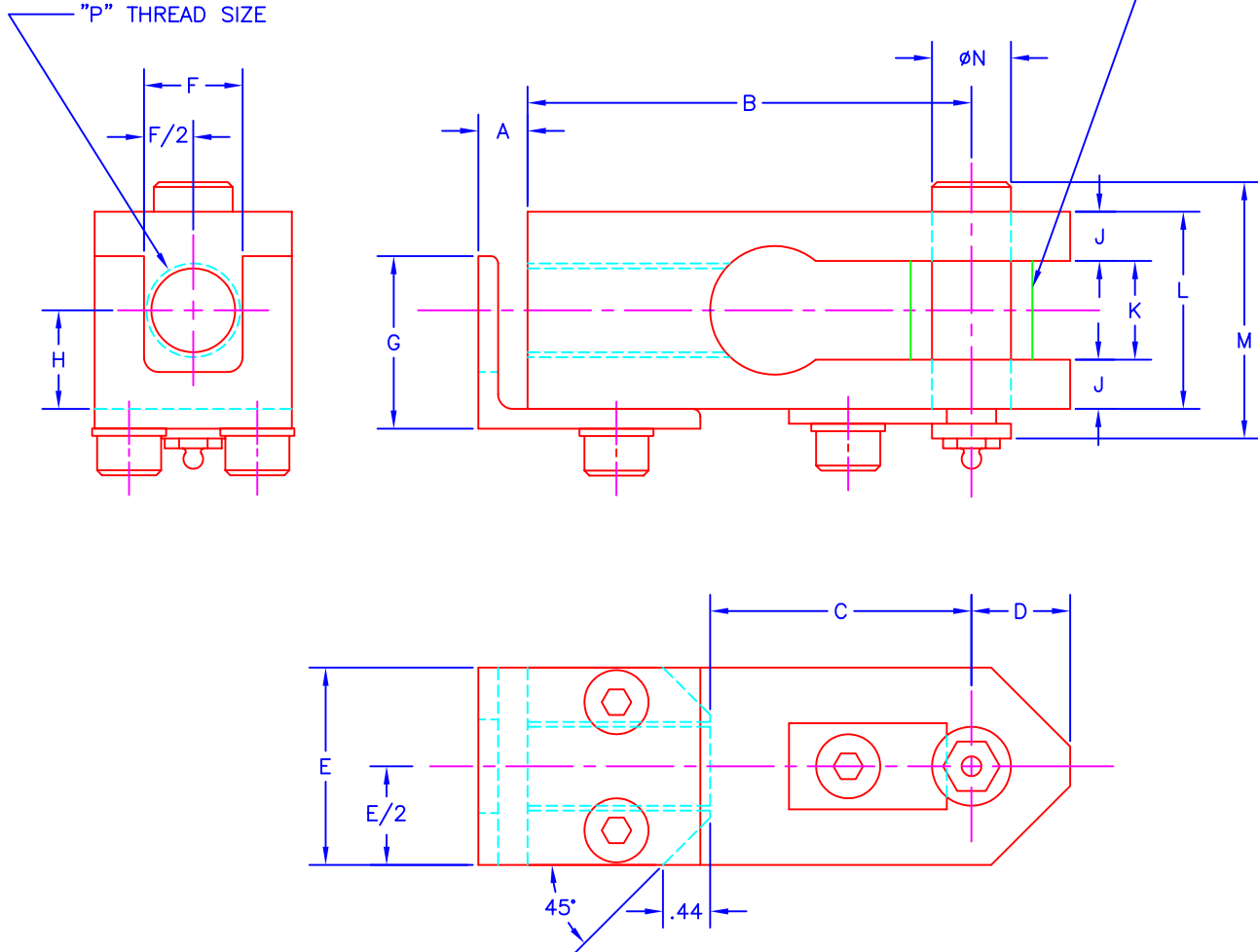
B = .28	REF. NO.	D = .748	A	L
JOLICO NO.	1019A-			
J-39125	111	1.53	2.09	
J-39126	112	1.78	2.34	
J-39127	113	2.03	2.59	
J-39128	114	2.78	3.34	
J-39129	115	3.03	3.59	
J-39130	116	3.28	3.84	
J-39131	117	3.53	4.09	
J-39132	118	3.78	4.34	
J-39133	119	4.03	4.59	
J-39134	120	4.28	4.89	
J-39135	121	4.53	5.09	
J-39136	122	4.78	5.34	
J-39137	123	5.03	5.59	

CLEVIS ASSEMBLIES

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CLEVIS ASSEMBLIES ARE USED FOR ALL TYPES OF AUTOMATION.
THEY ARE SCREWED ON TO AN AIR CYLINDER ROD, TO TRANSMIT MOTION.

FOR CLEVIS TO BE SUPPLIED WITH 1.253 O.D. BRONZE BUSHING
ADD THE SUFFIX (RC) TO THE END OF THE ORDERING NUMBER

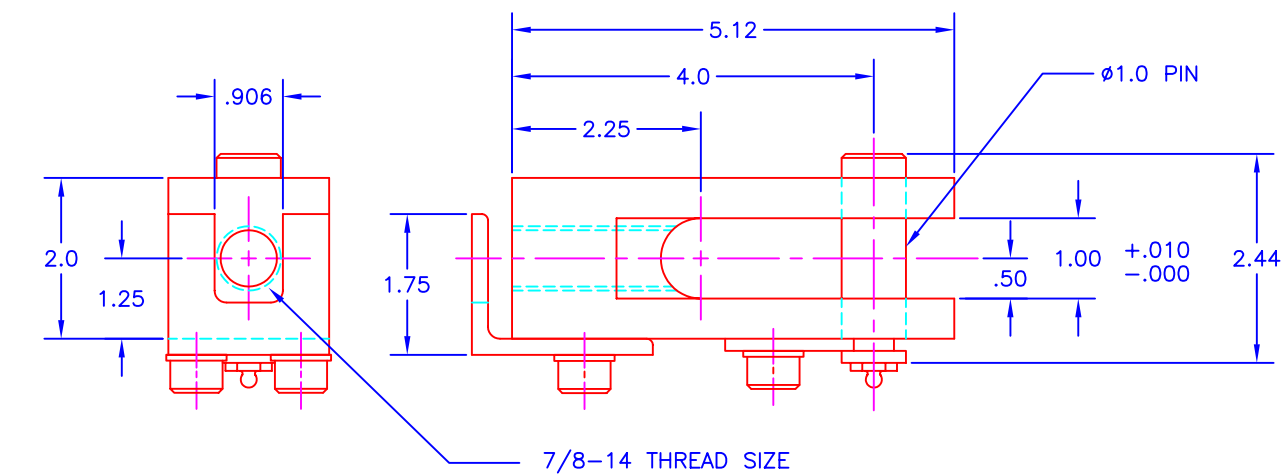


JOLICO NO.	REF. NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	CYL. BORE
J-91101	DJ5-0101	.88	4.75	2.25	1.13	2.25	1.26	2.0	1.25	.62	1.25	2.5	2.94	1.00	1-1/4-12	2.5 & 3.35
J-91102	DJ5-0201	1.00	5.25	2.25	1.25	2.50	1.47	2.0	1.50	.75	1.50	3.0	3.44	1.00	1-1/2-12	4.0 & 4.5
J-91301	DJ5-0301	1.44	6.12	2.50	1.50	3.00	2.01	2.5	1.75	.75	2.00	3.5	4.00	1.25	2-12	5.0 & 6.0
J-91101	RC-125															
J-91102	RC-150															
J-91301	RC-200															

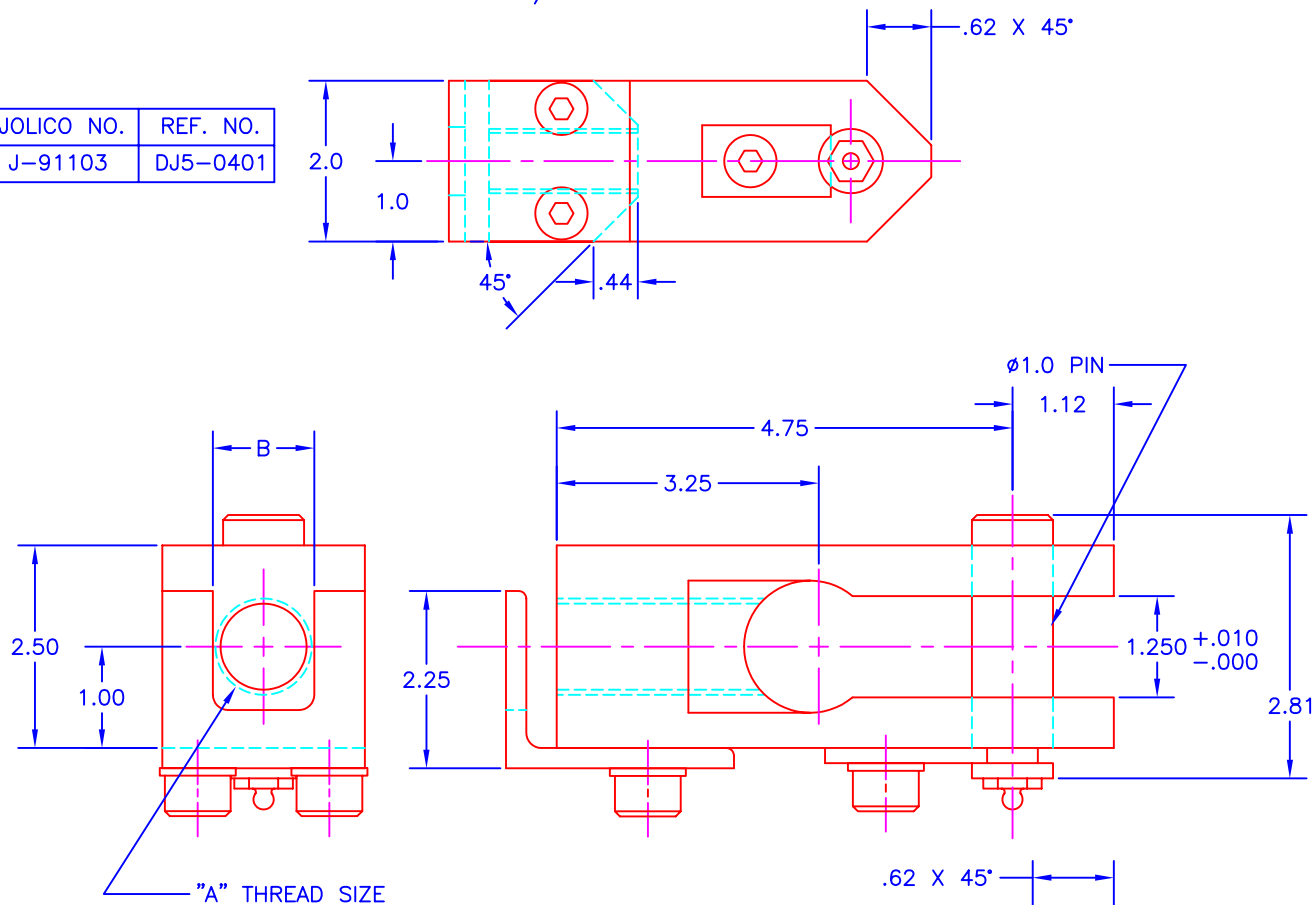
NOTE:

WILL QUOTE AND MANUFACTURE ANY SPECIALS UPON CUSTOMER REQUEST.

CLEVIS ASSEMBLIES



JOLICO NO.	REF. NO.
J-91103	DJ5-0401

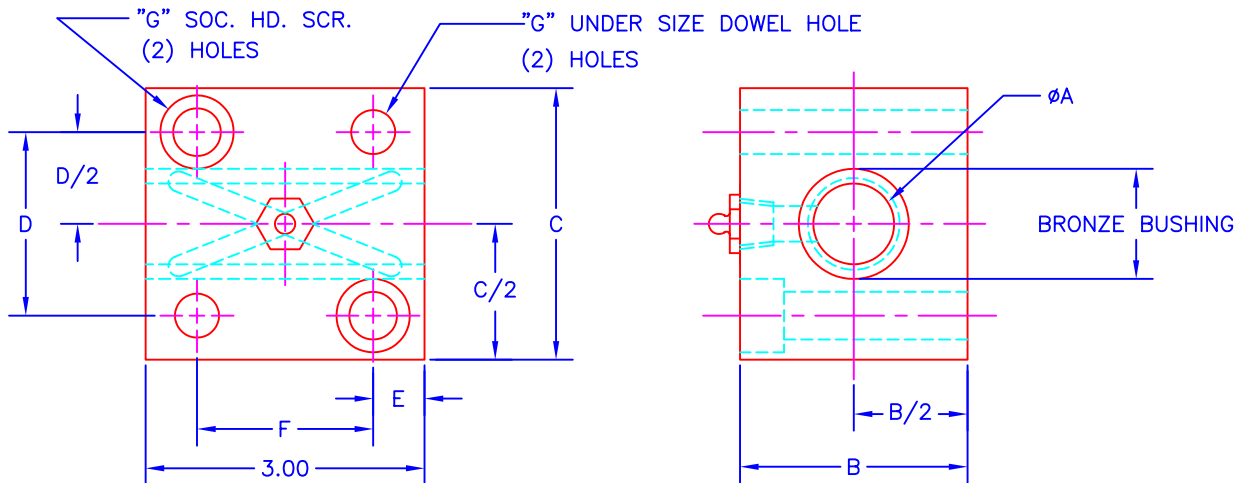


JOLICO NO.	REF. NO.	A	B
J-91105	20-950-0100	1-8	1.01
J-91106	20-950-0127	1-1/4-12	1.25

SOLID PILLOW BLOCKS

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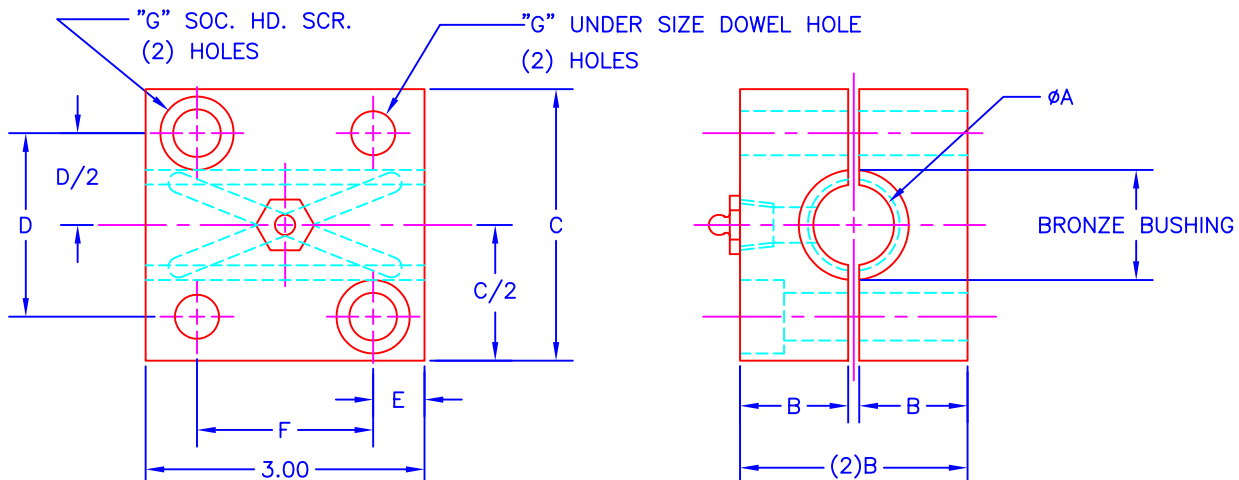
THESE PILLOW BLOCKS ARE USED WITH STANDARD JOLICO SHAFTING AND SQUARE SHAFTING THAT HAS BEEN TURNED DOWN AT EACH END.



JOLICO NO.	OLD "J" NO.	REF. NO.	REF. NO.	A	B	C	D	E	F	G
J-55360	J-72	_____	_____	1.972/1.975	3.50	4.50	3.25	.62	1.75	5/8
J-55361	J-66	RA8-0201	PB-2015	.9365/.9385	2.50	3.00	2.00	.50	2.00	1/2
J-55362	J-68	RA8-0202	PB-2023	1.4365/1.4385	3.00	4.00	2.75	.62	1.75	5/8
J-55363	J-70	RA8-0203	PB-2031	1.9365/1.9385	3.50	4.50	3.25	.62	1.75	5/8
J-55364	J-86	_____	_____	1.1865/1.1885	3.00	3.50	2.50	.50	2.00	1/2

SPLIT PILLOW BLOCKS

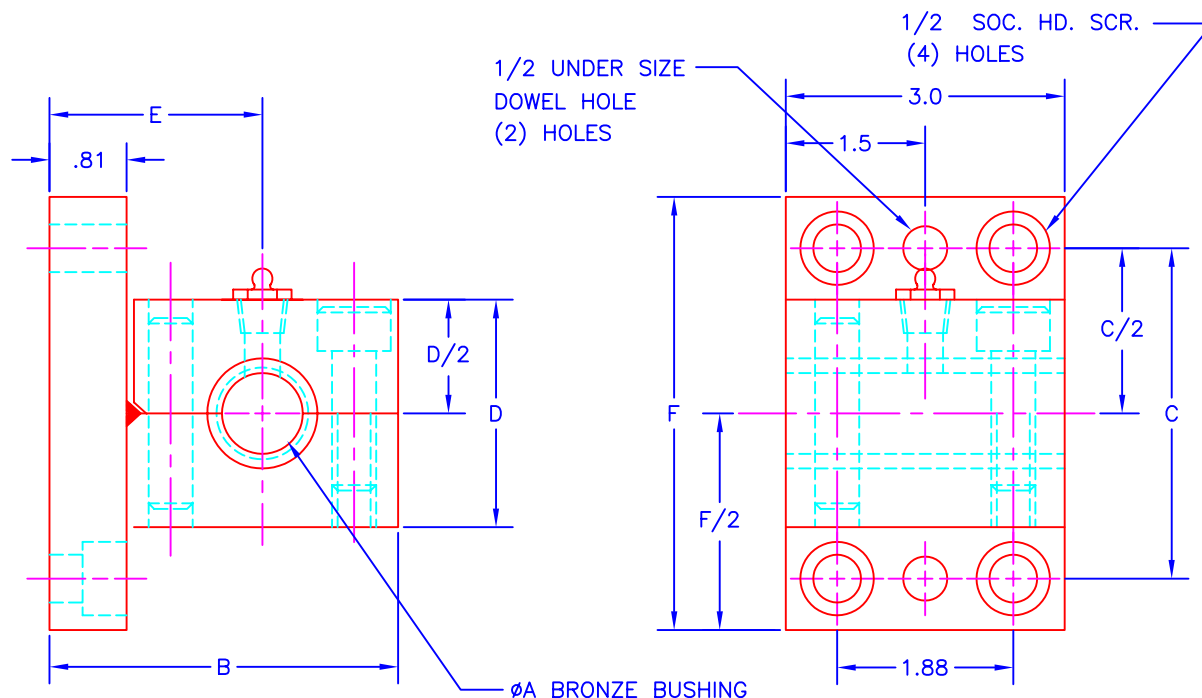
SPLIT PILLOW BLOCKS ARE USED WHEN THE SQUARE SHAFTING MUST BE HELD IN THE MIDDLE. THE SHAFTING MUST BE TURNED DOWN TO THE APPROPRIATE DIAMETER.



JOLICO NO.	OLD "J" NO.	REF. NO.	REF. NO.	A	B	C	D	E	F	G
J-55370	J-73	_____	_____	1.972/1.975	1.75	4.50	3.25	.62	1.75	5/8
J-55371	J-67	RA8-0301	PB-1015	.9365/.9385	1.25	3.00	2.00	.50	2.00	1/2
J-55372	J-69	RA8-0302	PB-1023	1.4365/1.4385	1.50	4.00	2.75	.62	1.75	5/8
J-55373	J-71	RA8-0303	PB-1031	1.9365/1.9385	1.75	4.50	3.25	.62	1.75	5/8
J-55374	J-87	_____	_____	1.1865/1.1885	1.50	3.50	2.50	.50	2.00	1/2

SIDE MOUNTING PILLOW BLOCKS

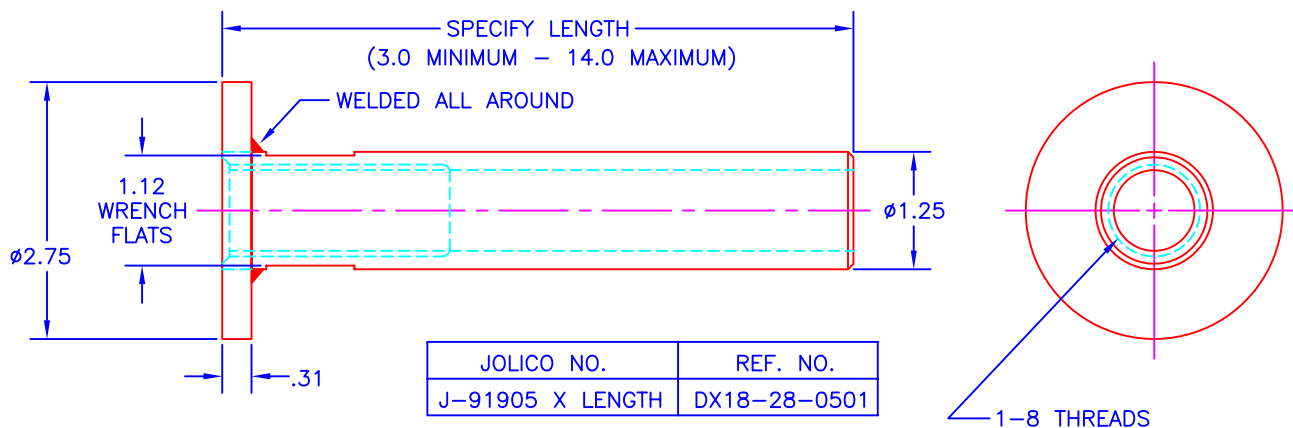
THESE PILLOW BLOCKS ALLOW FASTENING TO THE SIDE OF A RISER OR SUPPORT BLOCKS. IT IS ADVISED THAT ALL PILLOW BLOCKS BE FASTENED IN SAME DIRECTION TO ELIMINATE THE POSSIBILITY OF ANY WARPAGE OF THE SHAFT DUE TO SCREW TENSION.



JOLICO NO.	OLD "J" NO.	REF. NO.	REF. NO.	A	B	C	D	E	F
J-55380	—	—	—	1.9725/1.9745	5.375	4.62	3.50	3.125	5.75
J-55381	J-78	RA8-0101	PB-3015	.9365/.9385	3.875	3.62	2.50	2.375	4.75
J-55382	J-79	RA8-0102	PB-3023	1.4365/1.4385	4.875	3.88	3.00	2.875	5.00
J-55383	J-80	RA8-0103	PB-3031	1.9365/1.9385	5.375	4.62	3.50	3.125	5.75
J-55384	J-88	—	—	1.1865/1.1885	4.375	3.88	3.00	2.625	5.00

KICKER EXTENSIONS

THE DETAILS ARE SCREWED ON THE END OF A CYLINDER TO KICK SMALL PARTS OUT OF THE DIE. THE EXTENSION KEEPS THE CYLINDER ROD OUT OF THE WORKING AREA.

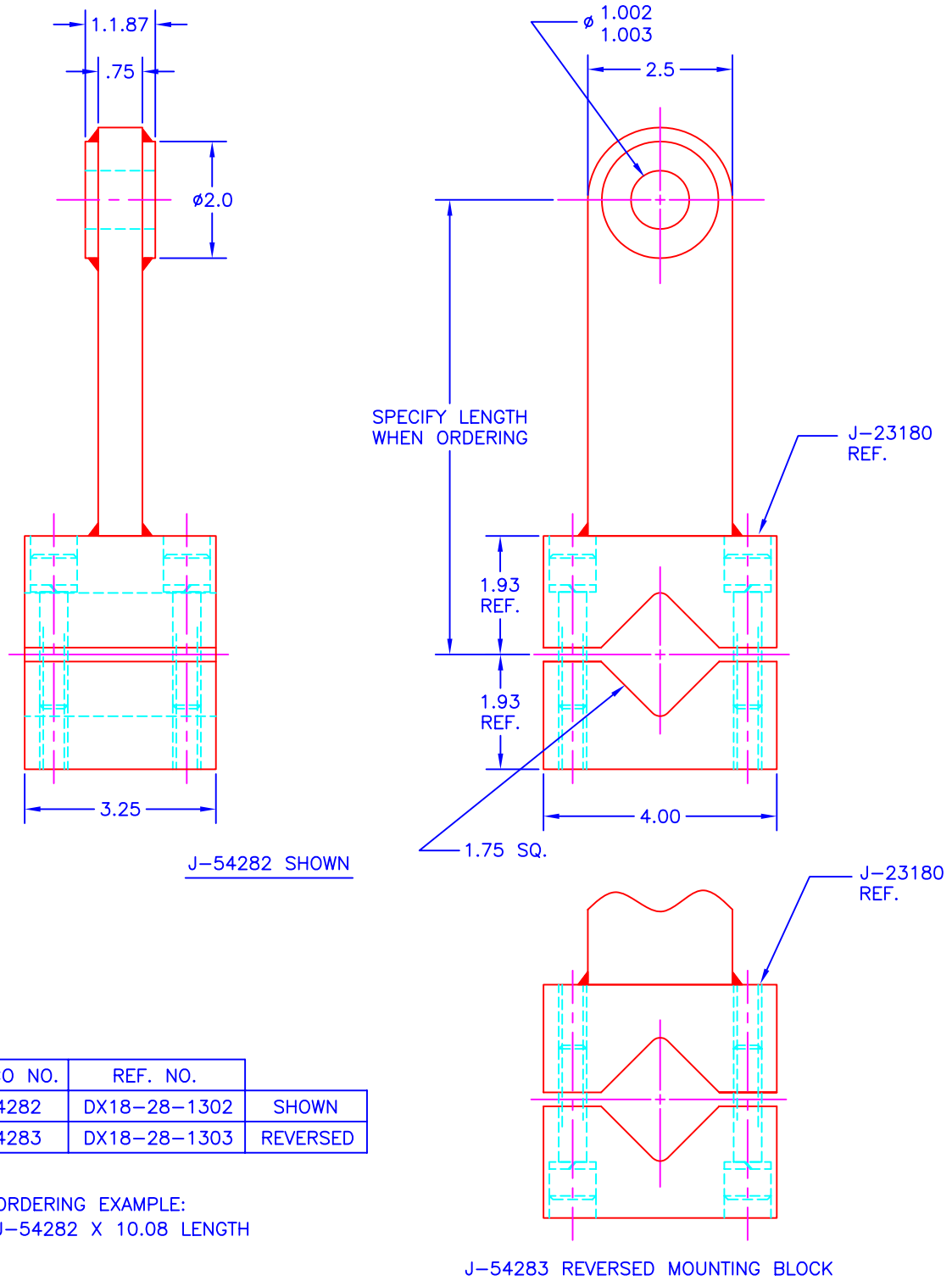


JOLICO NO.	REF. NO.
J-91905 X LENGTH	DX18-28-0501

DIE PUSHER ARM ASSEMBLY STRAIGHT

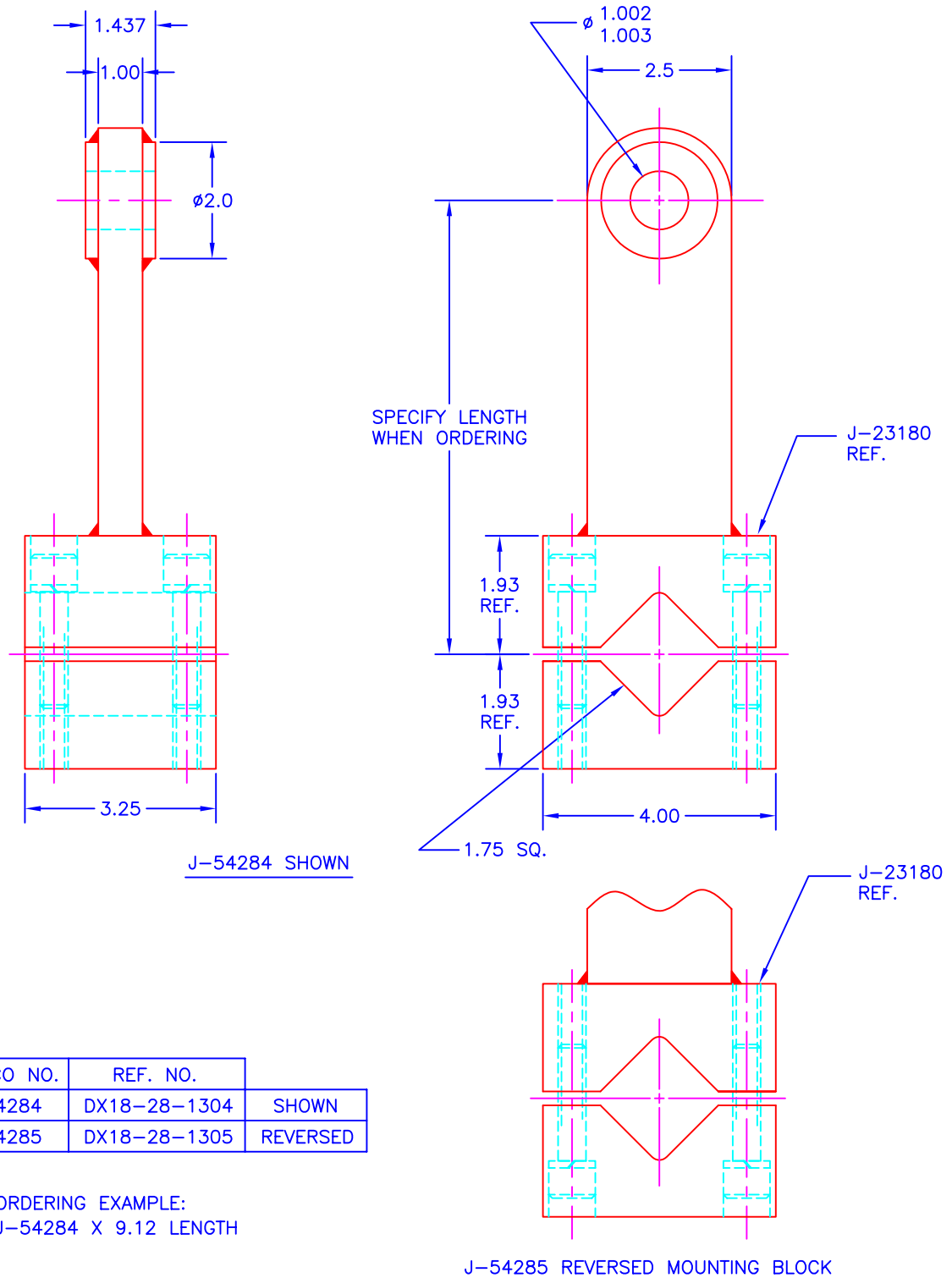
PRINTED COPY IS
UNCONTROLLED

THIS ITEM LINKS THE AUTOMATION SHAFTING THRU A CLEVIS
TO AN AIR CYLINDER. THIS ALLOWS THE MOTION OF THE CYLINDER
TO BE TRANSFERRED TO SHAFTING. TO BE USED WITH SHAFTING
SHOWN ON PAGE JH-20.



DIE PUSHER ARM ASSEMBLY STRAIGHT

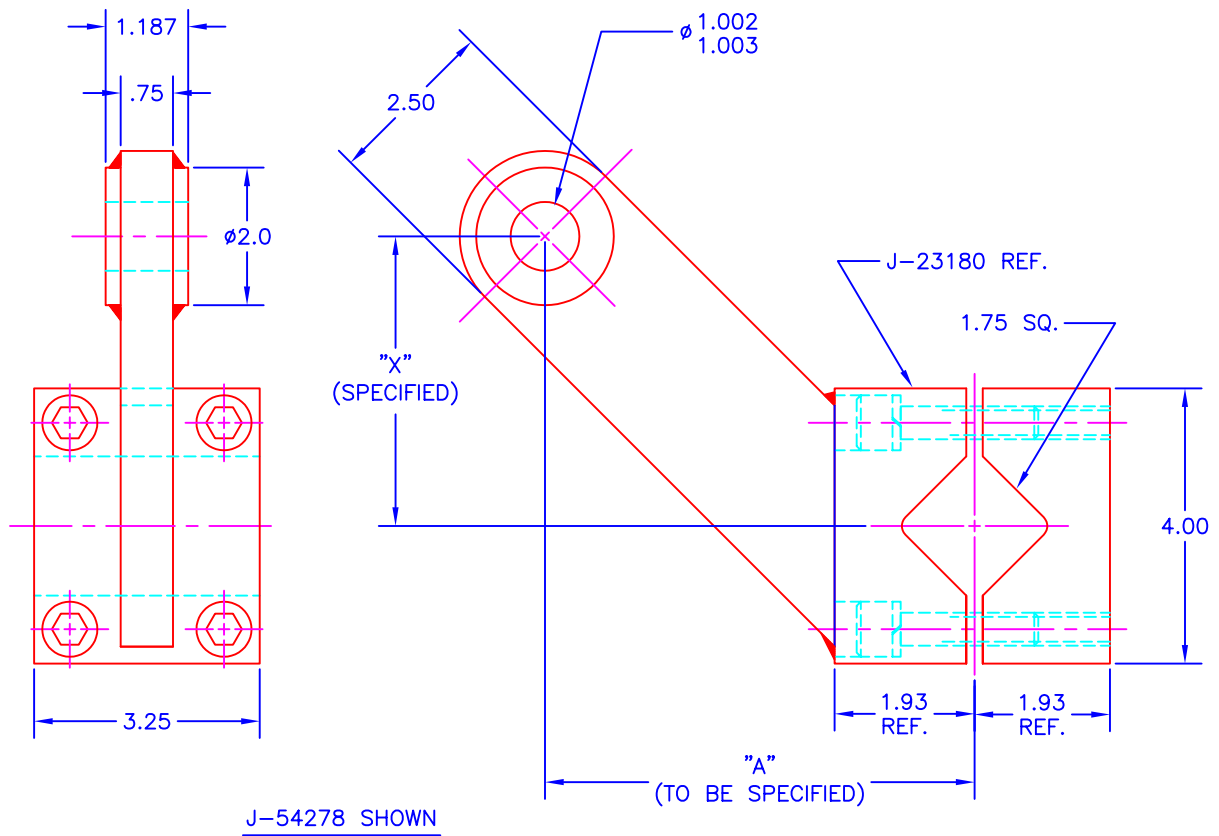
THIS ITEM LINKS THE AUTOMATION SHAFTING THRU A CLEVIS
TO AN AIR CYLINDER. THIS ALLOWS THE MOTION OF THE CYLINDER
TO BE TRANSFERRED TO SHAFTING. TO BE USED WITH SHAFTING
SHOWN ON PAGE JH-20.



DIE PUSHER ARM ASSEMBLY ANGLED

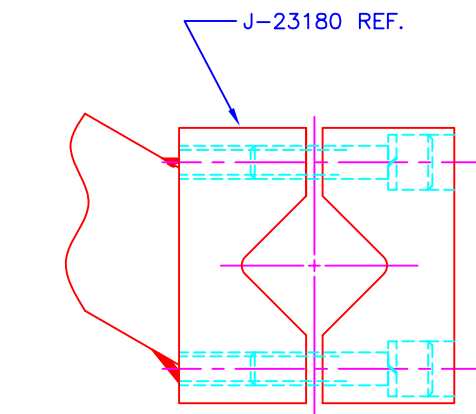
TO BE USED WITH SHAFTING SHOWN ON JH-20

PRINTED COPY IS
UNCONTROLLED



JOLICO NO.	REF. NO.	
J-54278	DX18-28-1701	SHOWN
J-54279	DX18-28-1702	REVERSED

ORDERING EXAMPLE:
J-54278 - A= 13 - X = 7.5



J-54279 REVERSED MOUNTING BLOCK

DIE PUSHER ARM ASSEMBLY ANGLED
TO BE USED WITH SHAFTING SHOWN ON JH-20



ORDERING EXAMPLE:
J-54280- A= 10 - X = 12



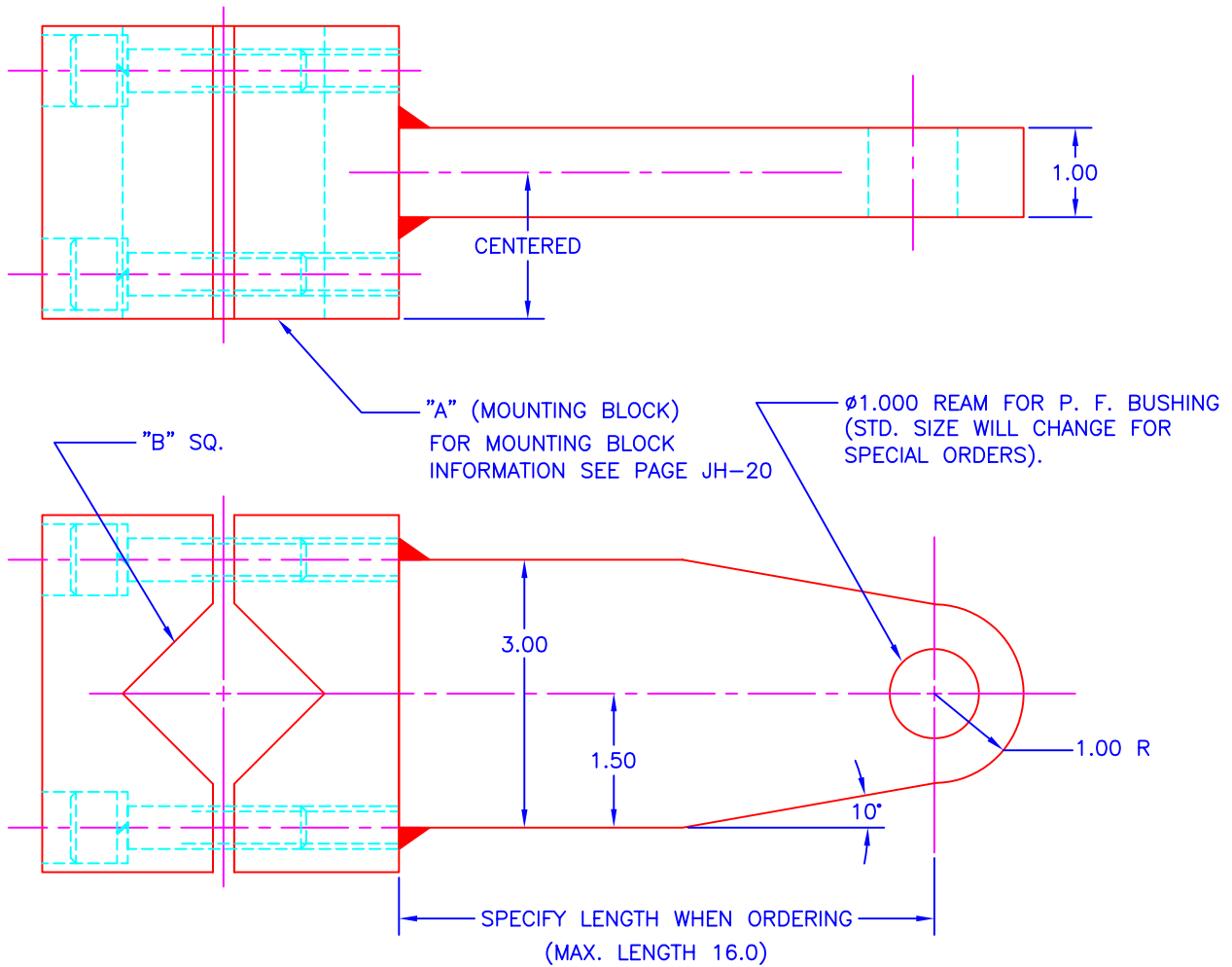
AUTOMATION ARM ASSEMBLIES

PRINTED COPY IS
UNCONTROLLED

THE FUNCTION OF THESE ARM ASSEMBLIES ARE THE SAME
AS THE FUNCTION OF THE DETAIL ON THE PREVIOUS PAGES.

NOTE:

AUTOMATION ARM ASSEMBLIES MAY BE PURCHASED WITH
MOUNTING BLOCKS CALLED OUT BELOW. UNITS WILL BE
SOLD AS ASSEMBLIES ONLY.



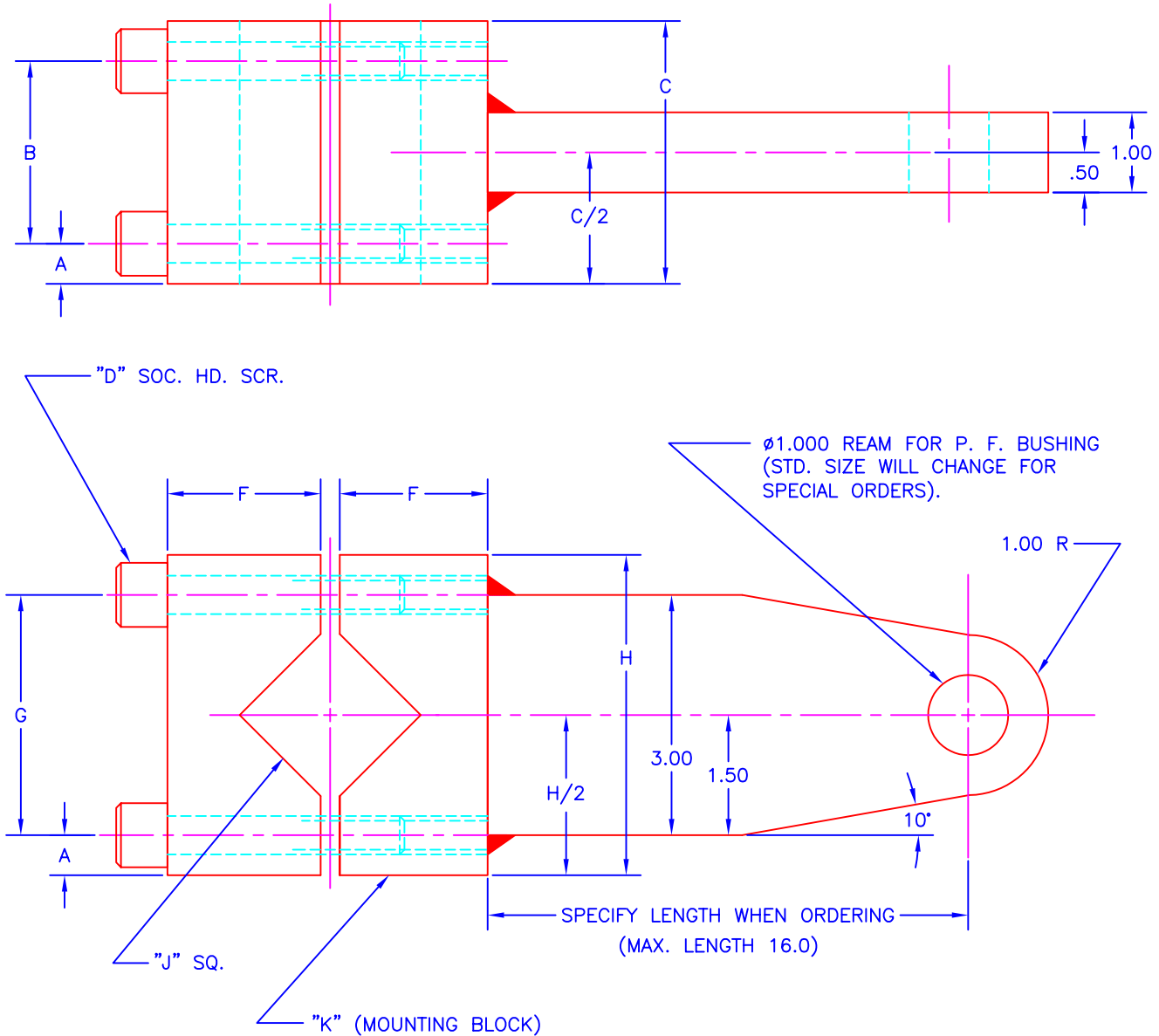
JOLICO NO.	"A" (MTG. BLK.)	"B" SQ.
J-56180	J-23180	1.75
J-56181	J-23181	1.00
J-56182	J-23182	1.50
J-56183	J-23183	2.00
J-56189	J-23189	1.25
J-56190	J-23190	1.25
J-56280	J-23280	1.75
J-56281	J-23281	1.00
J-56282	J-23282	1.50
J-56283	J-23283	2.00
J-56289	J-23289	1.25
J-56290	J-23290	1.25

ORDERING EXAMPLE:

J-56180 X 14.0 LONG

LEVER ASSEMBLIES

THESE ARM ASSEMBLIES ARE USED THE SAME AS ON PAGE JH-9.
IT TRANSFER THE MOTION OF THE AIR CYLINDER TO THE
AUTOMATION SHAFTING.



ORDERING EXAMPLE:

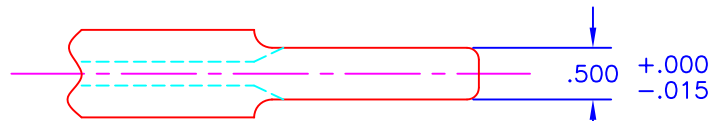
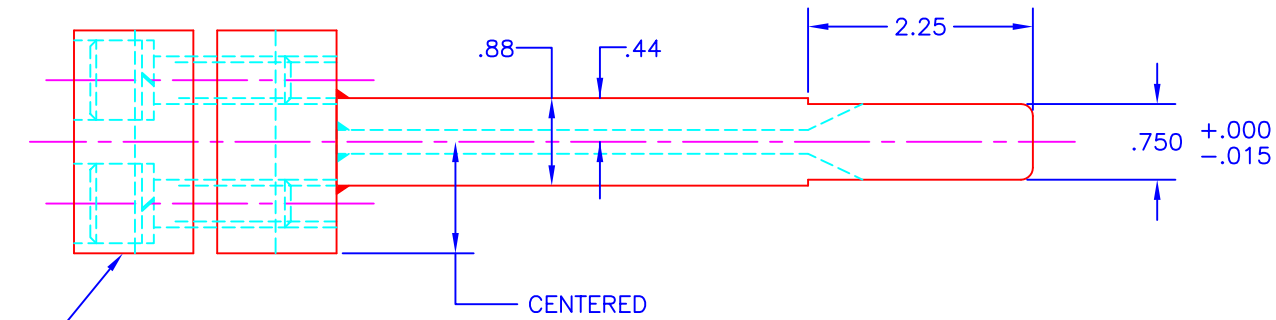
J-56514 X 14.0 LONG

JOLICO NO.	REF. NO.	A	B	C	D	E	F	G	H	J	K (MTG. BLK.)
J-56511	0627511	.50	1.50	2.50	1/2-13	1.20	1.40	2.25	3.25	1.25	J-23511
J-56514	0627514	.50	2.25	3.25	1/2-13	1.90	1.90	3.00	4.00	1.50	J-23514

FORGED LIFTER ARM ASSEMBLY

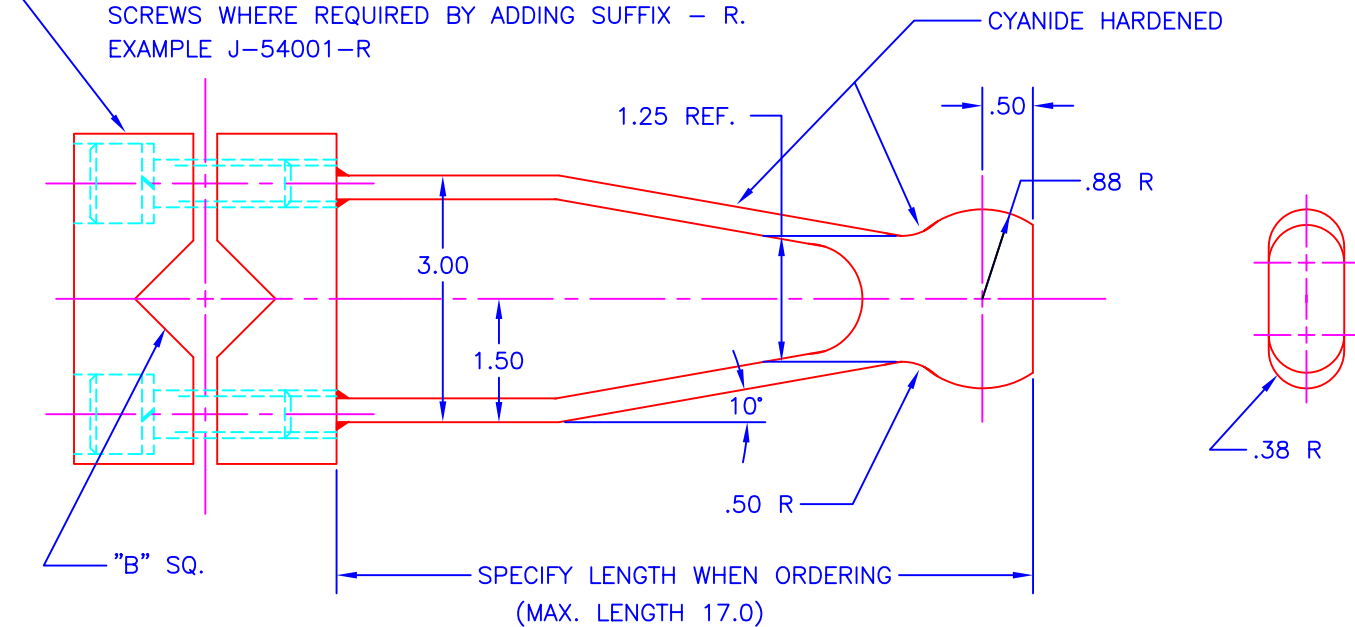
PRINTED COPY IS
UNCONTROLLED

THESE ASSEMBLIES TRANSMIT MOTION FROM THE
AUTOMATION SHAFTING TO A LIFTER PIN.



STANDARD WHEN USING MOUNTING
BLOCK J-23190 ONLY.

ASSEMBLIES MAY BE ORDERED WITH REVERSED
SCREWS WHERE REQUIRED BY ADDING SUFFIX - R.
EXAMPLE J-54001-R

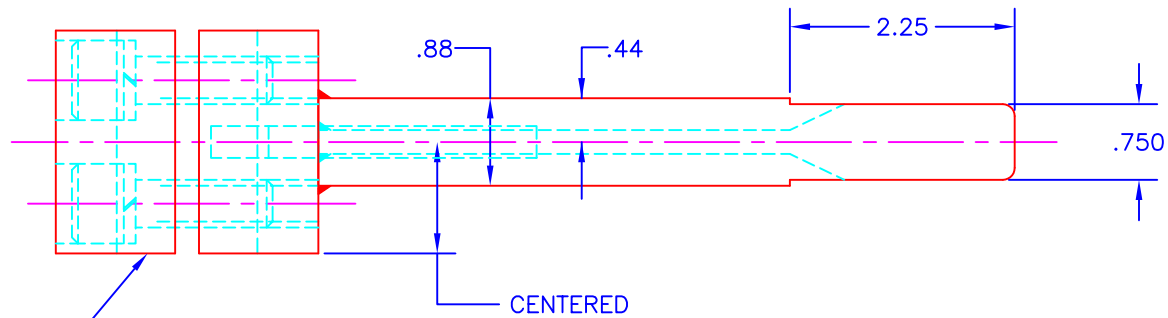


JOLICO NO.	REF. NO.	REF. NO.	"A" (MTG. BLK.)	B
J-54001	_____	_____	J-23181	1.00
J-54002	_____	_____	J-23182	1.50
J-54003	_____	_____	J-23183	2.00
J-54004	_____	_____	J-23189	1.25
J-54101	DX18-28-0901	AL-28	J-23180	1.75
J-54102	_____	_____	J-23190	1.25

ORDERING EXAMPLE:
J-54101 X 15.0 LONG

FORGED LIFTER ARM ASSEMBLY

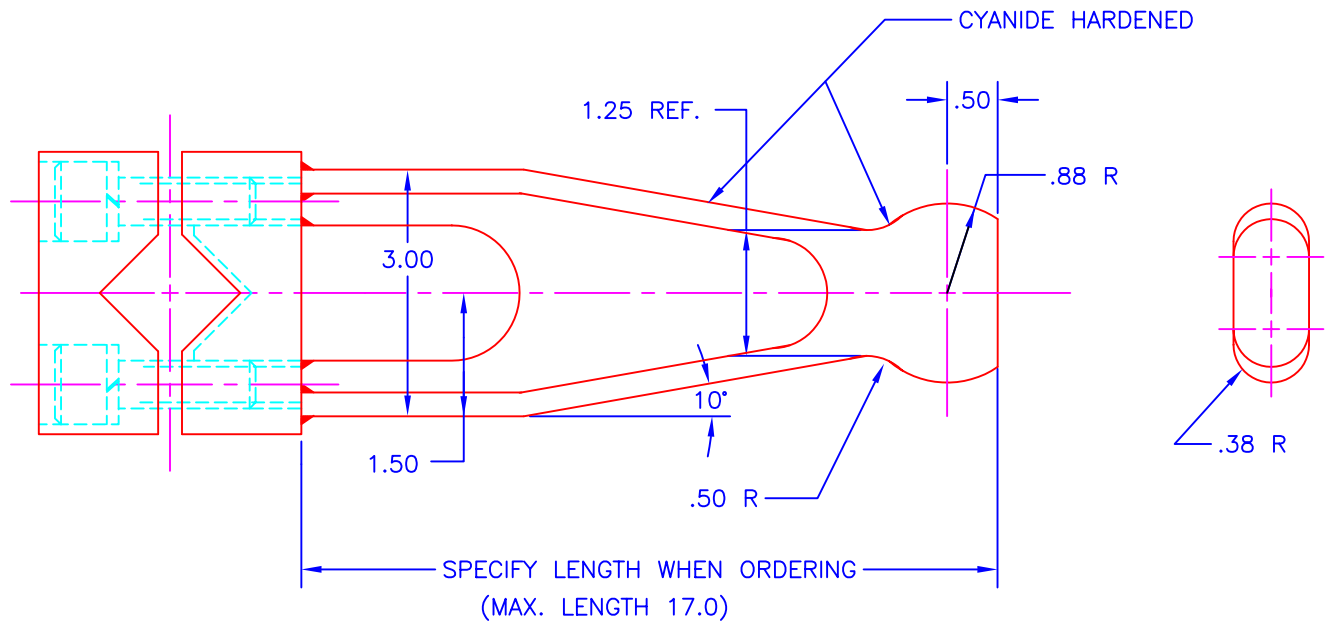
THESE ASSEMBLIES TRANSMIT MOTION FROM THE
AUTOMATION SHAFTING TO A LIFTER PIN.



FOR MOUNTING BLOCK
INFORMATION SEE PAGE JH-21

JOLICO NO.
J-54007

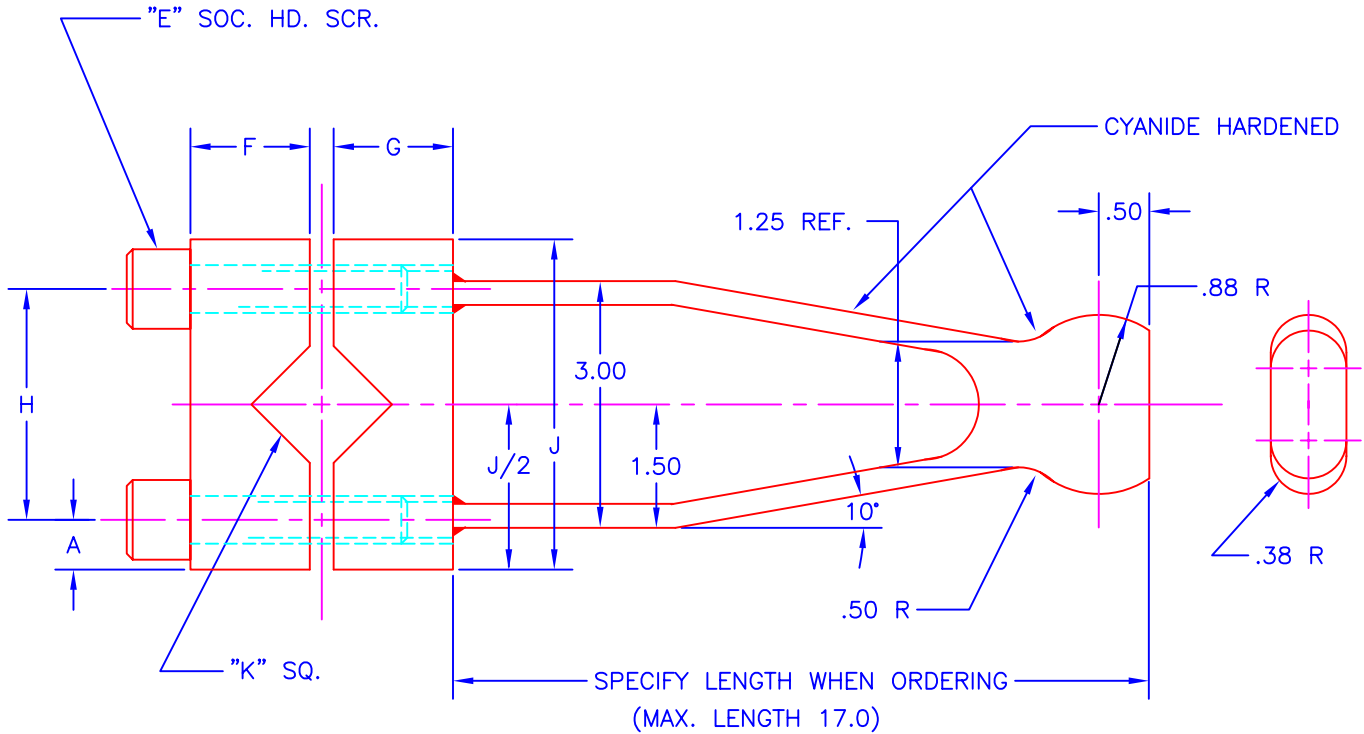
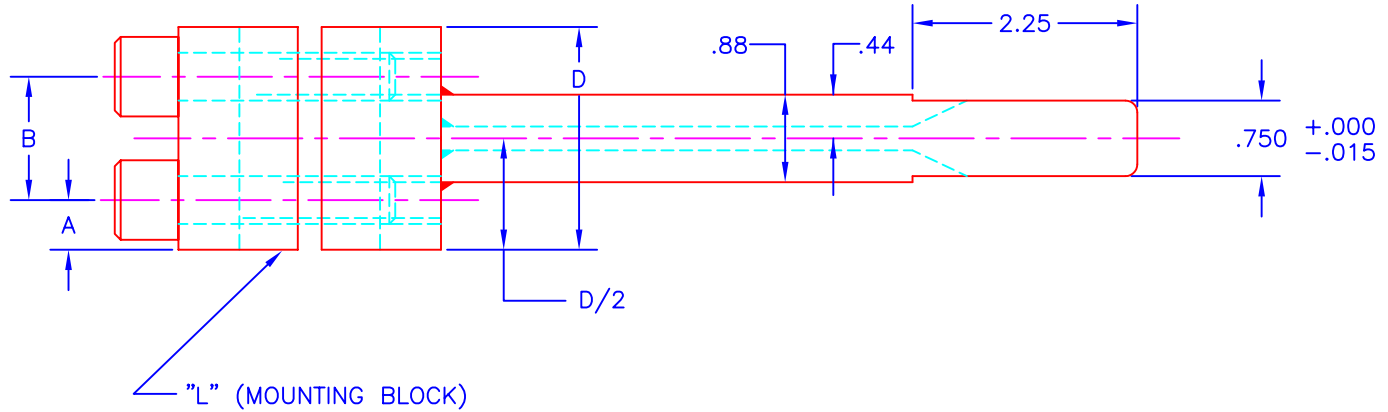
ORDERING EXAMPLE:
J-54007 X 15.0 LONG



LIFTER ARM ASSEMBLY

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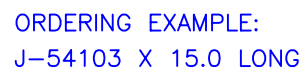
THESE LIFTER ARMS DIFFER FROM THOSE SHOWN
ON PAGE JH-15 BY THE TYPE OF MOUNTING BLOCK.

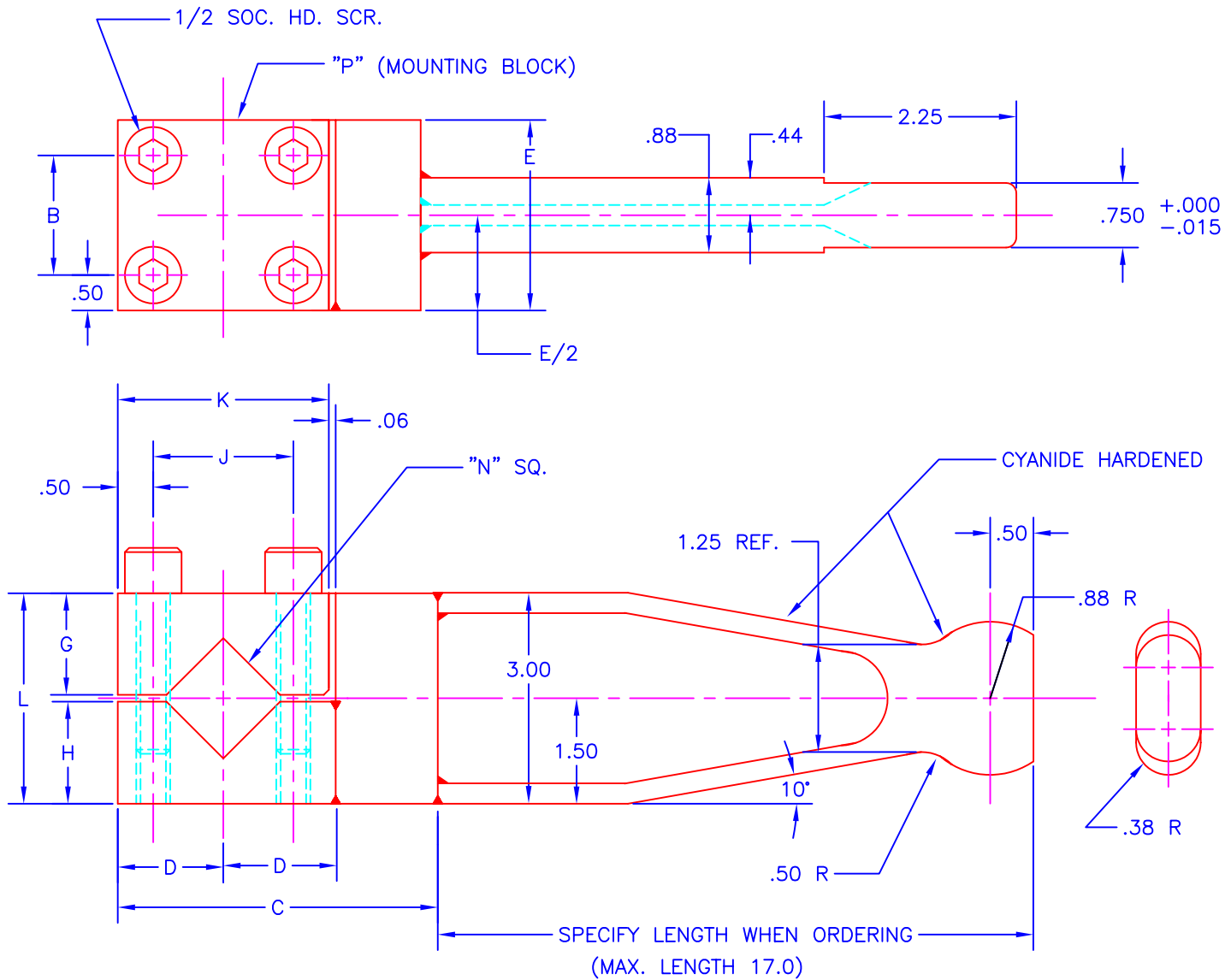


JOLICO NO.	A	B	C	D	E	F	G	H	J	K	"L" (MTG. BLK.)
J-54501	0.50	1.50	0.81	2.50	1/2-13	1.20	1.40	2.25	3.25	1.00	J-23510
J-54502	0.50	2.25	1.19	3.25	1/2-13	1.90	1.90	3.00	4.00	1.50	J-23182
J-54503	.062	2.25	1.31	3.50	5/8-11	2.40	2.40	3.75	5.00	2.00	J-23183

ORDERING EXAMPLE:
J-54502 X 15.0 LONG

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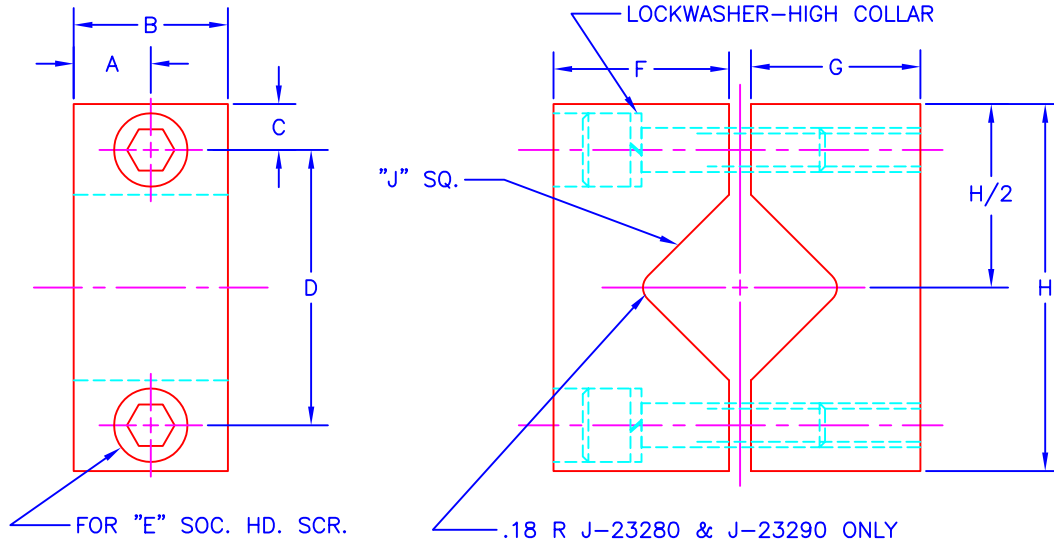


JOLICO NO.	REF. NO.	B	C	D	E	G	H	J	K	L	M	N	"P" (MTG. BLK.)
J-54142	0600142	1.50	4.50	1.62	2.50	1.50	1.50	2.25	3.25	3.12	1.56	1.25	J-23642
J-54145	0600145	2.25	5.25	2.00	3.25	1.90	1.90	3.00	4.00	3.75	1.96	1.50	J-23645

ORDERING EXAMPLE:
J-54142 X 16.0 LONG

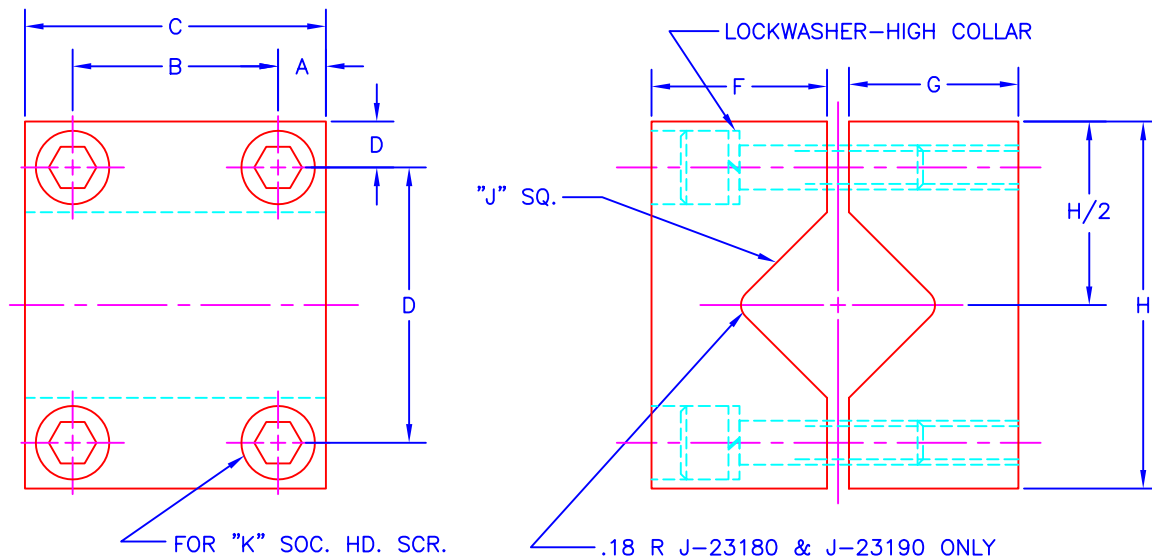
LIFTER ARM MOUNTING BLOCK

THESE MOUNTING BLOCKS PERMIT A DESIGNER TO USE A SPECIAL ARM. THE SPECIAL ARM IS THEN WELDED TO ONE OF THESE DETAILS.



NOTE: LIFTER ARM MOUNTINGS ARE TWO PIECE ASSEMBLY

JOLICO NO.	REF. NO.	A	B	C	D	E	F	G	H	J
J-23280	J-55201-B	.82	1.62	.50	3.00	1/2-13	1.90	1.90	4.00	1.75
J-23281	J-81-B	.62	1.25	.50	2.25	1/2-13	1.20	1.40	3.25	1.00
J-23282	J-82-B	.82	1.62	.50	3.00	1/2-13	1.90	1.90	4.00	1.50
J-23283	J-83-B	.88	1.75	.62	3.75	5/8-11	2.40	2.40	5.00	2.00
J-23289	J-89-B	.75	1.50	.50	3.00	1/2-13	1.75	1.75	4.00	1.25
J-23290	—	.62	1.25	.38	2.25	3/8-16	1.48	1.48	3.00	1.25



NOTE: LIFTER ARM MOUNTINGS ARE TWO PIECE ASSEMBLY

NOT:

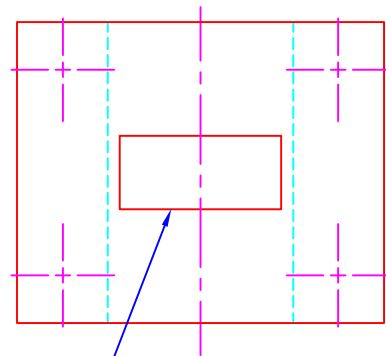
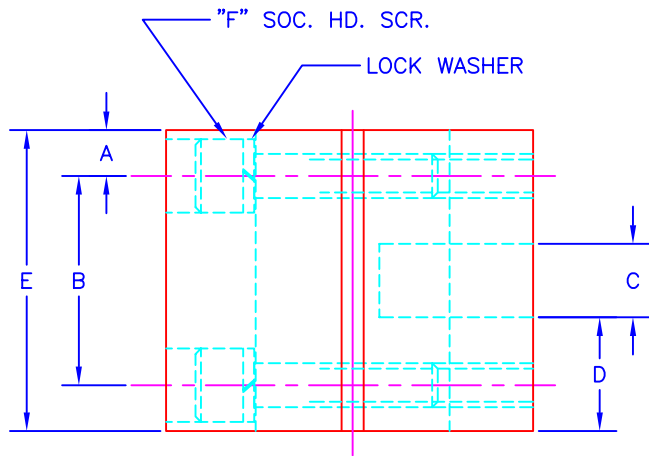
J-23281 & J-23181
MAY BE ORDERED WITH
"REVERSED SCREWS"
BY ADDING A SUFFIX
(R) EXP: J-23181-R

JOLICO NO.	REF. NO.	A	B	C	D	E	F	G	H	J	K
J-23180	J-55201-A	.50	2.25	3.25	.50	3.00	1.90	1.90	4.00	1.75	1/2-13
J-23181	J-81-A	.50	1.50	2.50	.50	2.25	1.20	1.40	3.25	1.00	1/2-13
J-23182	J-82-A	.50	2.25	3.25	.50	3.00	1.90	1.90	4.00	1.50	1/2-13
J-23183	J-83-A	.62	2.25	3.50	.62	3.75	2.40	2.40	5.00	2.00	5/8-11
J-23189	J-89-A	.50	2.00	3.00	.50	3.00	1.75	1.75	4.00	1.25	1/2-13
J-23190	—	.38	1.25	2.00	.38	2.25	1.48	1.48	3.00	1.25	3/8-16

LIFTER ARM MOUNTINGS

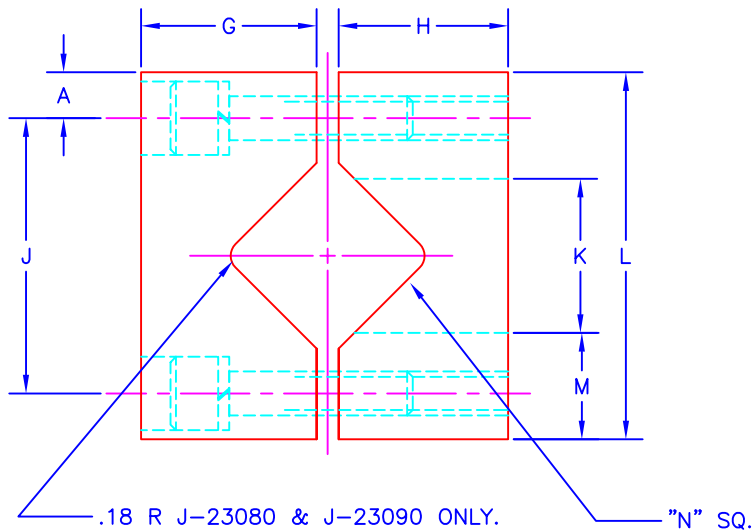
PRINTED COPY IS
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THE SLOT IN THIS BLOCK ALLOWS A TONGUE ON THE ARM TO BE INSERTED. UPON WELDING THE TONGUE MAKES UNIT MORE RIGID.



OPENING FOR ARM
(ARM NOT FURNISHED)

NOTE:
ARM TO BE MADE TO SUIT & WELDED
BY THE PRODUCTION PLANT.



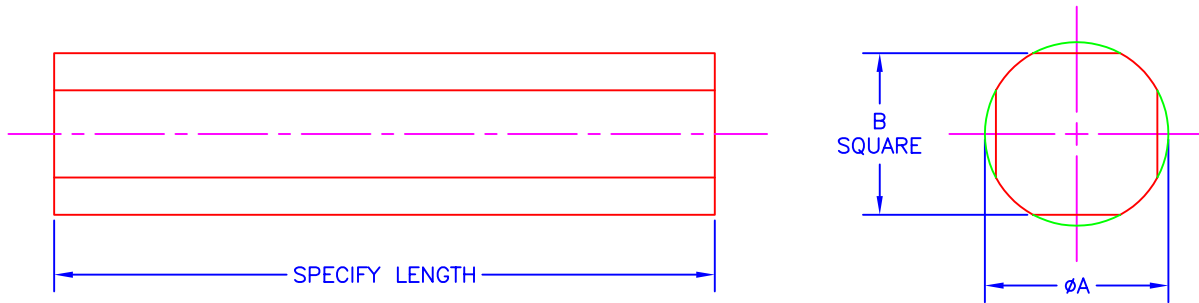
JOLICO NO.	OLD "J" NO.	REF. NO.	REF. NO.
J-23080	J-55201	DX18-28-1201	_____
J-23081	J-81	RA8-0501	AM-20-16
J-23082	J-82	RA8-0502	AM-20-24
J-23083	J-83	RA8-0503	AM-20-32
J-23089	J-89	_____	_____
J-23090	_____	_____	_____

NOTE:
TO ORDER WITH REVERSED SCREWS
ADD SUFFIX "R" (EXP. J-23081-R).

JOLICO NO.	A	B	C	D	E	F	G	H	J	K	L	M	N
J-23080	.50	2.25	.75	1.25	3.25	1/2-13	1.90	1.90	3.00	1.75	4.00	1.12	1.75
J-23081	.50	1.50	.50	1.00	2.50	1/2-13	1.20	1.40	2.25	1.50	3.25	.88	1.00
J-23082	.50	2.25	.75	1.25	3.25	1/2-13	1.90	1.90	3.00	1.75	4.00	1.12	1.50
J-23083	.62	2.25	1.00	1.25	3.50	5/8-11	2.40	2.40	3.75	2.00	5.00	1.50	2.00
J-23089	.50	2.00	.75	1.12	3.00	1/2-13	1.75	1.75	3.00	1.75	4.00	1.12	1.25
J-23090	.38	1.25	.50	.75	2.00	3/8-16	1.48	1.48	2.25	1.50	3.00	.75	1.25

SOLID AUTOMATION SHAFTING

WHEN AUTOMATION SHAFTING IS USED WITH A CLEVIS, PUSHER ARM, LIFTER ARMS, PILLOW BLOCKS AND AIR CYLINDER, MAKES UP THE MOTION TRANSFER MECHANISM OF AN INDIRECT LIFTER SYSTEM.

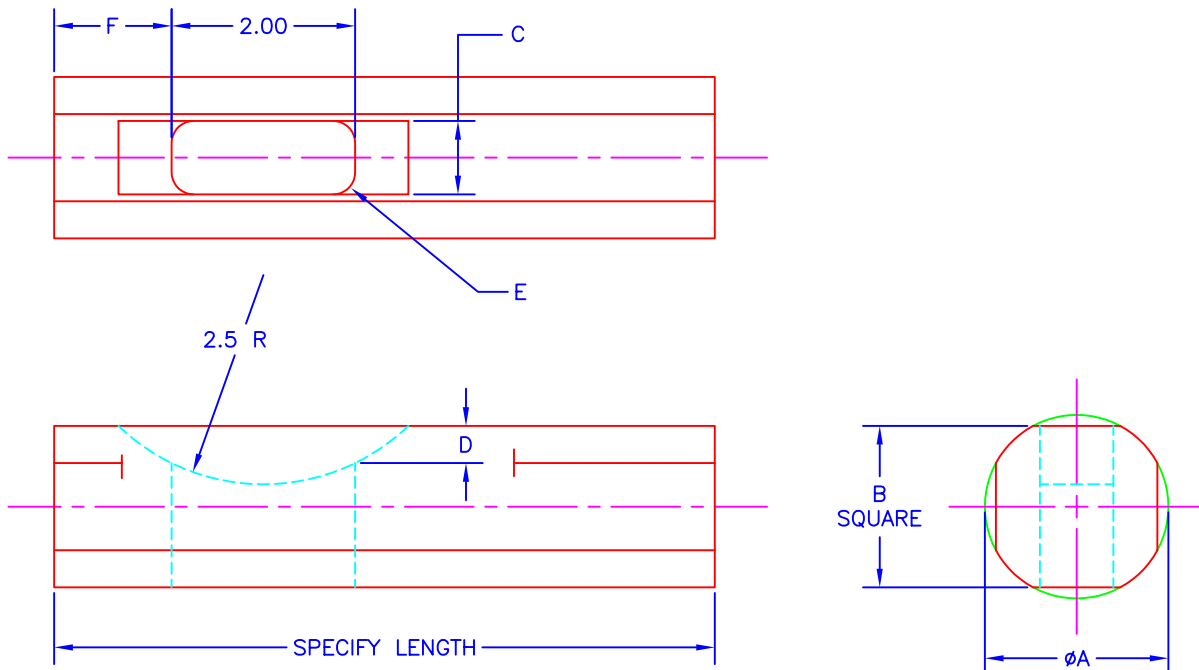


JOLICO NO.	REF. NO.	REF. NO.	øA	B
J-55401	DX18-28-1401	AS-28	1.968/1.964	1.75
J-55402	_____	_____	1.432/1.428	1.25

ORDERING EXAMPLE:
J-55401 X 22.0 LONG

SLOTTED AUTOMATION SHAFTING

THESE ITEMS ACCEPT A LIFTER ARM. MOTION IS TRANSFERED FROM THE LIFTER ARM TO THIS PIN WHICH THEN LIFTS THE PART UP.



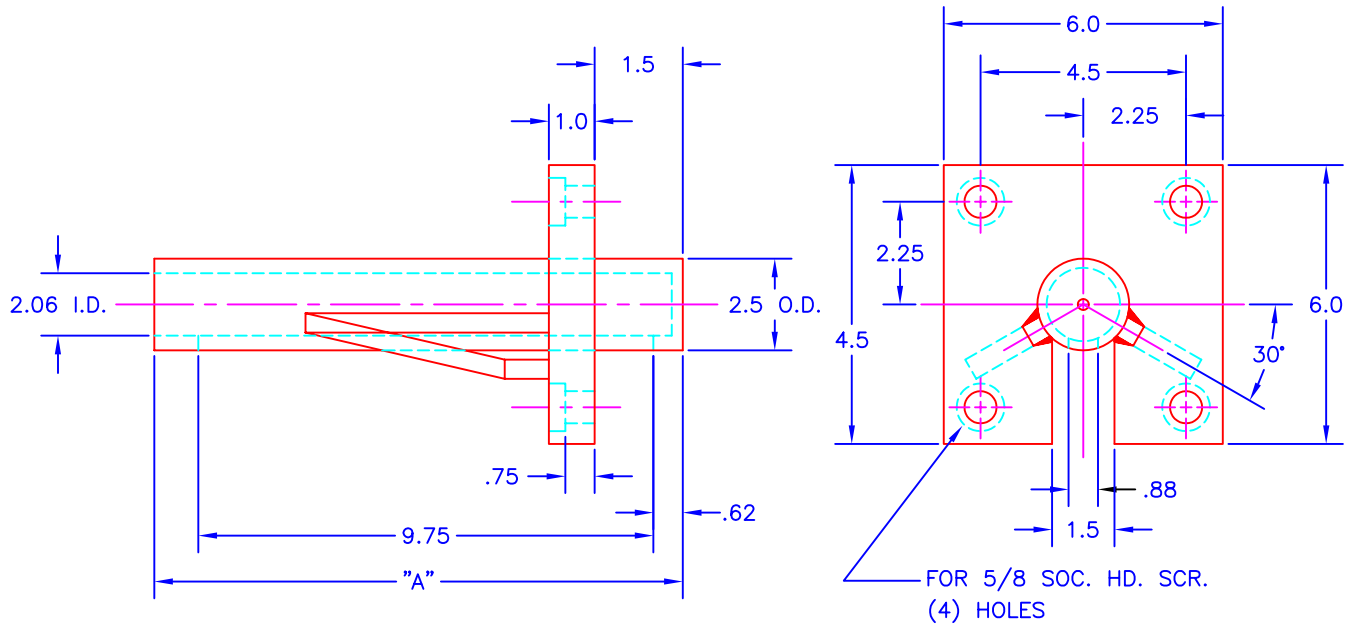
JOLICO NO.	øA	B	C	D	E	F
J-55451	1.968/1.964	1.75	.88	.38	.25	1.25
J-55452	1.432/1.428	1.25	.62	.28	.18	1.25

ORDERING EXAMPLE:
J-55451 X 15.0 LONG

INDIRECT LIFTER SHAFT SUPPORT

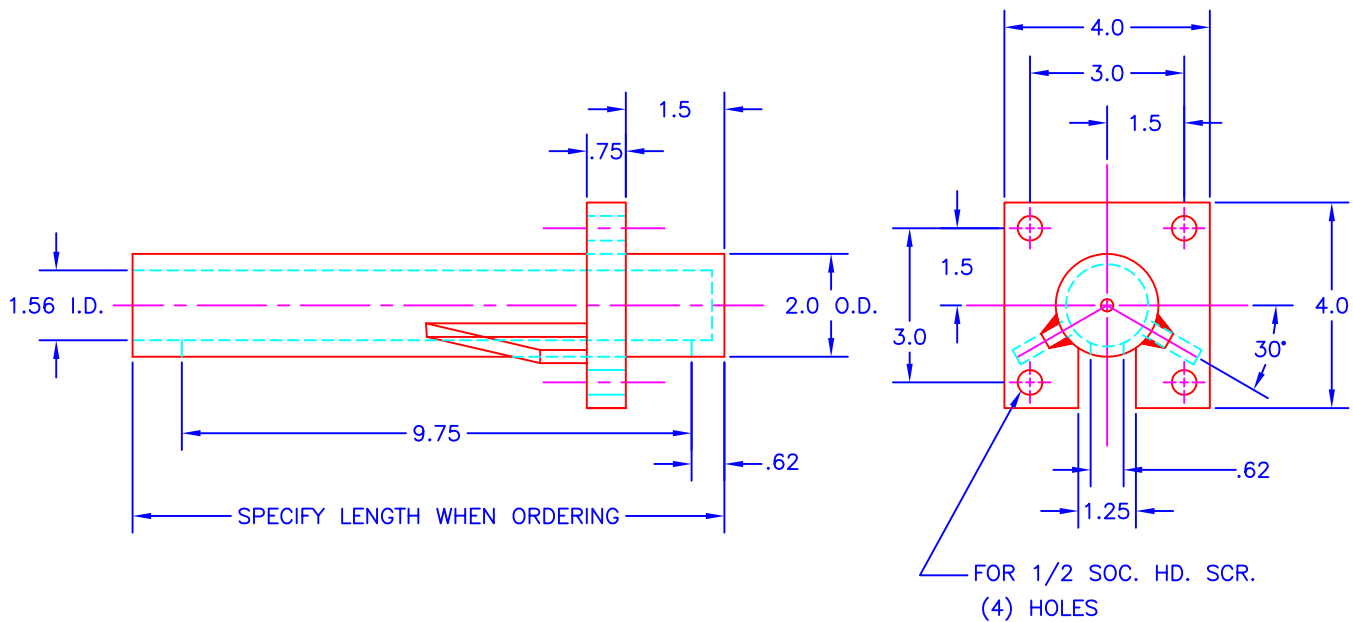
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LIFTER SHAFT SUPPORTS CONTAIN AND GUIDE
LIFTER PINS LIKE SHOWN ON PAGE JH-22



JOLICO NO.	REF. NO.	A
J-53102	DX18-10-0701	11.5
J-53103	DX18-10-0702	*

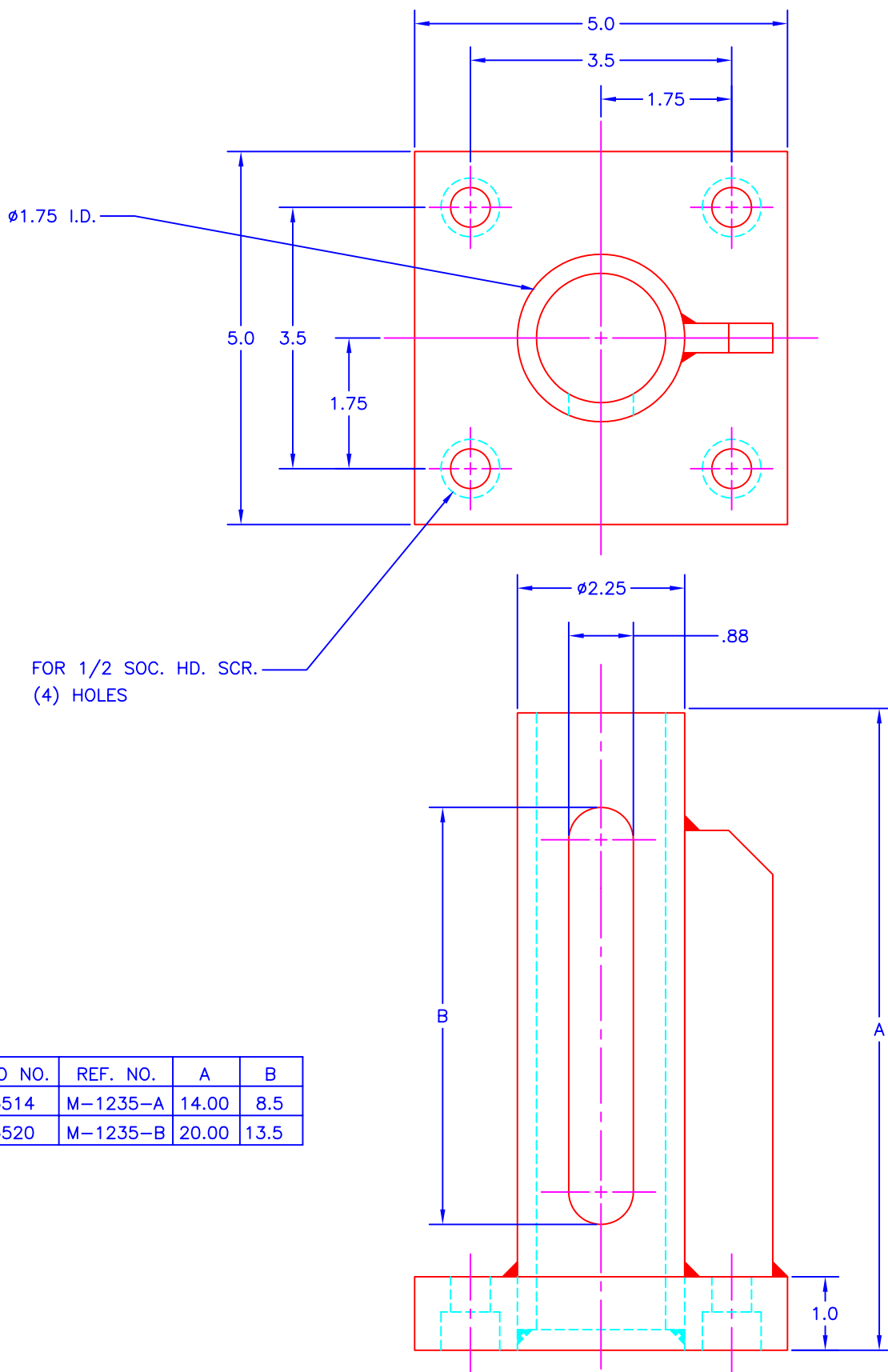
* IF HEIGHT GREATER THAN 11.5 IS REQUIRED
ORDER BY ADDING "A" DIMENSION.
EXAMPLE: J-53103 X A=13.5 LG.



JOLICO NUMBER
J-53104 X LENGTH

LIFTER POST HOUSING

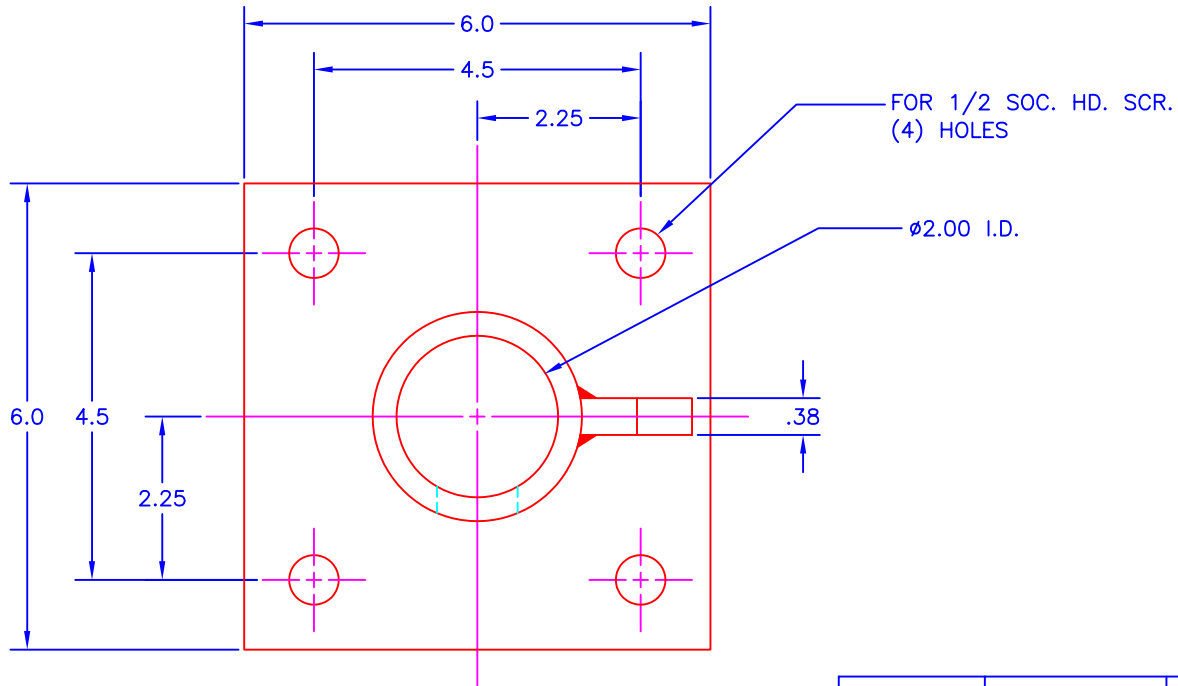
LIFTER POST HOUSINGS CONTAIN AND GUIDE LIFTER PINS.



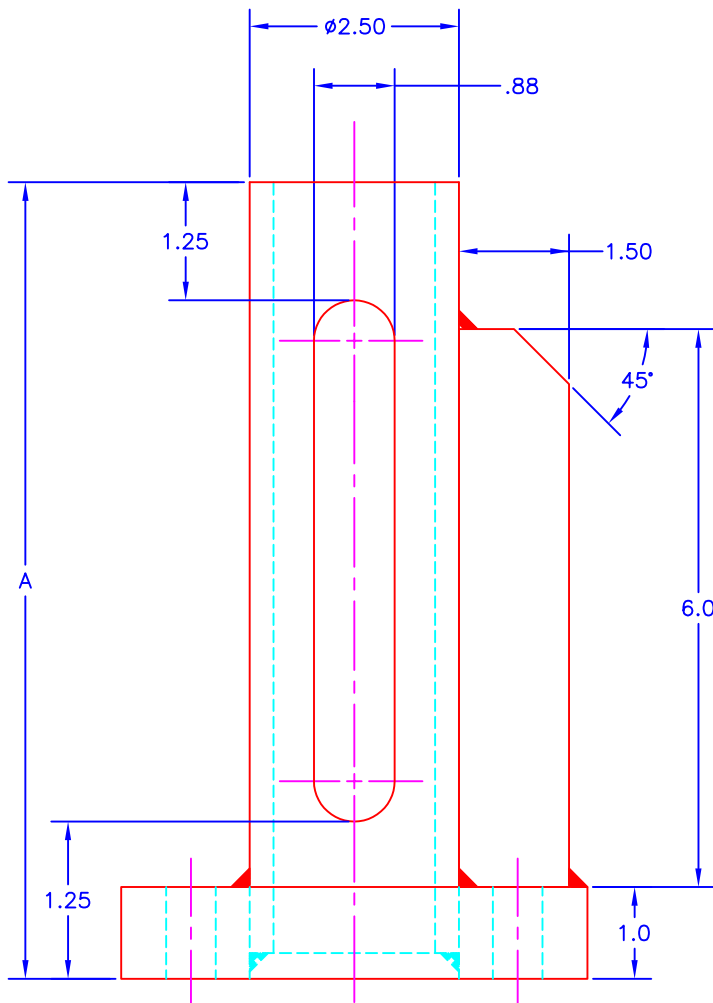
JOLICO NO.	REF. NO.	A	B
J-53514	M-1235-A	14.00	8.5
J-53520	M-1235-B	20.00	13.5

LIFTER POST HOUSING

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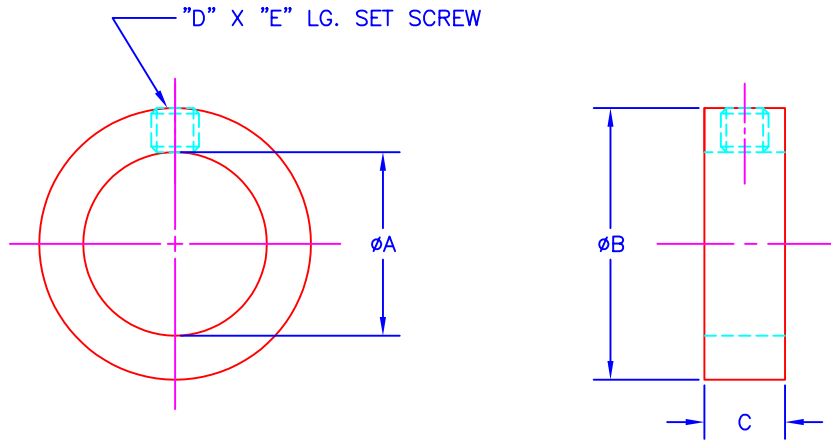


JOLICO NO.	REF. NO	A
J-53012	20-904-0012	12
J-53014	20-904-0014	14
J-53016	20-904-0016	16
J-53018	20-904-0018	18
J-53020	20-904-0020	20



AUTOMATION COLLARS

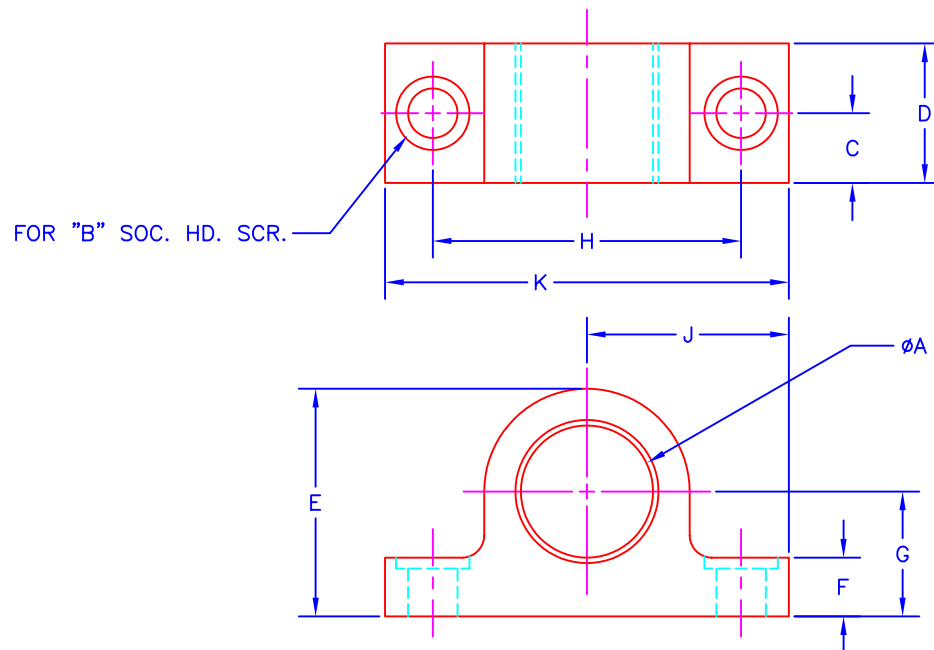
THESE DETAILS ARE USED TO RETAIN AUTOMATION SHAFTING.
ONE COLLAR AT EACH END OF THE SHAFT, NEXT TO A
PILLOW BLOCK WILL RETAIN THE SHAFTING



JOLICO NO.	OLD "J" NO.	REF. NO.	REF. NO.	A	B	C	D	E
J-55501	J-55405	DX18-28-1405	AC-28	2.00	3.00	.88	1/2-13	.50
J-55502				1.47	2.25	.75	3/8-16	.38

PILLOW BLOCKS

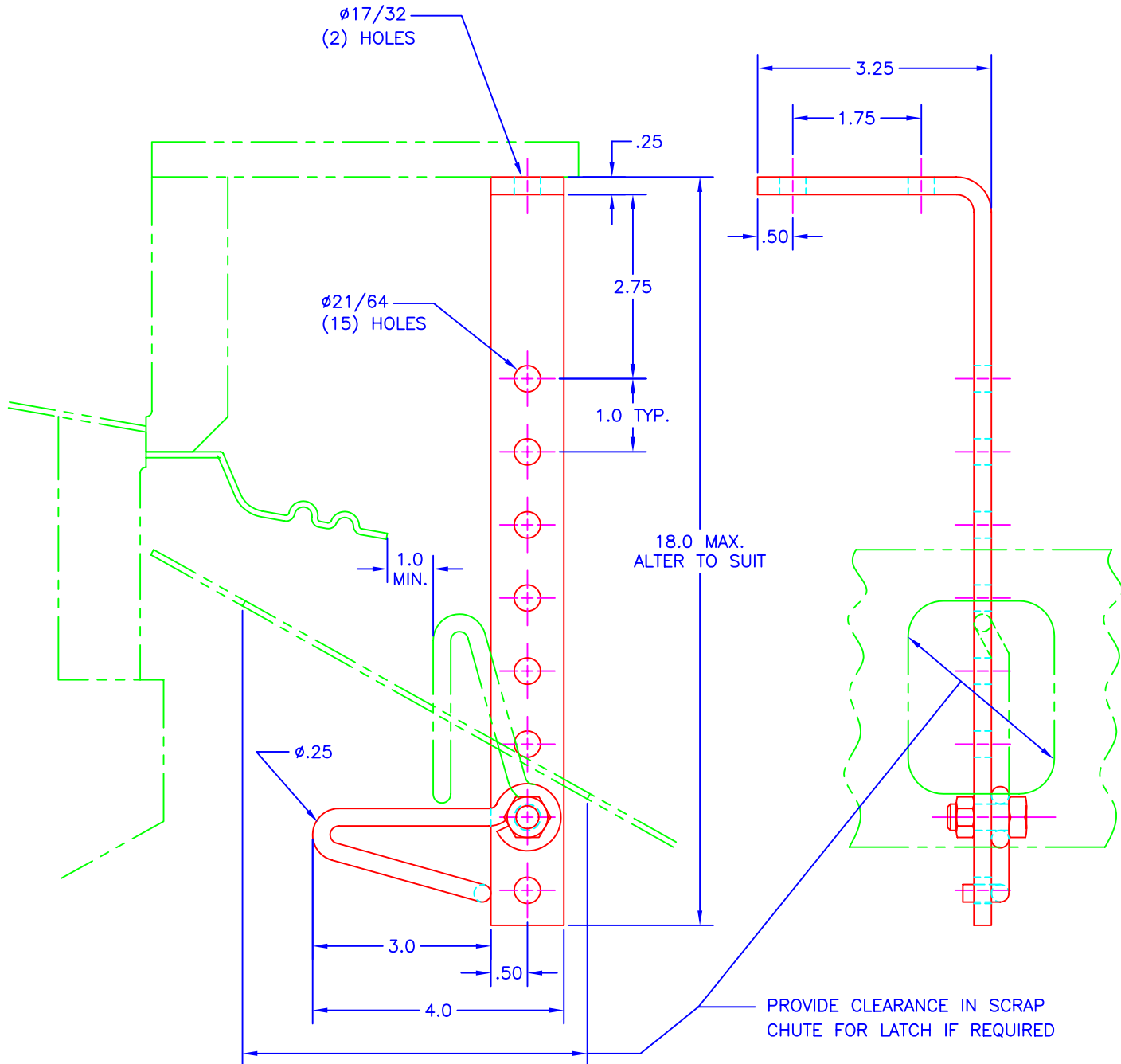
THESE SELF LUBRICATION PILLOW BLOCKS ACT
AS A BUSHING FOR AUTOMATION SHAFTING.



JOLICO NO.	A	B	C	D	E	F	G	H	J	K
J-55301	1.972/1.975	5/8	1.00	2.00	3.25	.75	1.880/1.882	5.50	3.50	7.00
J-55302	1.972/1.975	5/8	1.00	2.00	3.12	.50	1.748/1.750	4.38	2.81	5.62
J-55303	1.435/1/439	1/2	.75	1.50	2.50	.62	1.373/1.375	3.50	2.25	4.50

LATCH TYPE SCRAP SHEDDING EJECTOR

A LATCH EJECTOR IS MAINLY USED FOR BREAKING LOOSE SCRAP THAT IS HUNG UP ON TWO SCRAP CUTTERS. IT CAN ALSO BE USED FOR LIGHT DUTY LATCH TYPE PART REMOVAL.



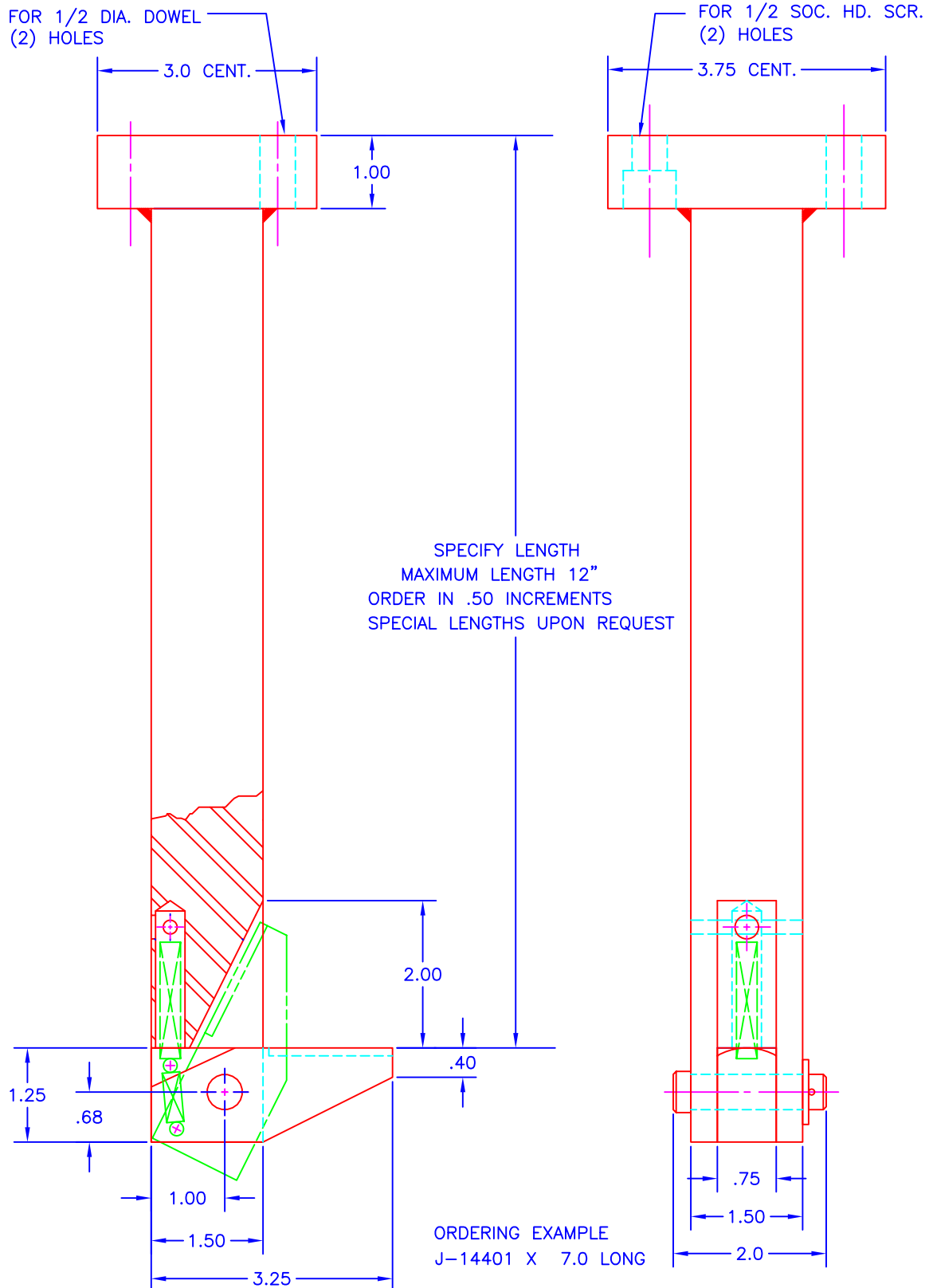
JOLICO NO.	REF. NO.
J-14301	DX18-4-0301

ORDERING EXAMPLE:
J-14301 X 15.0 LONG

LATCH TYPE EJECTOR

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THIS TYPE OF LATCH EJECTOR IS USED FOR SMALL
AND MEDIUM SIZE PARTS FOR PART REMOVAL.

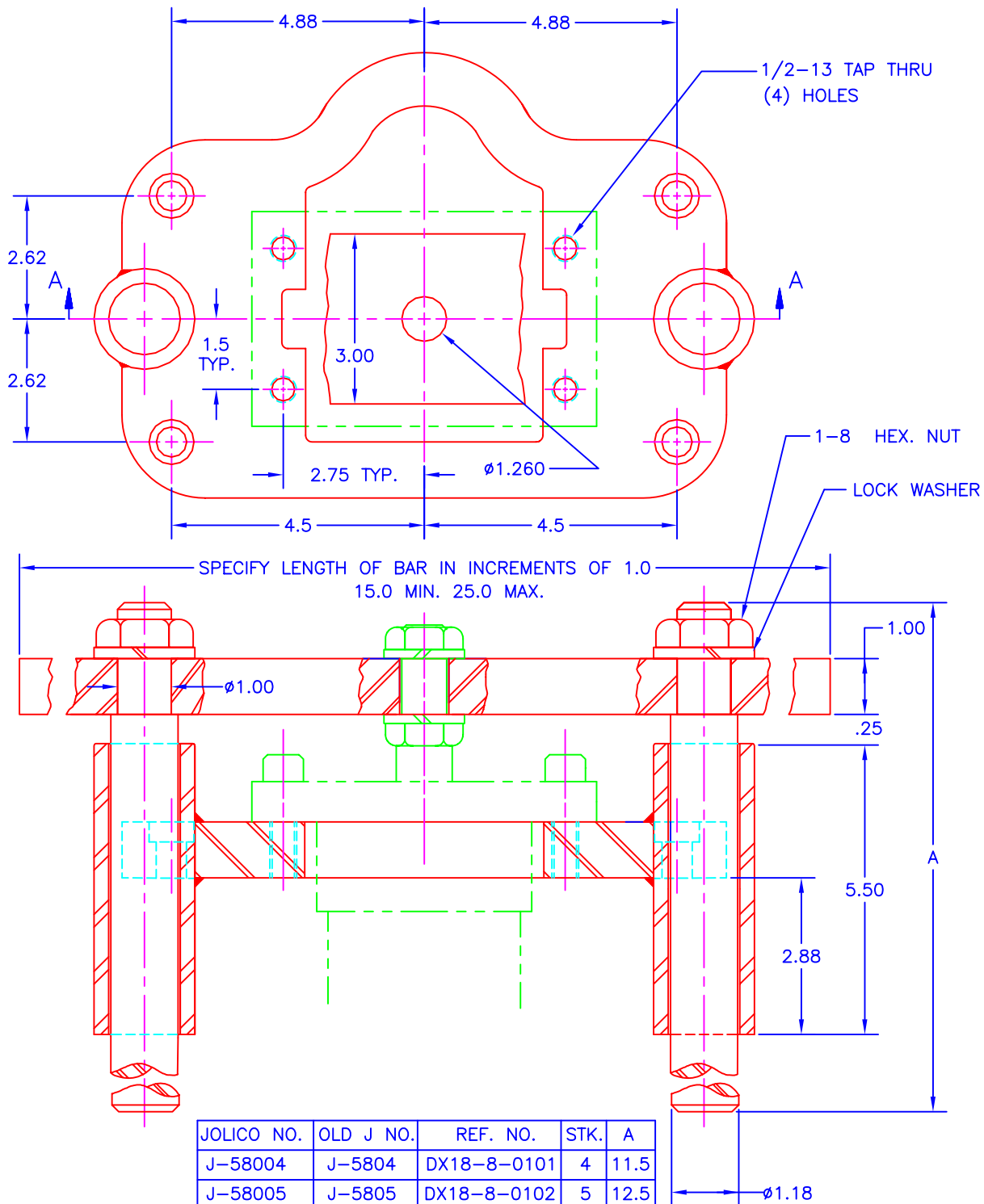


JOLICO NO.	REF. NO.	REF. NO.
J-14401	DX18-4-0401	20-173-0100

STANDARD "H" TYPE LIFTER

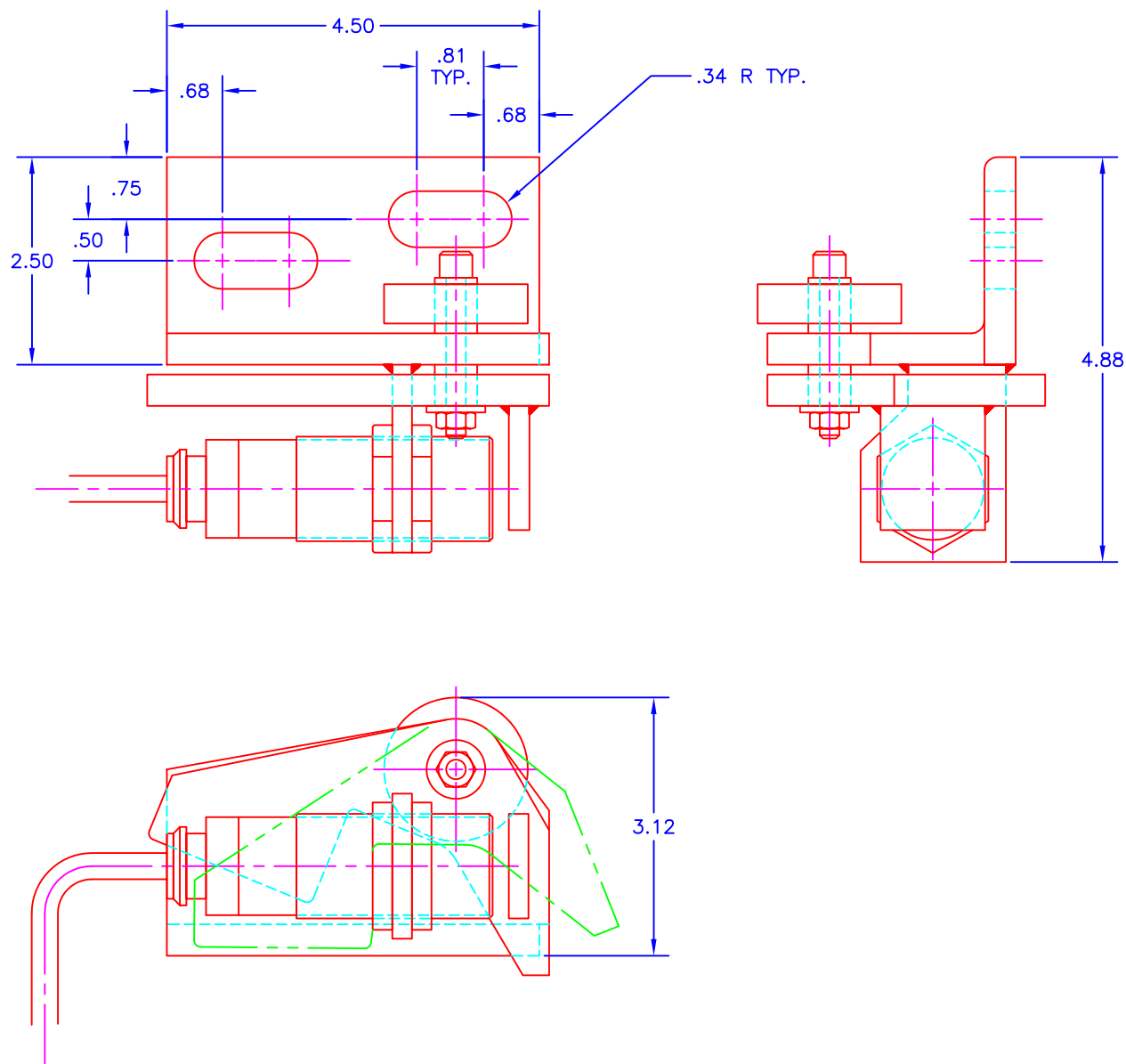
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UNCONTROLLED

THESE DETAILS ARE A DIRECT STYLE OF PART LIFTER
THAT IS LOCATED ON THE INTERIOR OF A DIE. IT IS DESIGNED TO
ACCEPT A 3.25 DIA. BORE ROD FLANGE MOUNTED AIR CYLINDER



JOLICO NO.	OLD J NO.	REF. NO.	STK.	A
J-58004	J-5804	DX18-8-0101	4	11.5
J-58005	J-5805	DX18-8-0102	5	12.5
J-58006	J-5806	DX18-8-0103	6	13.5
J-58008	J-5807	DX18-8-0104	8	15.5
J-58010	J-5808	DX18-8-0105	10	17.5
J-58012	J-5809	DX18-8-0106	12	19.5

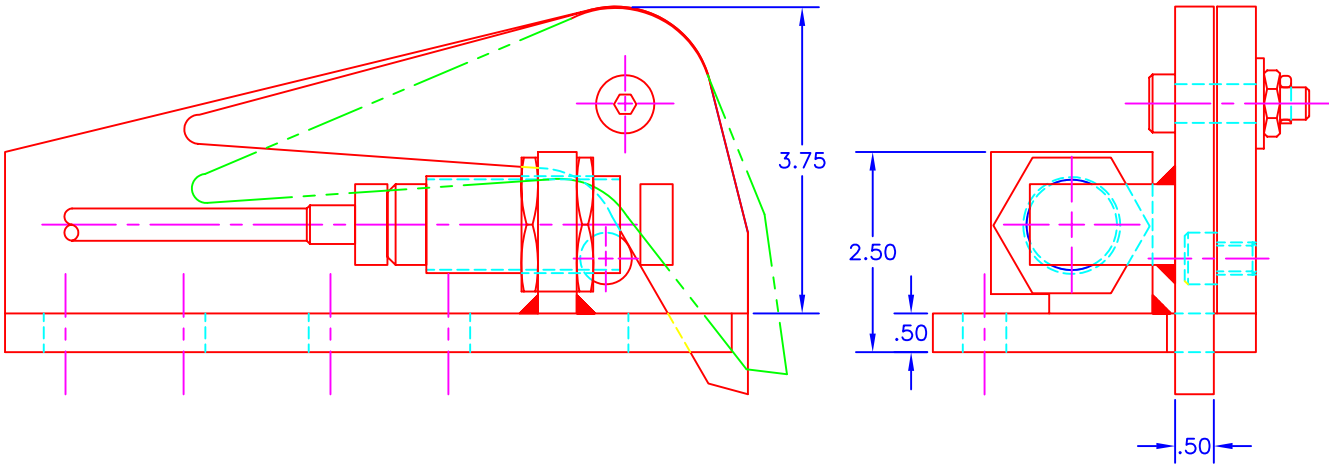
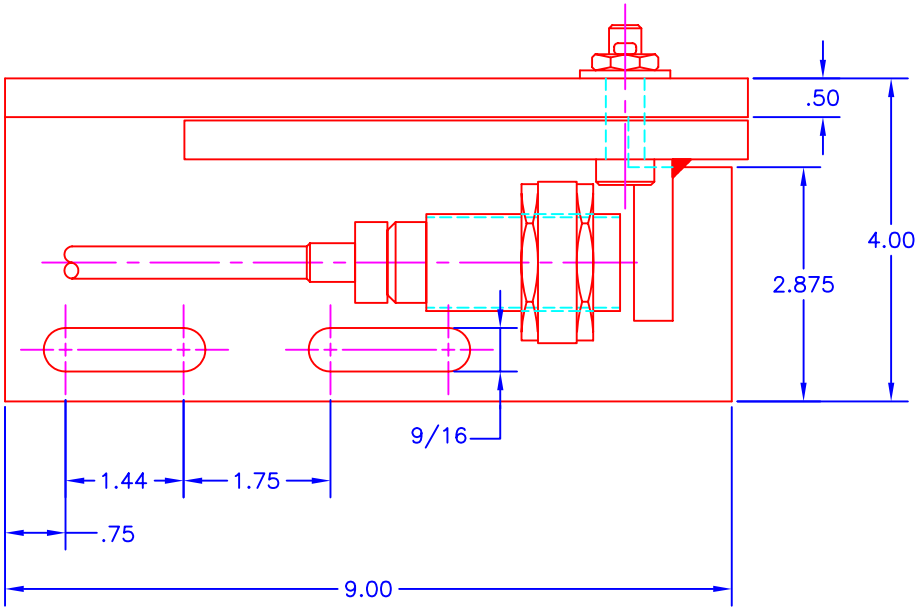
PROXIMITY SWITCH ASSEMBLY



JOLICO NO.	REF. NO.	
J-77840	DX18-16-1004	SHOWN
J-77841	DX18-16-1005	OPPOSITE

RAMP GAGE

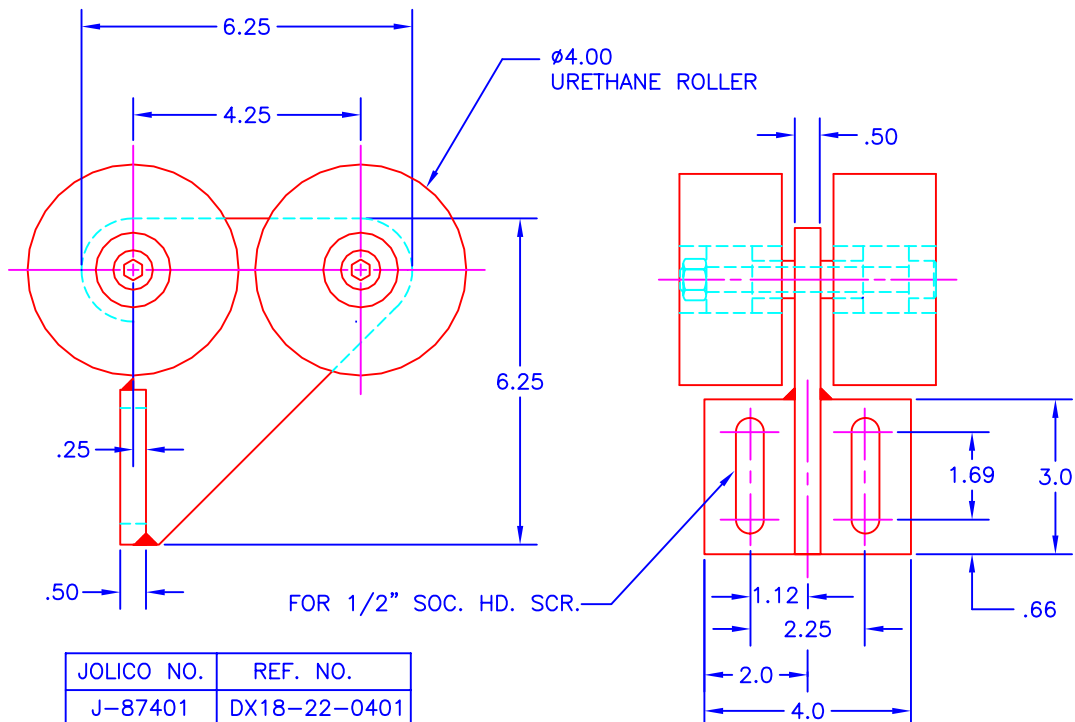
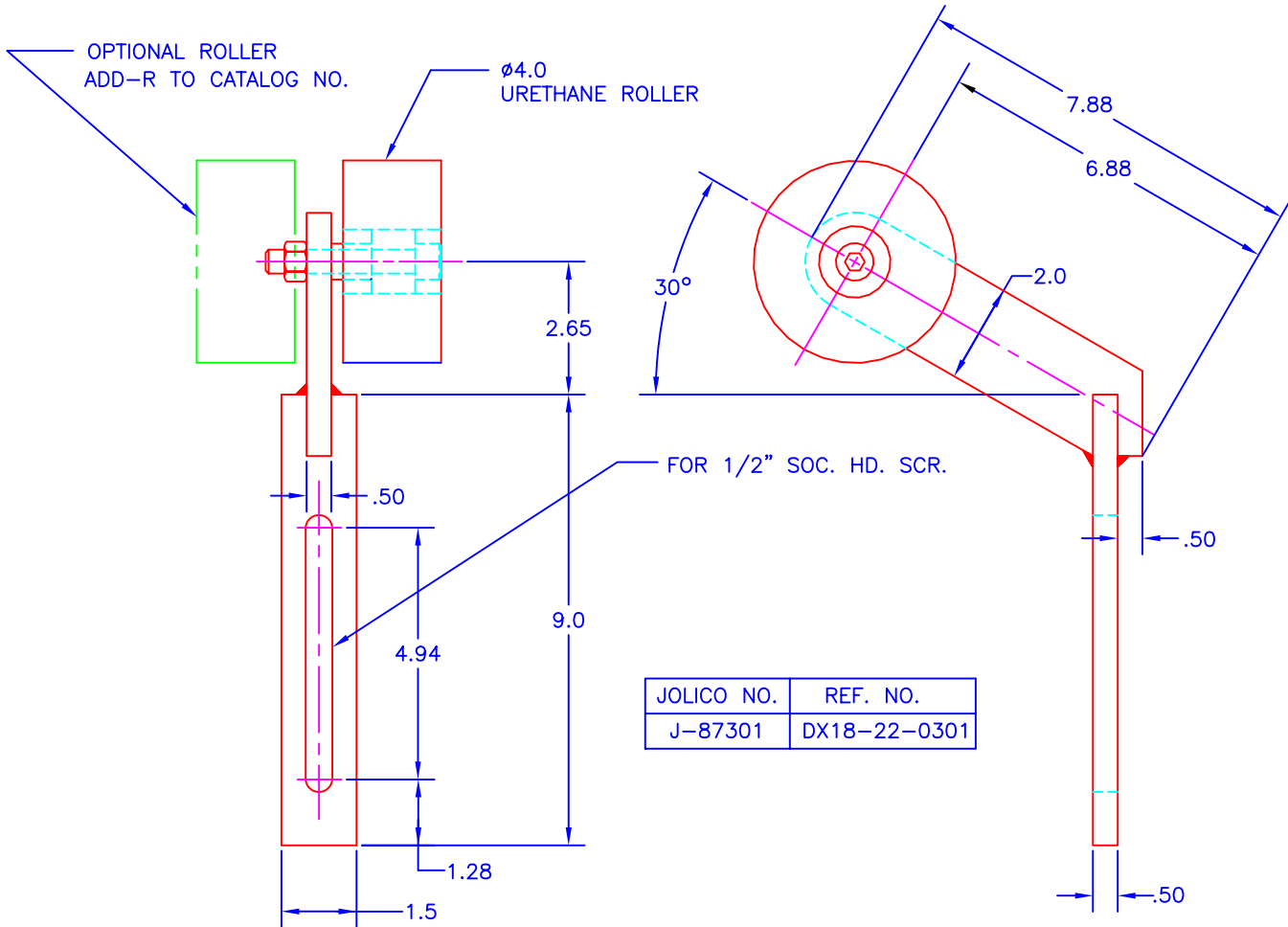
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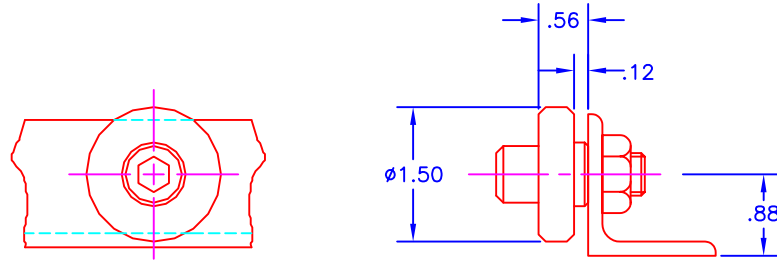
JOLICO NO.	REF. NO.
J-77850	20-980-4010

ROLLER ASSEMBLIES

THESE ROLLER ASSEMBLIES ARE USED ON THE UNLOAD
SIDE OF DRAW DIES TO KEEP THE PART FROM BEING MARRED
WHEN IT IS BEING REMOVED FROM THE DIE.



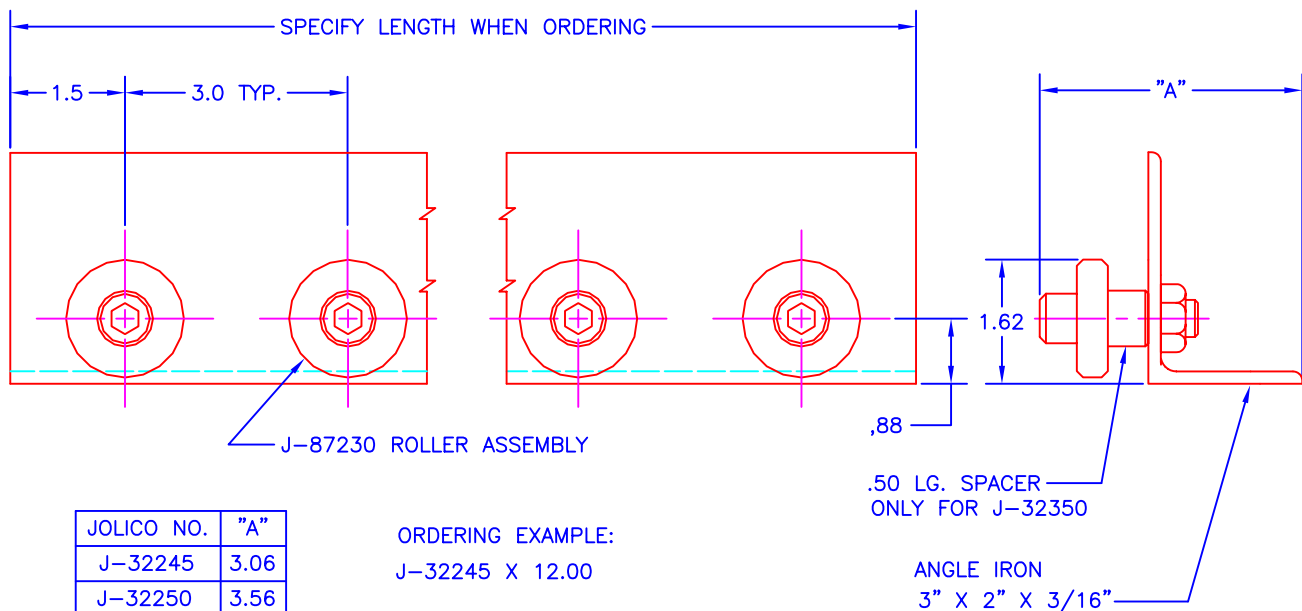
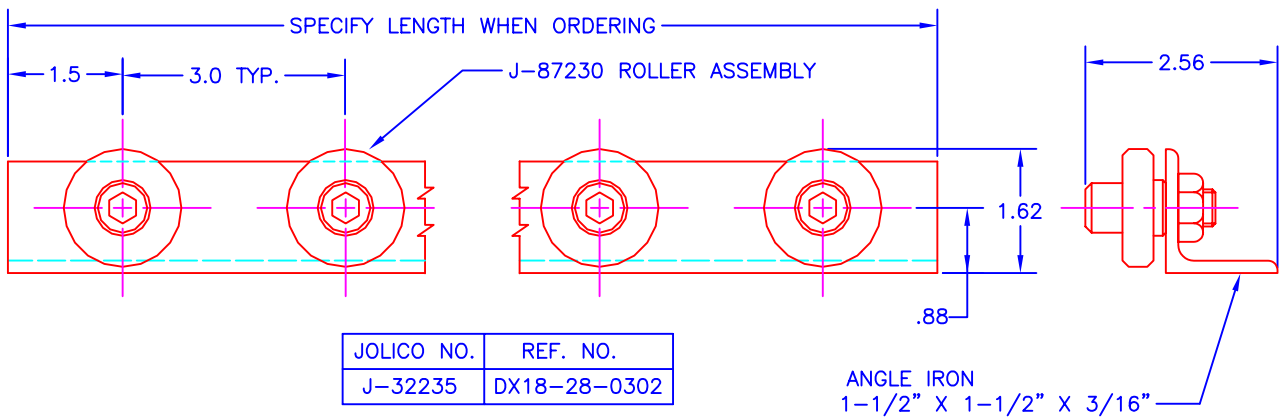
ROLLER TYPE STOCK TRANSFER



NOTE: ASSEMBLY INCLUDES ROLLER, 1/2 SELF LOCKING SOC. HD. CAP SCR.,
AND SELF LOCKING HEX NUT.

JOLICO NO.	REF. NO.
J-87230	DX18-28-0301

AUTOMATION TRACKS

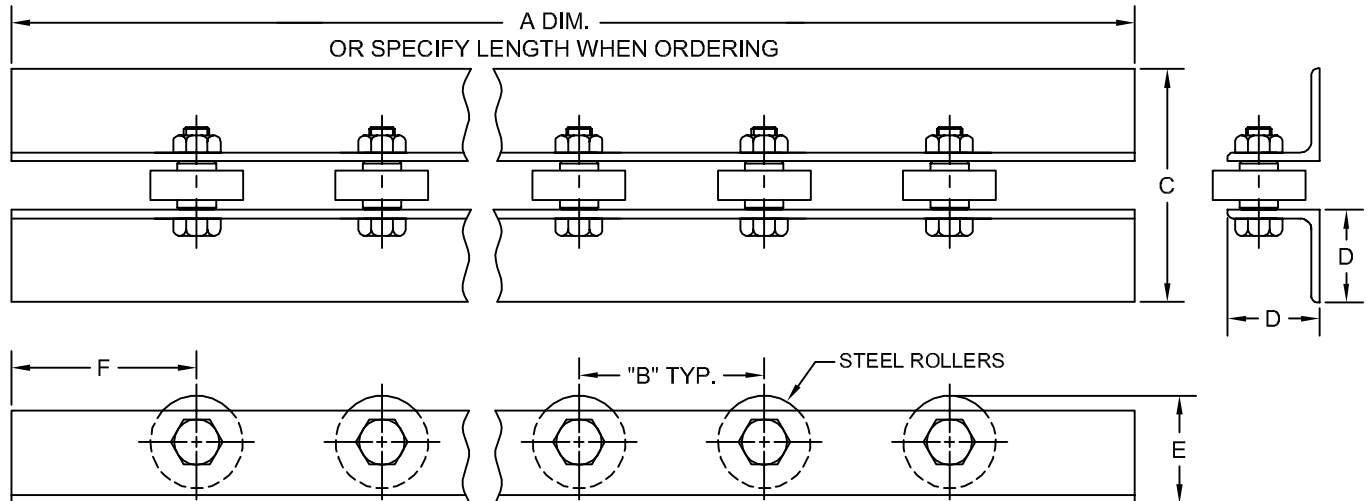


JOLICO J-B TOOL

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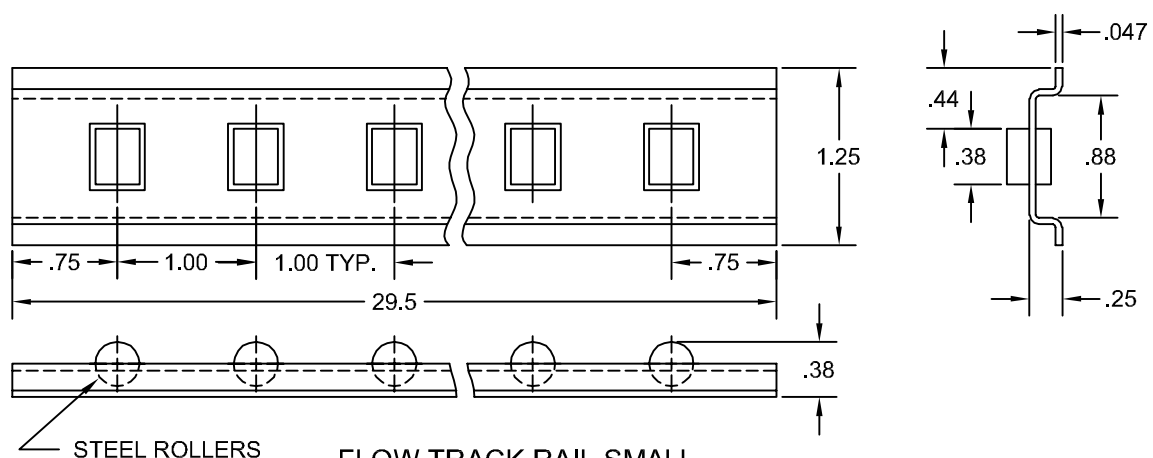
FLOW TRACK RAILS SMALL & MEDIUM

THESE FLOW TRACK ASSEMBLIES ARE USED FOR SHEDDING PARTS
WHEN THE PROPER SHEDDING ANGLE CANNOT BE MAINTAINED.



FLOW TRACK RAIL MEDIUM

JOLICO NUMBER	REF. NUMBER	A DIM.	B	C	D	E	F
J-32315	20-175-0300	60.0	1.5	1.88	0.75	0.88	0.75
J-32320	20-175-0305	120.0	1.5				0.75
J-32325		60.0	3.0				1.50
J-32330		120.0	3.0				1.50
J-32360		60.0	1.5	2.88	1.25	1.405	0.75
J-32361		120.0	1.5				0.75
J-32362		60.0	3.0				1.50
J-32363		120.0	3.0				1.50



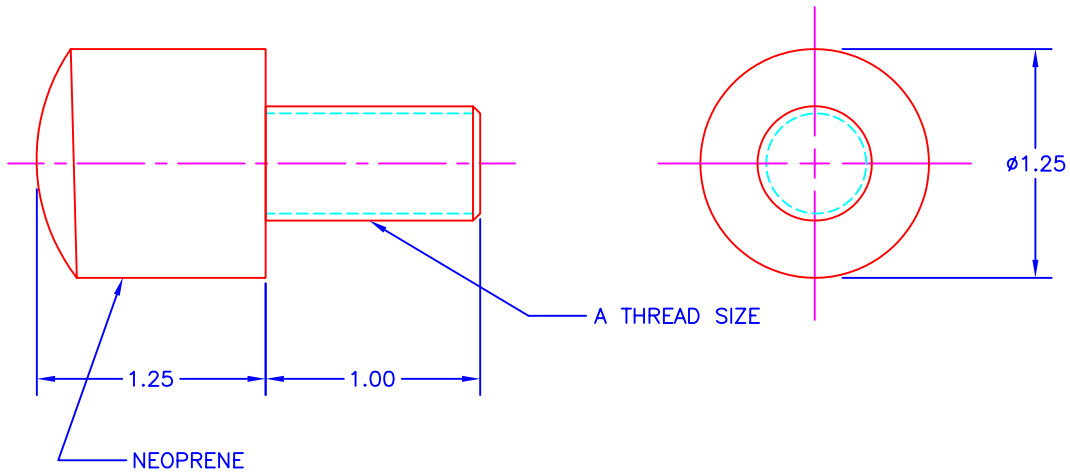
FLOW TRACK RAIL SMALL

JOLICO NUMBER	REF. NUMBER
J-32110	FTS-11-H

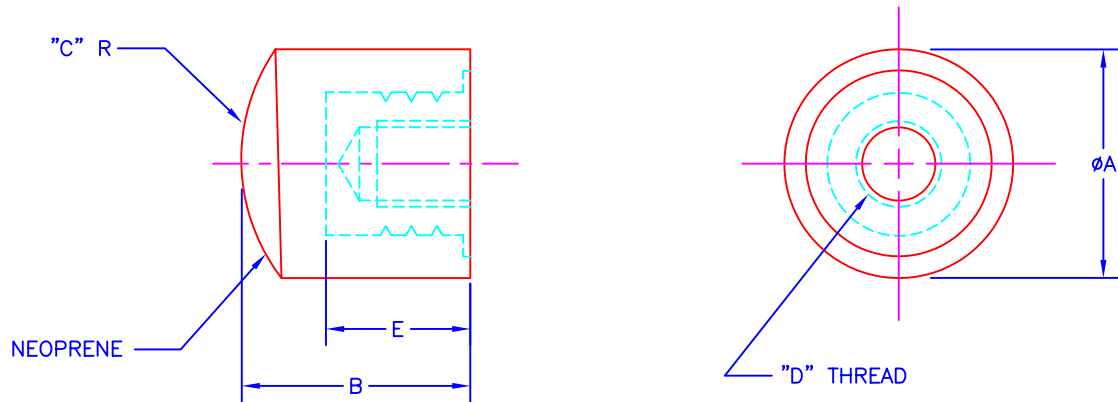
RUBBER BUMPERS

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THESE BUMPERS ARE USED TO KICK PARTS OUT OF THE DIE
WITH AN AIR CYLINDER THEY ARE ALSO USED AS A CUSHIONED
STOP FOR SOME TYPES OF AUTOMATION.

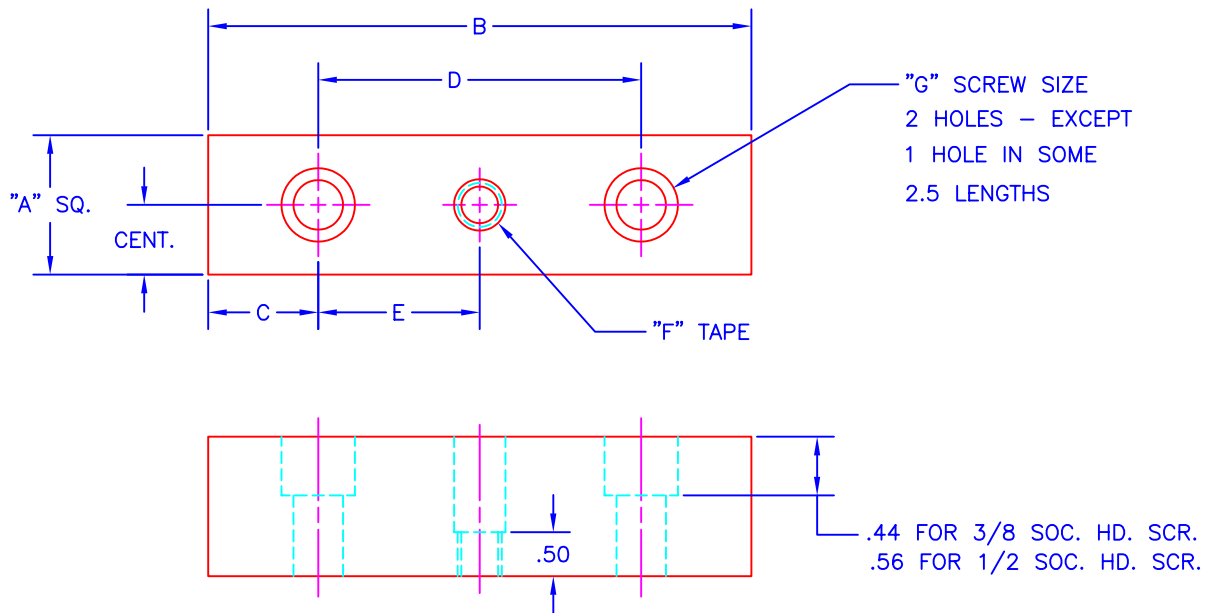


JOLICO NO.	REF. NO.	REF. NO.	A THREAD SIZE
J-72002	—	14M-13	1/2-13
J-72003	RK5-10M	8M-16	5/8-18



JOLICO NO.	REF. NO.	A	B	C	D THREAD SIZE	E
J-72401	DX18-28-0401	1.25	1.25	1.25	1/2-13	.50
J-72402	DX18-28-0402	1.75	1.62	1.75	5/8-11	.62
J-72403	DX18-28-0403	2.25	2.25	2.50	3/4-10	.75
J-72404	DX18-28-0404	2.25	2.25	2.50	1-8	.75
J-72405	DX18-28-0405	3.00	2.75	3.00	1-8	1.00
J-72406	DX18-28-0406	3.00	2.75	3.00	1-1/4-12	1.00
J-72203	RK-5-10	1.25	1.25	1.25	5/8-18	.75

KEYS

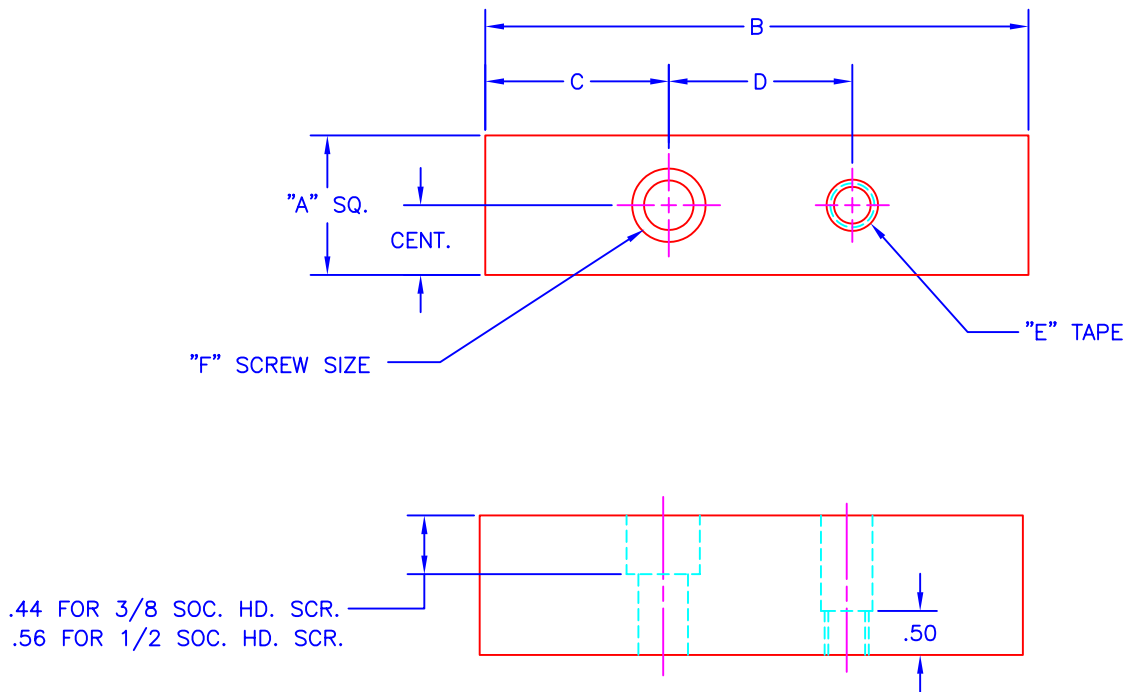


JOLICO NO.	A	B	C	D	E	F	G
J-49020	.75	2.50	.62	1.25	.62	3/8-16	3/8
J-49021	.75	3.00	.62	1.75	.87	3/8-16	3/8
J-49022	.75	3.50	.62	2.25	1.12	3/8-16	3/8
J-49023	.75	4.00	.87	2.25	1.12	3/8-16	3/8
J-49024	.75	5.00	.75	3.50	1.75	3/8-16	3/8
J-49025	.75	6.00	1.25	3.50	1.75	3/8-16	3/8
J-49026	.75	8.00	1.25	5.50	2.75	3/8-16	3/8
J-49027	.75	10.00	2.25	5.50	2.75	3/8-16	3/8
J-49028	1.00	2.50	.62	—	1.25	1/2-13	1/2
J-49029	1.00	3.00	.62	1.75	.87	1/2-13	1/2
J-49030	1.00	3.50	.62	2.25	1.12	1/2-13	1/2
J-49031	1.00	4.00	.87	2.25	1.12	1/2-13	1/2
J-49032	1.00	5.00	.75	3.50	1.75	1/2-13	1/2
J-49033	1.00	6.00	1.25	3.50	1.75	1/2-13	1/2
J-49034	1.00	8.00	1.25	5.50	2.75	1/2-13	1/2
J-49035	1.00	10.00	2.25	5.50	2.75	1/2-13	1/2
J-49036	1.25	2.50	.62	—	1.25	1/2-13	1/2
J-49037	1.25	3.00	.62	1.75	.87	1/2-13	1/2
J-49038	1.25	3.50	.62	2.25	1.12	1/2-13	1/2
J-49039	1.25	4.00	.87	2.25	1.12	1/2-13	1/2

JOLICO NO.	A	B	C	D	E	F	G
J-49040	1.25	5.00	.75	3.50	1.75	1/2-13	1/2
J-49041	1.25	6.00	1.25	3.50	1.75	1/2-13	1/2
J-49042	1.25	8.00	1.25	5.50	2.75	1/2-13	1/2
J-49043	1.25	10.00	2.25	5.50	2.75	1/2-13	1/2
J-49044	1.50	2.50	.62	—	1.25	1/2-13	1/2
J-49045	1.50	3.00	.62	1.75	.87	1/2-13	1/2
J-49046	1.50	3.50	.62	2.25	1.12	1/2-13	1/2
J-49047	1.50	4.00	.87	2.25	1.12	1/2-13	1/2
J-49048	1.50	5.00	.75	3.50	1.75	1/2-13	1/2
J-49049	1.50	6.00	1.25	3.50	1.75	1/2-13	1/2
J-49050	1.50	8.00	1.25	5.50	2.75	1/2-13	1/2
J-49051	1.50	10.00	2.25	5.50	2.75	1/2-13	1/2
J-49052	2.00	2.50	.62	—	1.25	1/2-13	1/2
J-49053	2.00	3.00	.62	1.75	.87	1/2-13	1/2
J-49054	2.00	3.50	.62	2.25	1.12	1/2-13	1/2
J-49055	2.00	4.00	.87	2.25	1.12	1/2-13	1/2
J-49056	2.00	5.00	.75	3.50	1.75	1/2-13	1/2
J-49057	2.00	6.00	1.25	3.50	1.75	1/2-13	1/2
J-49058	2.00	8.00	1.25	5.50	2.75	1/2-13	1/2
J-49059	2.00	10.00	2.25	5.50	2.75	1/2-13	1/2

KEYS

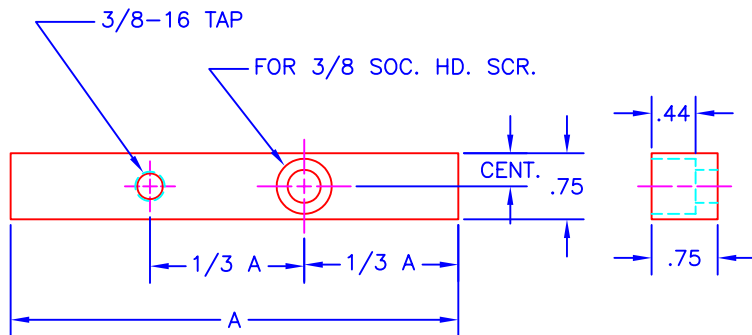
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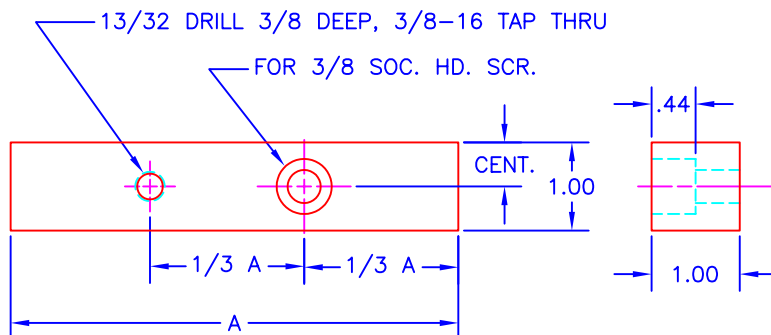
JOLICO NO.	A	B	C	D	E	F
J-49020-1	.75	2.50	.83	.83	3/8-16	3/8
J-49021-1	.75	3.00	1.00	1.00	3/8-16	3/8
J-49022-1	.75	3.50	1.17	1.17	3/8-16	3/8
J-49023-1	.75	4.00	1.33	1.33	3/8-16	3/8
J-49024-1	.75	5.00	1.67	1.67	3/8-16	3/8
J-49025-1	.75	6.00	2.00	2.00	3/8-16	3/8
J-49026-1	.75	8.00	2.67	2.67	3/8-16	3/8
J-49027-1	.75	10.00	3.33	3.33	3/8-16	3/8
J-49028-1	1.00	2.50	.83	.83	1/2-13	1/2
J-49029-1	1.00	3.00	1.00	1.00	1/2-13	1/2
J-49030-1	1.00	3.50	1.17	1.17	1/2-13	1/2
J-49031-1	1.00	4.00	1.33	1.33	1/2-13	1/2
J-49032-1	1.00	5.00	1.67	1.67	1/2-13	1/2
J-49033-1	1.00	6.00	2.00	2.00	1/2-13	1/2
J-49034-1	1.00	8.00	2.67	2.67	1/2-13	1/2
J-49035-1	1.00	10.00	3.33	3.33	1/2-13	1/2
J-49036-1	1.25	2.50	.83	.83	1/2-13	1/2
J-49037-1	1.25	3.00	1.00	1.00	1/2-13	1/2
J-49038-1	1.25	3.50	1.17	1.17	1/2-13	1/2
J-49039-1	1.25	4.00	1.33	1.33	1/2-13	1/2

JOLICO NO.	A	B	C	D	E	F
J-49040-1	1.25	5.00	1.67	1.67	1/2-13	1/2
J-49041-1	1.25	6.00	2.00	2.00	1/2-13	1/2
J-49042-1	1.25	8.00	2.67	2.67	1/2-13	1/2
J-49043-1	1.25	10.00	3.33	3.33	1/2-13	1/2
J-49044-1	1.50	2.50	.83	.83	1/2-13	1/2
J-49045-1	1.50	3.00	1.00	1.00	1/2-13	1/2
J-49046-1	1.50	3.50	1.17	1.17	1/2-13	1/2
J-49047-1	1.50	4.00	1.33	1.33	1/2-13	1/2
J-49048-1	1.50	5.00	1.67	1.67	1/2-13	1/2
J-49049-1	1.50	6.00	2.00	2.00	1/2-13	1/2
J-49050-1	1.50	8.00	2.67	2.67	1/2-13	1/2
J-49051-1	1.50	10.00	3.33	3.33	1/2-13	1/2
J-49052-1	2.00	2.50	.83	.83	1/2-13	1/2
J-49053-1	2.00	3.00	1.00	1.00	1/2-13	1/2
J-49054-1	2.00	3.50	1.17	1.17	1/2-13	1/2
J-49055-1	2.00	4.00	1.33	1.33	1/2-13	1/2
J-49056-1	2.00	5.00	1.67	1.67	1/2-13	1/2
J-49057-1	2.00	6.00	2.00	2.00	1/2-13	1/2
J-49058-1	2.00	8.00	2.67	2.67	1/2-13	1/2
J-49059-1	2.00	10.00	3.33	3.33	1/2-13	1/2

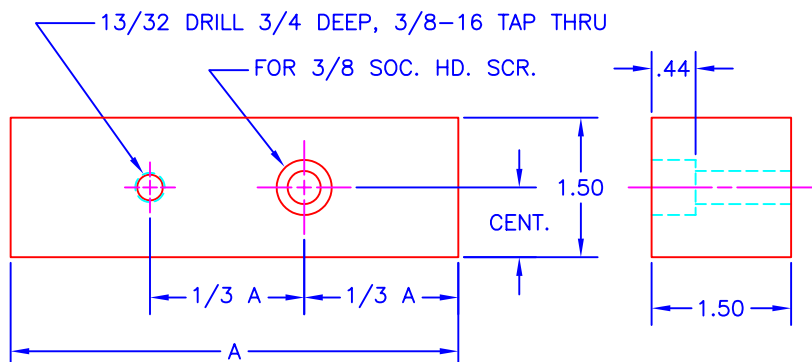
KEYS



JOLICO NO.	REF. NO.	A
J-49211	M-1039-32	2.00
J-49212	M-1039-33	3.00
J-49213	M-1039-34	4.00
J-49214	M-1039-35	5.00
J-49215	M-1039-36	6.00
J-49226	M-1039-37	7.00
J-49227	M-1039-38	8.00



JOLICO NO.	REF. NO.	A
J-49216	M-1039-42	2.00
J-49217	M-1039-43	3.00
J-49218	M-1039-44	4.00
J-49219	M-1039-45	5.00
J-49220	M-1039-46	6.00
J-49228	M-1039-47	7.00
J-49229	M-1039-48	8.00

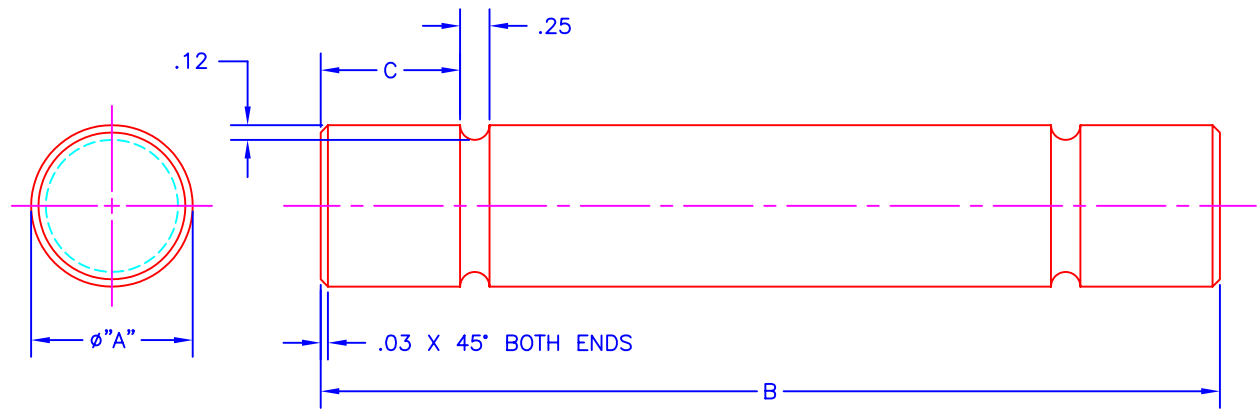


JOLICO NO.	REF. NO.	A
J-49221	M-1039-62	2.00
J-49222	M-1039-63	3.00
J-49223	M-1039-64	4.00
J-49224	M-1039-65	5.00
J-49225	M-1039-66	6.00
J-49230	M-1039-67	7.00
J-49231	M-1039-68	8.00

DIE HOOK LIFTING BARS

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THESE ITEMS ARE CAST IN PLACE AND USED TO LIFT DIE.

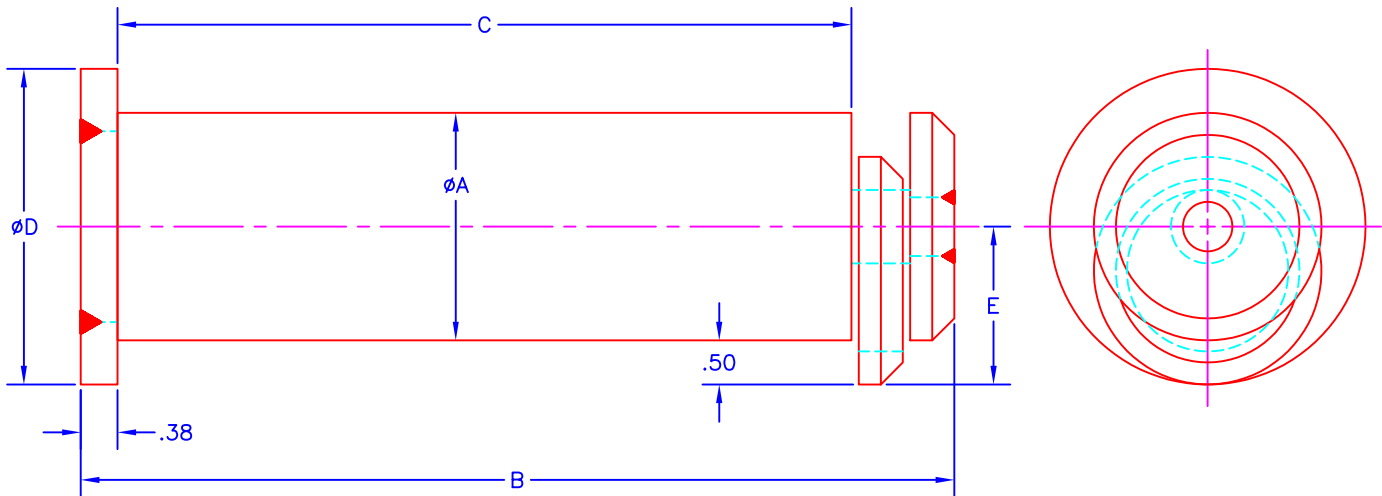


JOLICO NO.	REF. NO.	ø"A"	B	C
J-81301	DK2-0301	1.75	10.00	1.50
J-81302	DK2-0302	2.00	11.50	1.50
J-81303	DK2-0303	2.00	8.50	1.50

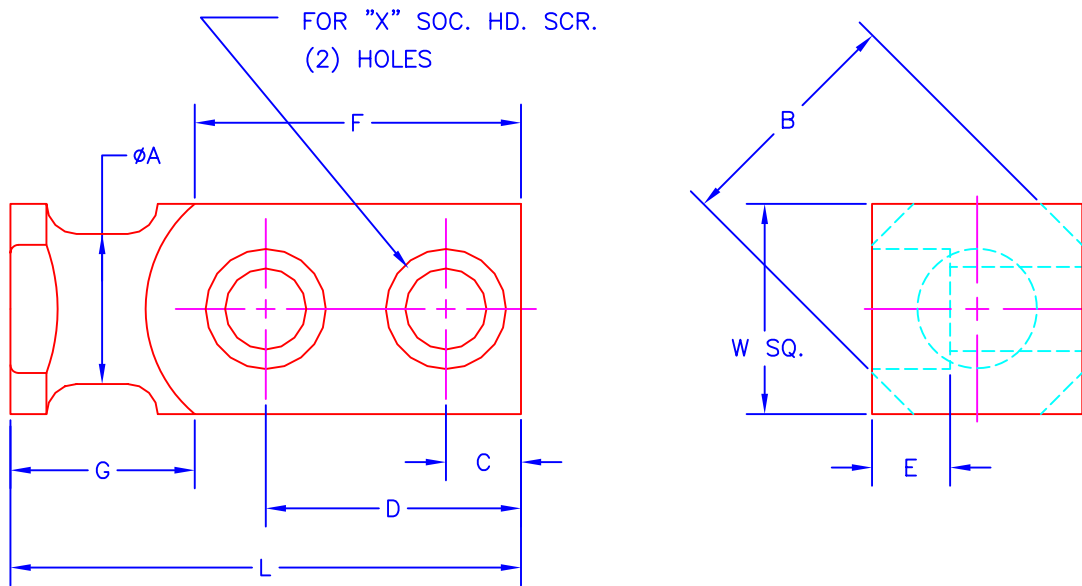
JOLICO NO.	REF. NO.	ø"A"	B	C
J-81304		2.00	12.00	2.38
J-81305		2.00	14.00	2.38
J-81306		2.50	12.00	2.25

FALL RING LIFTER PINS

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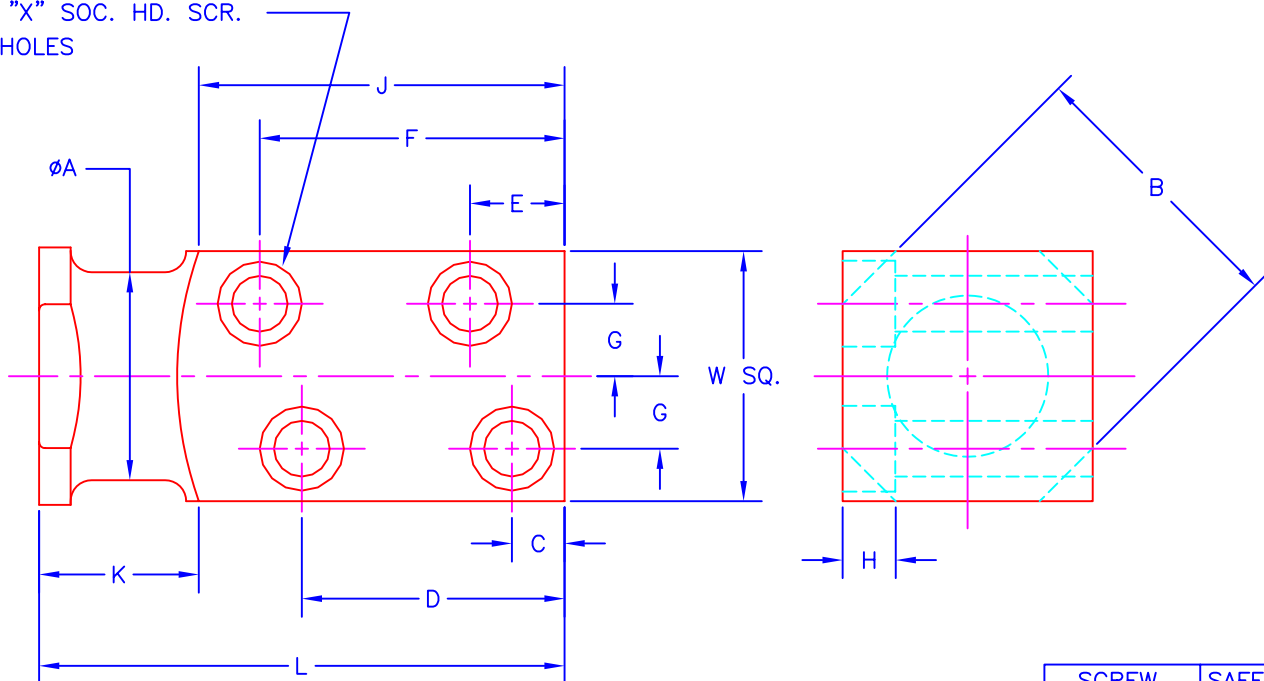


JOLICO NO.	REF. NO.	A	B	C	D	E	LOAD EACH PIN (LBS.)
J-81400	06005003	2.50	10.56	9.06	3.50	1.75	26,740
J-81401	06005029	2.50	12.31	10.81	3.50	1.75	25,000
J-81402	06005045	3.25	14.56	13.06	4.25	2.12	46,000



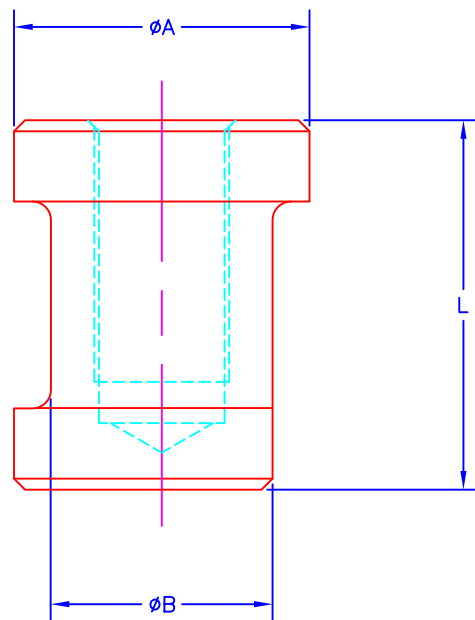
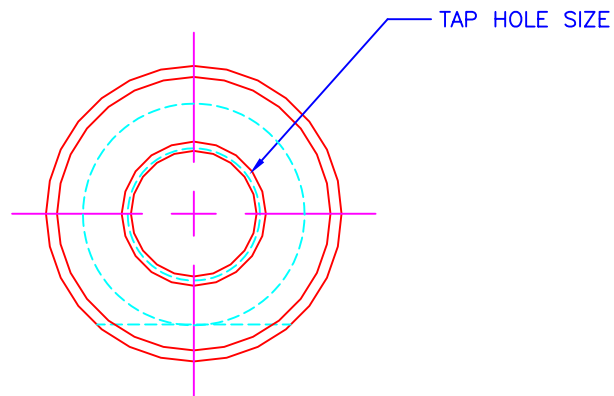
JOLICO NO.	REF. NO.	ϕA	B	C	D	E	F	G	L	W	SCREW SIZE "X"	SAFE WORK LOAD PER BOLLARD
J-81001	06308209	1.00	1.56	1.50	2.00	0.56	2.50	1.50	4.00	1.50	1/2 X 2	2,750 LBS.
J-81002	06308225	1.25	2.00	0.62	2.50	0.69	3.09	1.66	4.75	1.75	5/8 X 2	4,400 LBS.
J-81003	06308241	1.62	2.38	0.72	2.88	0.81	3.53	1.97	5.50	2.00	3/4 X 3	7,040 LBS.
J-81004	06308266	2.00	2.75	0.88	3.19	1.06	4.06	2.19	6.25	2.50	1 X 3-1/4	11,000 LBS.

FOR "X" SOC. HD. SCR.
(4) HOLES



JOLICO NO.	REF. NO.	ϕA	B	C	D	E	F	G	H	J	K	L	W	SCREW SIZE "X"	SAFE WORK LOAD PER BOLLARD
J-81005	06308282	3.00	3.75	0.75	3.81	1.56	4.62	0.88	0.81	5.44	2.44	7.88	3.50	3/4X4-1/2	17,600 LBS.
J-81006	06308308	3.12	4.31	1.00	4.88	1.75	5.62	1.00	1.06	6.69	3.06	9.75	4.00	1 X 5	27,500 LBS.
J-81007	06308324	4.00	5.25	1.19	6.00	2.00	6.88	1.25	1.31	8.06	3.69	11.75	5.00	1-1/4 X 6	44,000 LBS.

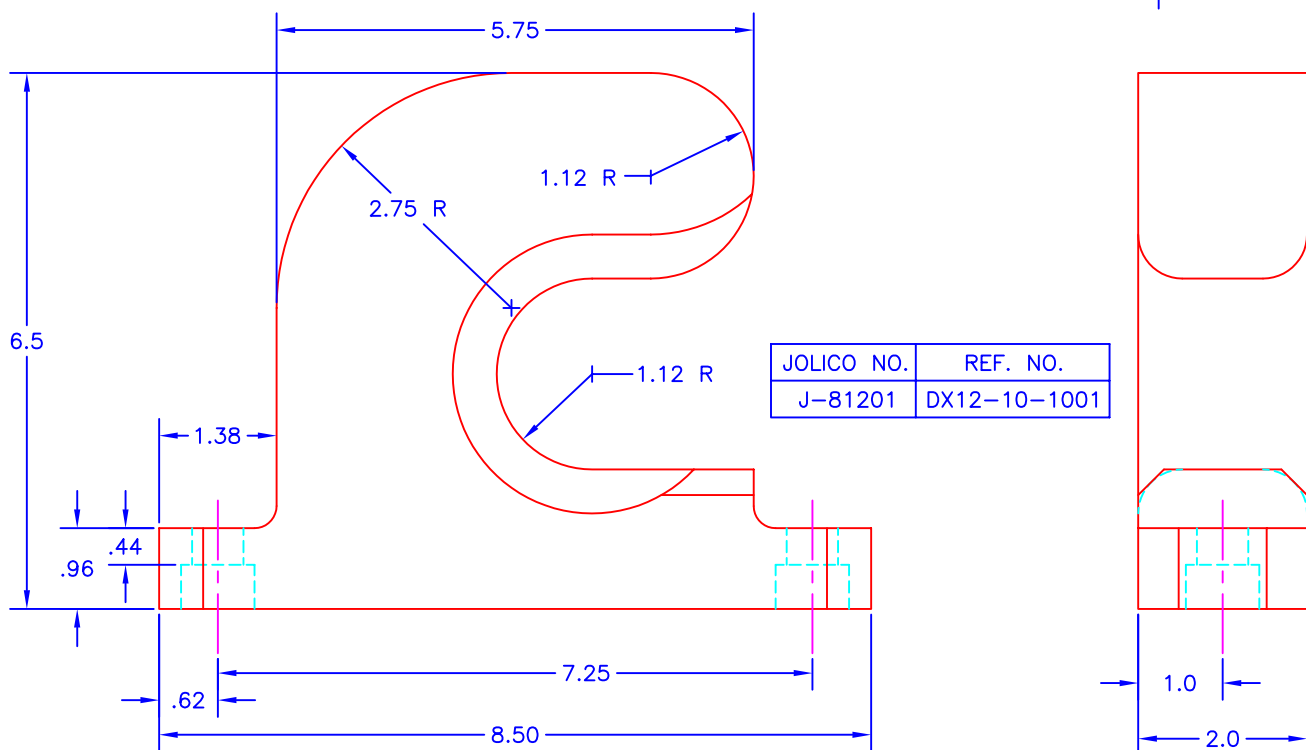
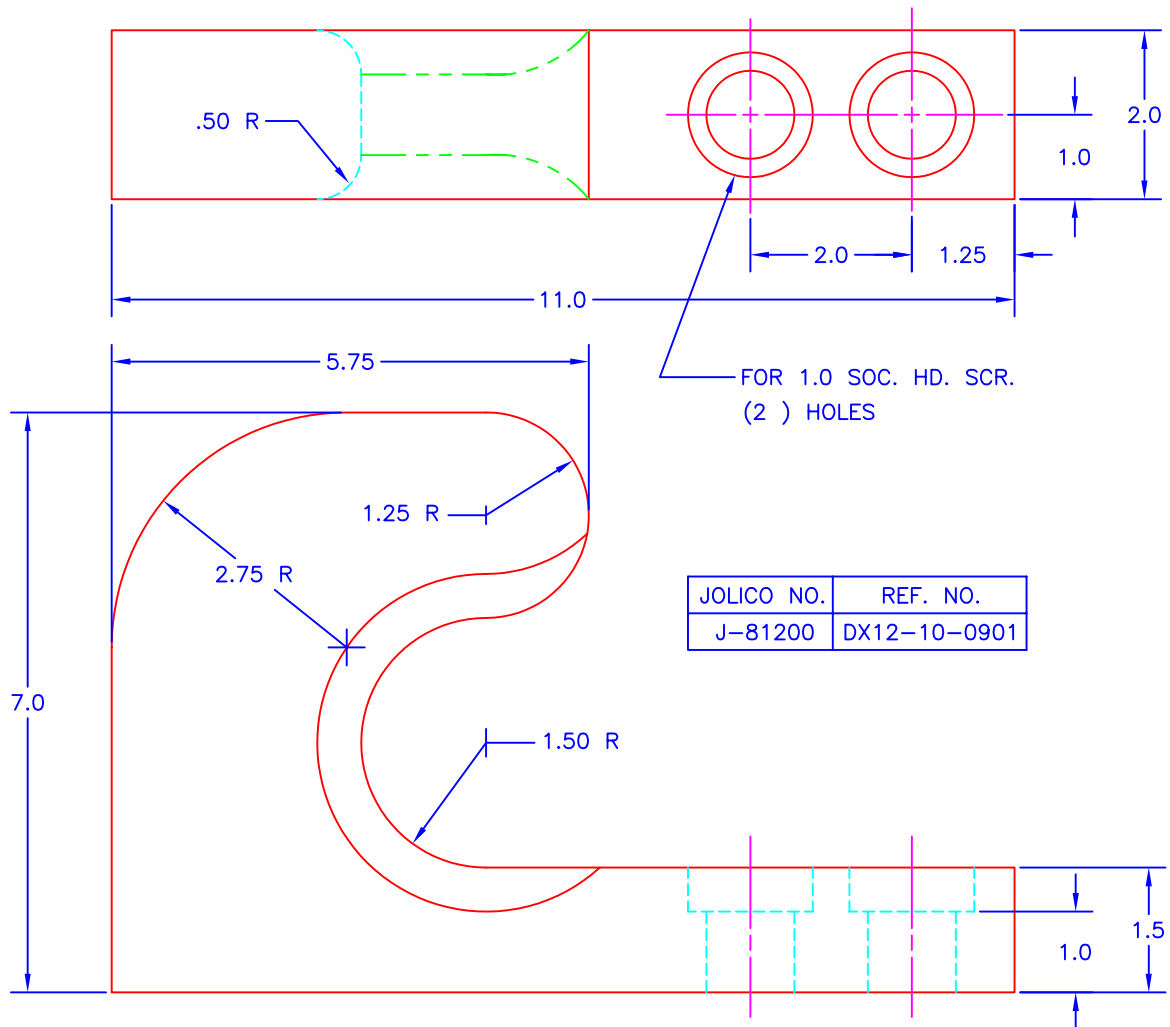
EYE BOLT INSERTS



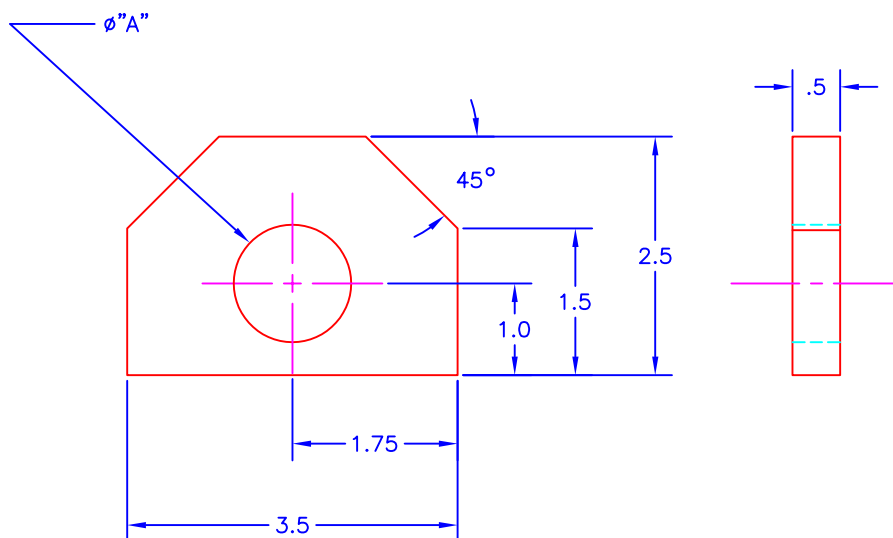
JOLICO NO.	REF. NO.	TAP	ϕA	ϕB	L
		HOLE SIZE			
J-81150	DX12-10-1201	3/4-10	1.88	1.38	2.84
J-81151	DX12-10-1202	1-8	2.12	1.62	3.47
J-81152	DX12-10-1203	1-1/2-6	3.12	2.38	4.73

DIE SETTING PULL HOOKS

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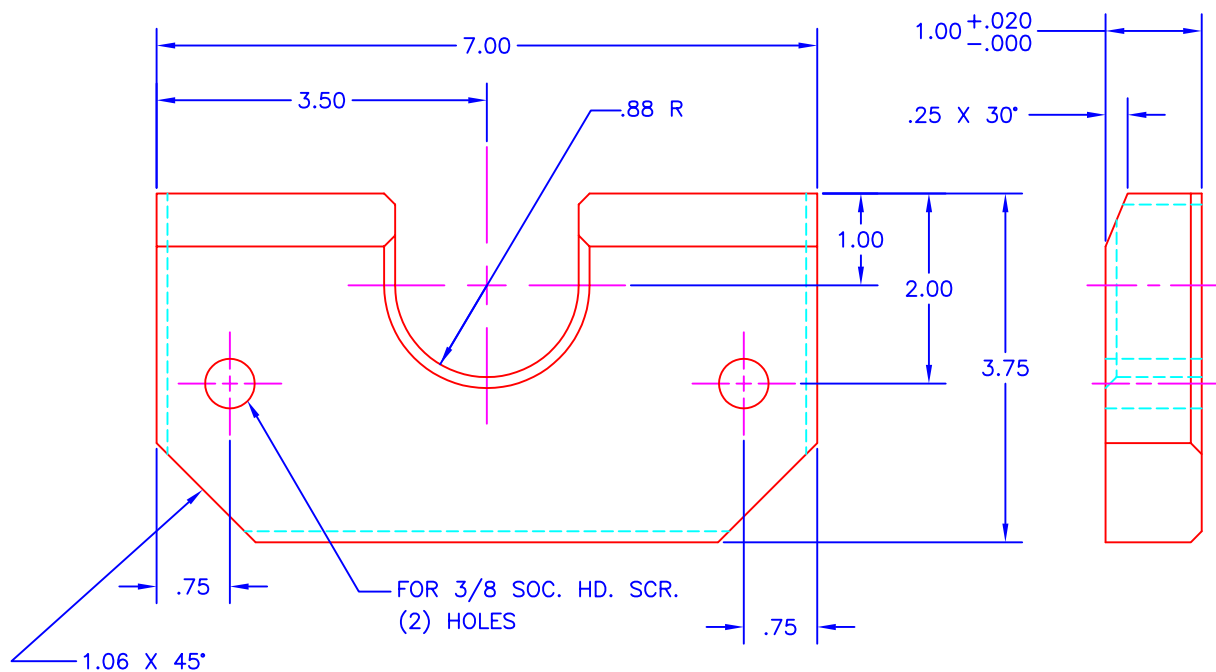


DIE WASHER



JOLICO NO.	REF. NO.	ϕA
J-12003	20-914-3003	.81
J-12004	20-914-3004	1.06

FASTENING PLATE

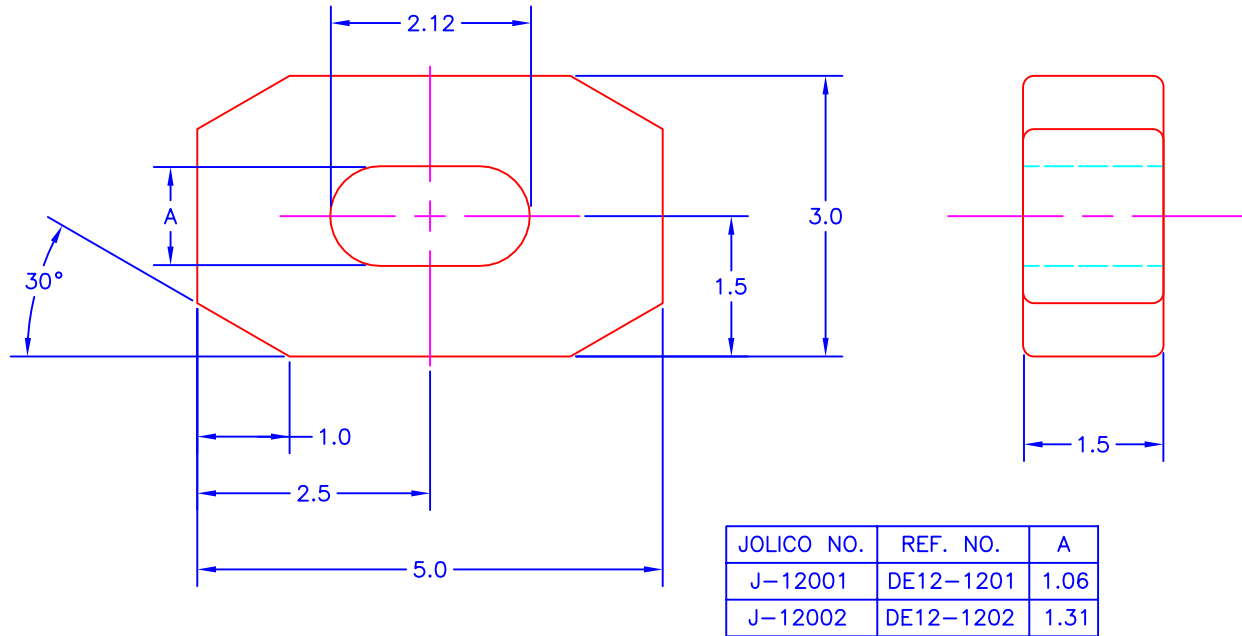


JOLICO NO.	REF. NO.
J-12009	20-914-4701

CLAMP BARS

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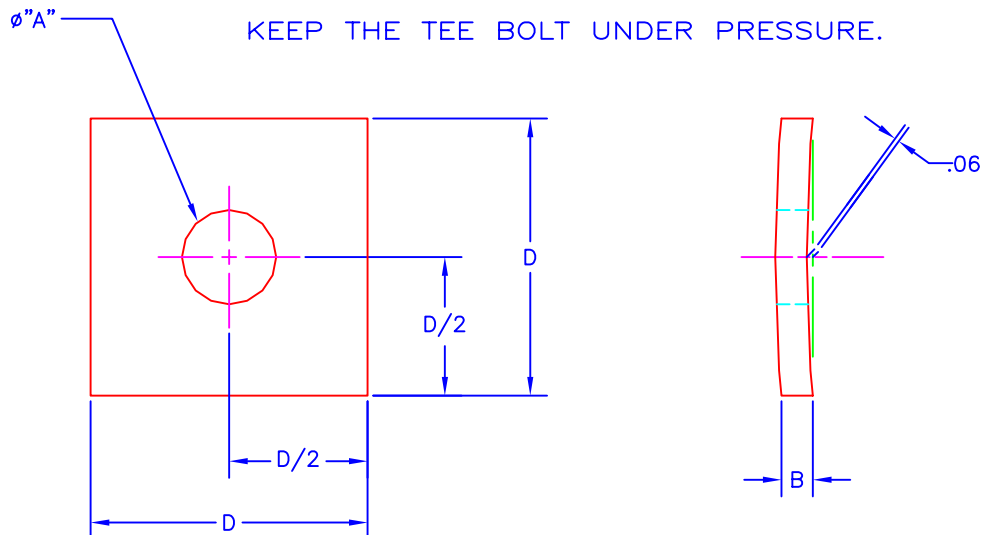
CLAMP BARS ARE USED FOR DIE FASTENING TO PRESS.
THEY SPREAD OUT THE PRESSURE OVER A LARGER
AREA THAN THE SPRING WASHER ALONE WOULD.



NOTE:
WILL QUOTE AND MANUFACTURE ANY
SPECIALS UPON CUSTOMERS REQUEST.

SPRING WASHERS

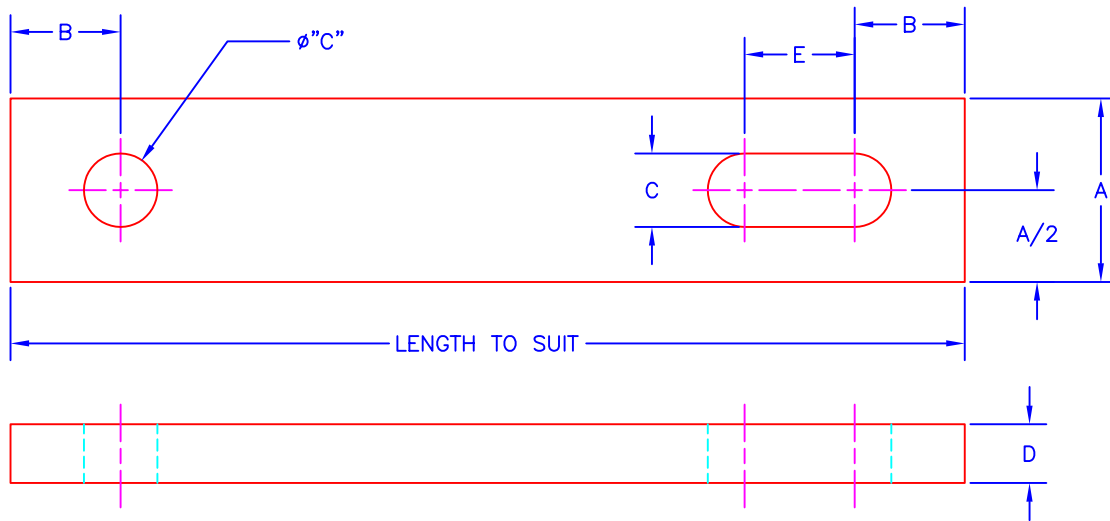
THE SPRING WASHERS FUNCTION IS TO ALWAYS
KEEP THE TEE BOLT UNDER PRESSURE.



JOLICO NO.	REF. NO.	A	B	D
J-12005	DE12-1205	.81	.25	2.00
J-12006	DE12-1206	1.06	.32	3.00
J-12007	DE12-1207	1.31	.32	3.00

SAFETY STRAPS

SAFETY STRAPS ARE USED FOR DIE STORAGE AND TRANSPORTING.
THEY TIE THE PUNCH SHOE TO THE DIE SHOE.



NOTE:

WILL QUOTE AND MANUFACTURE ANY SPECIALS UPON CUSTOMER'S REQUEST.

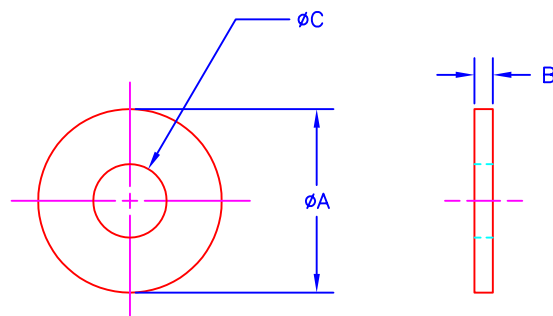
ORDERING EXAMPLE:

J-25472 X 12 LONG

JOLICO NO.	REF. NO.	REF. NO.	A	B	C	D	E	BOLT SIZE
J-25471	DK1-0104	TS-20	2.0	1.25	0.81	0.62	1.25	3/4-10
J-25472	DK1-0105	TS-25	2.5	1.25	0.81	0.62	1.25	3/4-10
J-25473	DK1-0106	TS-30	3.0	1.50	1.06	0.75	1.25	1-8
J-25474	DK1-0107	TS-35	3.5	1.75	1.31	0.75	1.25	1 1/4-7
J-25475	BU. STY. #1	—	2.0	1.00	0.78	0.75	0.50	3/4-10
J-25476	BU. STY. #2	—	3.0	1.50	1.03	1.00	0.50	1-8

SAFETY STRAP WASHERS

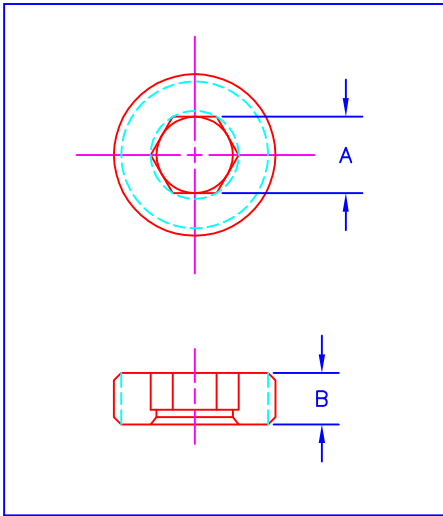
THESE ITEMS ARE USED IN CONJUNCTION WITH THE SAFETY STRAPS ABOVE.



JOLICO NO.	REF. NO.	REF. NO.	A	B	C	USE WITH
J-25481	J-25471-A	DK1-0101	2.0	0.14	0.81	J-25471 & 2
J-25483	J-25473-A	DK1-0102	2.5	0.15	1.06	J-25473
J-25484	J-25474-A	DK1-0103	3.0	0.17	1.38	J-25474

SPECIAL SOCKET HEAD SET SCREWS

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UNCONTROLLED



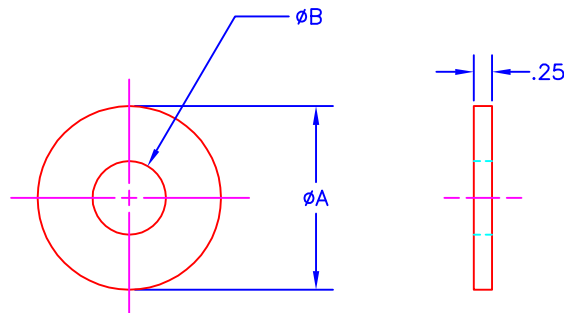
JOLICO NO.	SIZE	A	CAP SCREW	B
J-11070	5/8-18	.25	5/16	.50
J-11071	3/4-16	.31	3/8	
J-11072	1 1/8-12	.50	5/8	
J-11073	7/8-14	.38	1/2	
J-11074	1-14	.50	5/8	
J-11075	1 1/4-12	.62	3/4	
J-11076	1 1/2-12	.62	1.0	
J-11077	1 3/4-12	.75	1.0	
J-111027	M-27x2	12mm	M16	15
J-111036	M-36x3	16mm	M20	15

THESE SET SCREWS HAVE BEEN DESIGNED FOR THE PRIME USE OF LOCKING SOCKET HEAD CAP SCREWS. THEY ARE USED IN HIGH PRODUCTION AND COSTLY DIES TO LOCK THE INTERNAL CAP SCREWS IN PLACE, TO PREVENT THEM FROM WORKING LOOSE AND FALLING INTO THE WORKING AREA OF THE DIE, CAUSING SEVERE DAMAGE TO THE DIE.

THE SOCKET WRENCH OPENING IS THE SAME SIZE AS THE CAP SCREW OPENING, BUT DOES NOT EXTEND ALL THE WAY THROUGHOUT THE SCREW. THIS SAVES THE DIE MAKER TIME, AS HE DOES NOT HAVE TO CHANGE WRENCHES.

THEY MAY ALSO BE USED UNDER SPRINGS FOR THE EASY REMOVAL OF BROKEN SPRINGS.

SPECIAL WASHERS

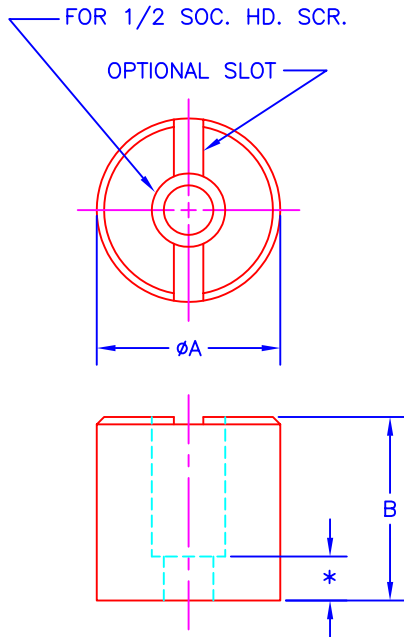


JOLICO NO.	A	B
J-25485	3.00	1.50
J-25488	1.75	0.76
J-25489	2.00	1.01
J-25490	1.50	1.06

STOP BLOCKS

PRINTED COPY IS
UNCONTROLLED

STOP BLOCKS ARE USED TO SET
THE PROPER SHUT HEIGHT AT DIE SET UP.



* .5 WHEN STOP BLOCK IS LESS
THAN 2.5 IN HEIGHT AND 1.25
WHEN 2.5 OR HIGHER.

ALL STOP BLOCKS ARE PLUS
1/16 IN HEIGHT FOR FITTING

(OPTIONAL SLOT) WHEN ORDERING
ADD "S" TO CATALOG NUMBER

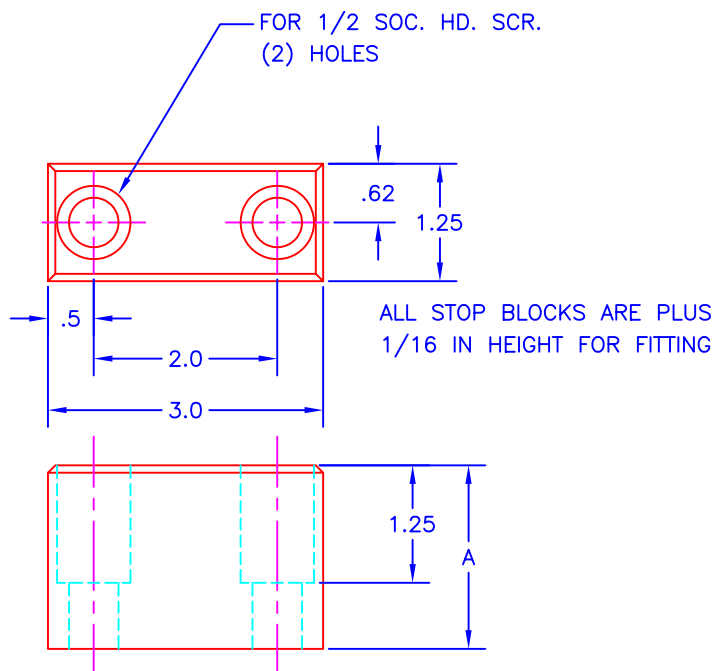
NOTE:

WILL QUOTE AND MANUFACTURE ANY
SPECIALS UPON CUSTOMER REQUEST.

REF. NO. DX13-10-1003 X LG.		
JOLICO NO.	A	B
J-28011	2.00	1.25
J-28012	2.00	1.50
J-28013	2.00	1.75
J-28020	2.00	2.00
J-28021	2.00	2.25
J-28022	2.00	2.50
J-28023	2.00	2.75
J-28030	2.00	3.00
J-28031	2.00	3.25
J-28032	2.00	3.50
J-28033	2.00	3.75
J-28040	2.00	4.00
J-28041	2.00	4.25
J-28042	2.00	4.50
J-28043	2.00	4.75
J-28050	2.00	5.00
J-28051	2.00	5.25
J-28052	2.00	5.50
J-28053	2.00	5.75
J-28060	2.00	6.00
J-28061	2.00	6.25
J-28062	2.00	6.50

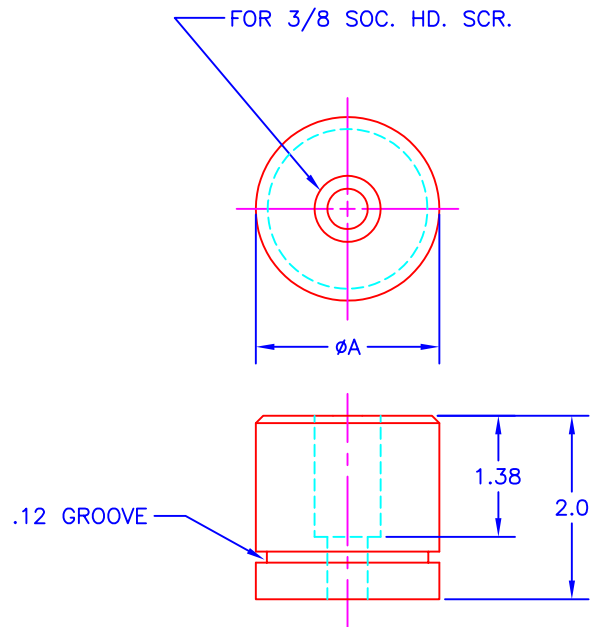
REF. NO. DX13-10-1004 X LG.		
JOLICO NO.	A	B
J-28111	2.50	1.25
J-28112	2.50	1.50
J-28113	2.50	1.75
J-28120	2.50	2.00
J-28121	2.50	2.25
J-28122	2.50	2.50
J-28123	2.50	2.75
J-28130	2.50	3.00
J-28131	2.50	3.25
J-28132	2.50	3.50
J-28133	2.50	3.75
J-28140	2.50	4.00
J-28141	2.50	4.25
J-28142	2.50	4.50
J-28143	2.50	4.75
J-28150	2.50	5.00
J-28151	2.50	5.25
J-28152	2.50	5.50
J-28153	2.50	5.75
J-28160	2.50	6.00
J-28161	2.50	6.25
J-28162	2.50	6.50

JOLICO NO.	A
J-28513	1.75
J-28520	2.00
J-28521	2.25
J-28522	2.50
J-28523	2.75
J-28530	3.00
J-28531	3.25
J-28532	3.50
J-28533	3.75
J-28540	4.00
J-28541	4.25
J-28542	4.50
J-28543	4.75
J-28550	5.00
J-28551	5.25
J-28552	5.50
J-28553	5.75
J-28560	6.00

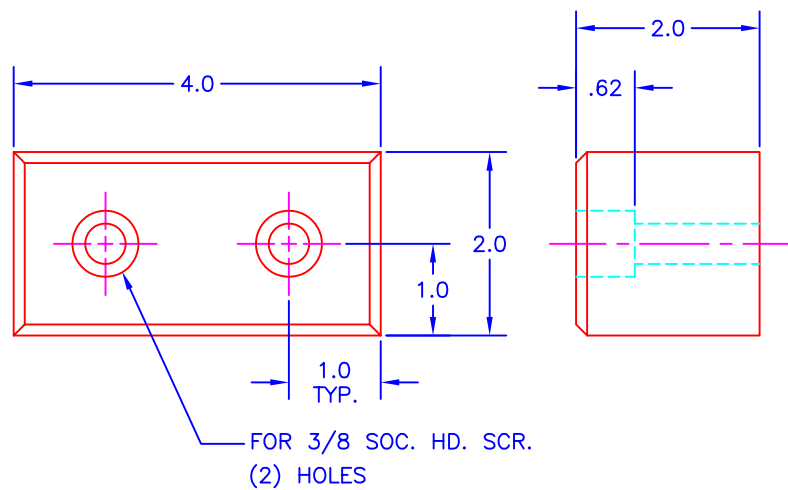


STOP BLOCKS

PRINTED COPY IS
UNCONTROLLED

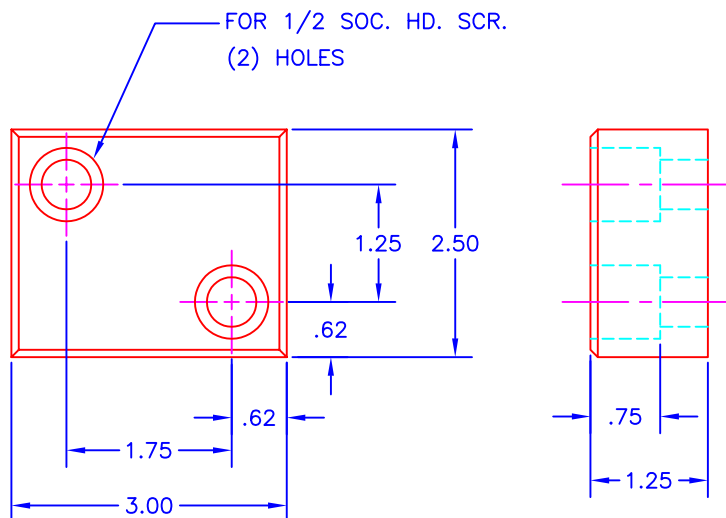


JOLICO NO.	REF. NO.	A
J-28301	M-1040-1	1.50
J-28302	M-1040-2	2.00



JOLICO NO.	REF. NO.
J-28620	M-1420

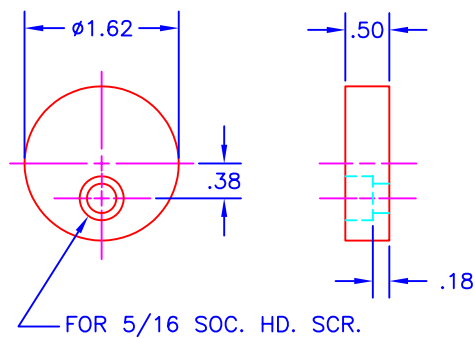
SPACER BLOCK



JOLICO NO.	REF. NO.
J-28101	0600467

BACKING PLATE

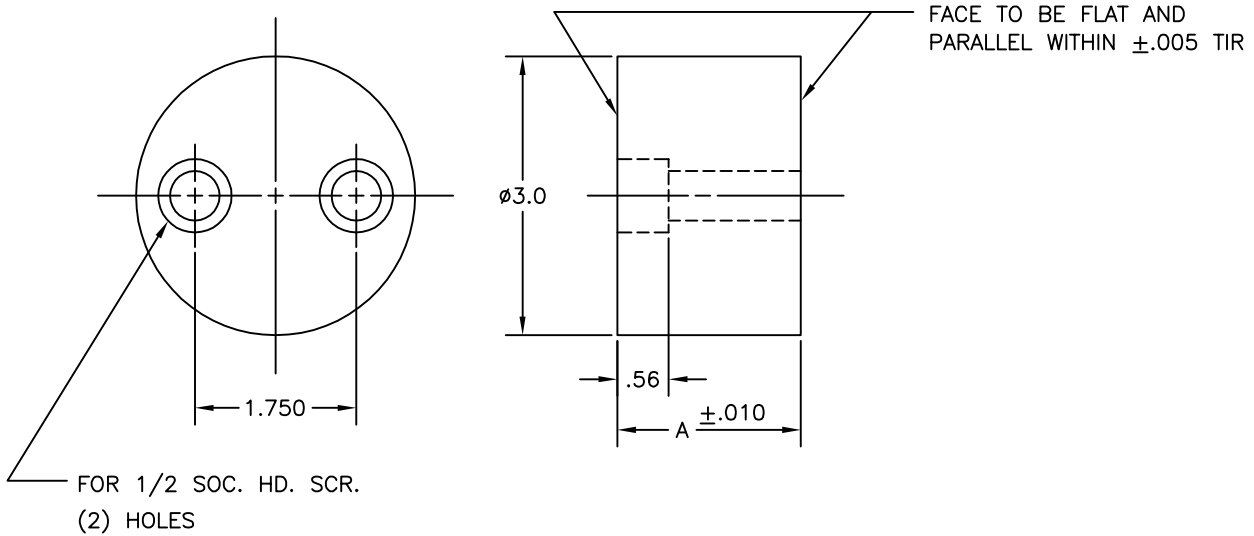
THIS ITEM IS USED IN CONJUNCTION WITH THE MARKER OF AN
OBLONG TYPE BOTTOMING MARKER. IT GIVES THE MARKER
A HARDEN SURFACE TO REST ON.



JOLICO NO.	REF. NO.
J-99201	DX20-6-0201

STRIKER PLATE

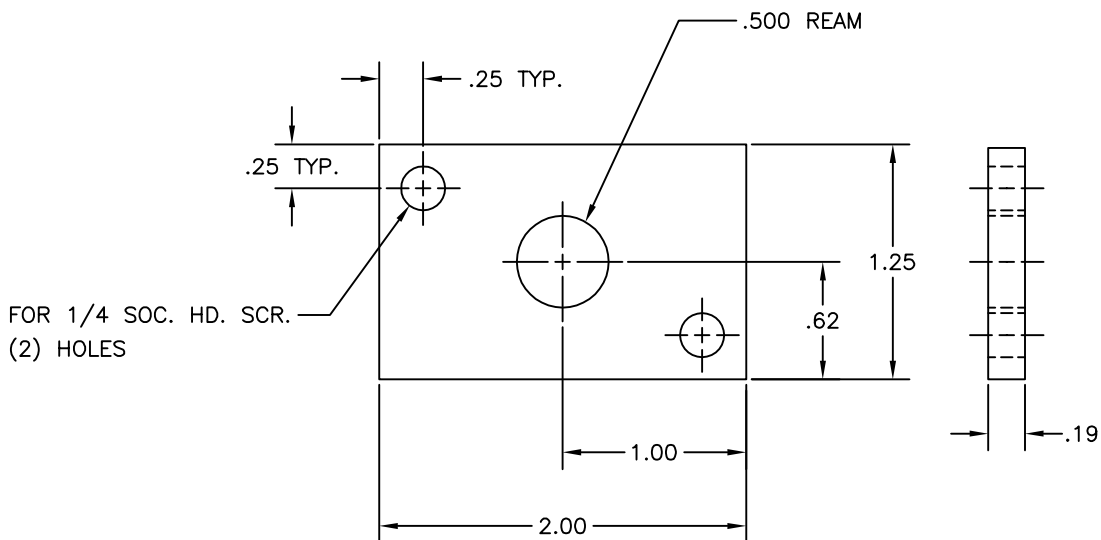
PRINTED COPY IS
UNCONTROLLED



JOLICO NO.	REF. NO.	A
J-49300	M-1385-A	1.00
J-49301	M-1385-B	1.50
J-49302	M-1385-C	2.00
J-49303	M-1385	*

* PLEASE SPECIFY "A" DIM.

RETAINER PLATE

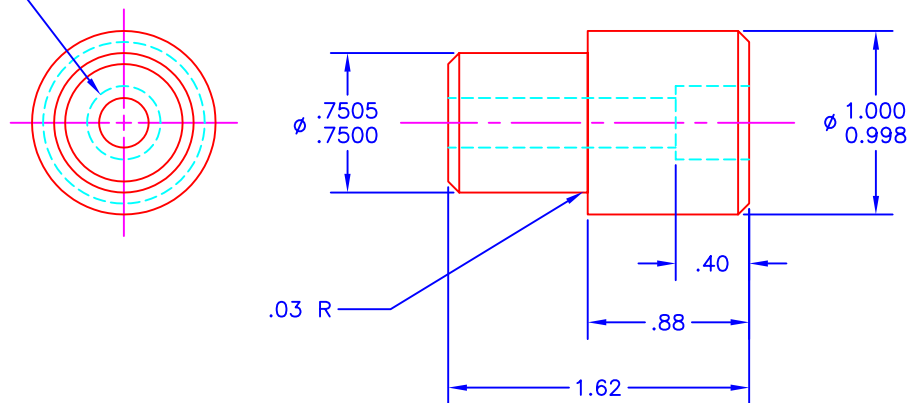


JOLICO NO.	REF. NO.
J-61990	M-1077

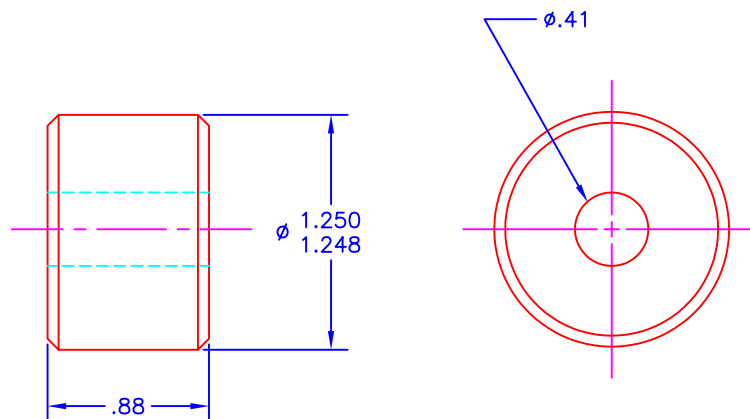
LOCATING PLUGS

LOCATING PLUGS ARE NORMALLY USED FOR LOCATING HARNESSSES ON DIES, BUT THEY CAN BE USED TO RELOCATE ANY DETAIL THAT IS PUT ON AND TAKEN OFF REPEATEDLY.

FOR 3/8 SOC. HD. SCR.



JOLICO NO.	REF. NO.
J-96300	DH10-0101

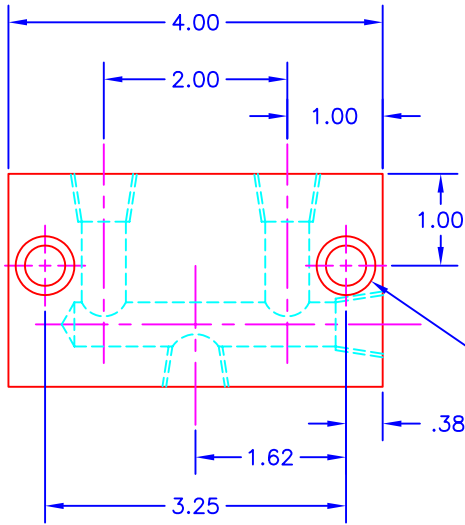


JOLICO NO.	REF. NO.
J-96299	DH10-0102

AIR LINE HEADER BLOCKS

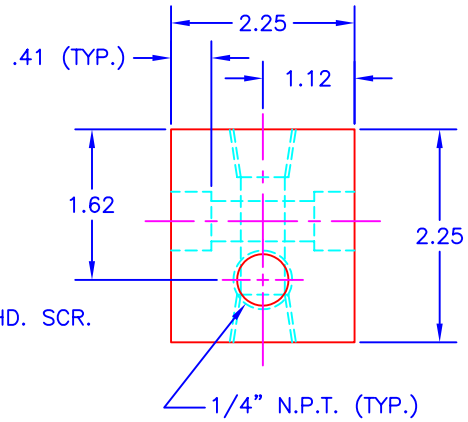
THESE HEADER BLOCKS ARE USED FOR SMALL CYLINDERS.

J-21400 ALLOWS TWO CYLINDERS TO BE FED FROM ONE QUICK DISCONNECT.

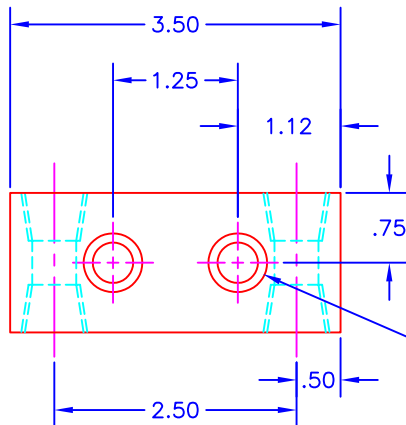


FOR 3/8" SOC. HD. SCR.
(2) HOLES

JOLICO NO.	REF. NO.
J-21400	AC-100

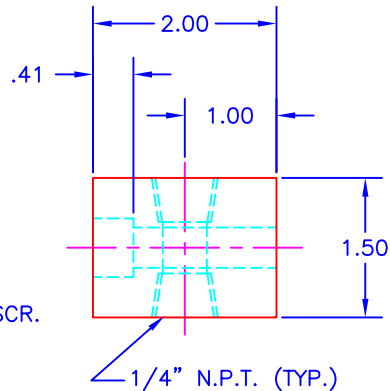


1/4" N.P.T. (TYP.)

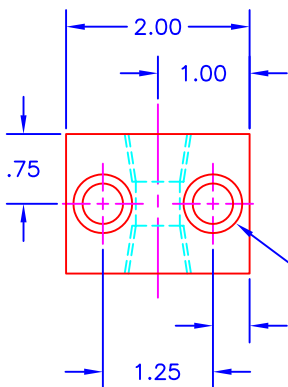


FOR 3/8" SOC. HD. SCR.
(2) HOLES

JOLICO NO.	REF. NO.
J-21401	AC-101

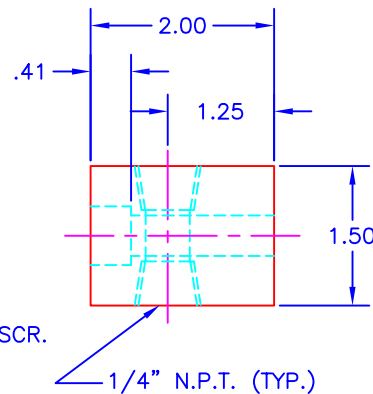


1/4" N.P.T. (TYP.)



FOR 3/8" SOC. HD. SCR.
(2) HOLES

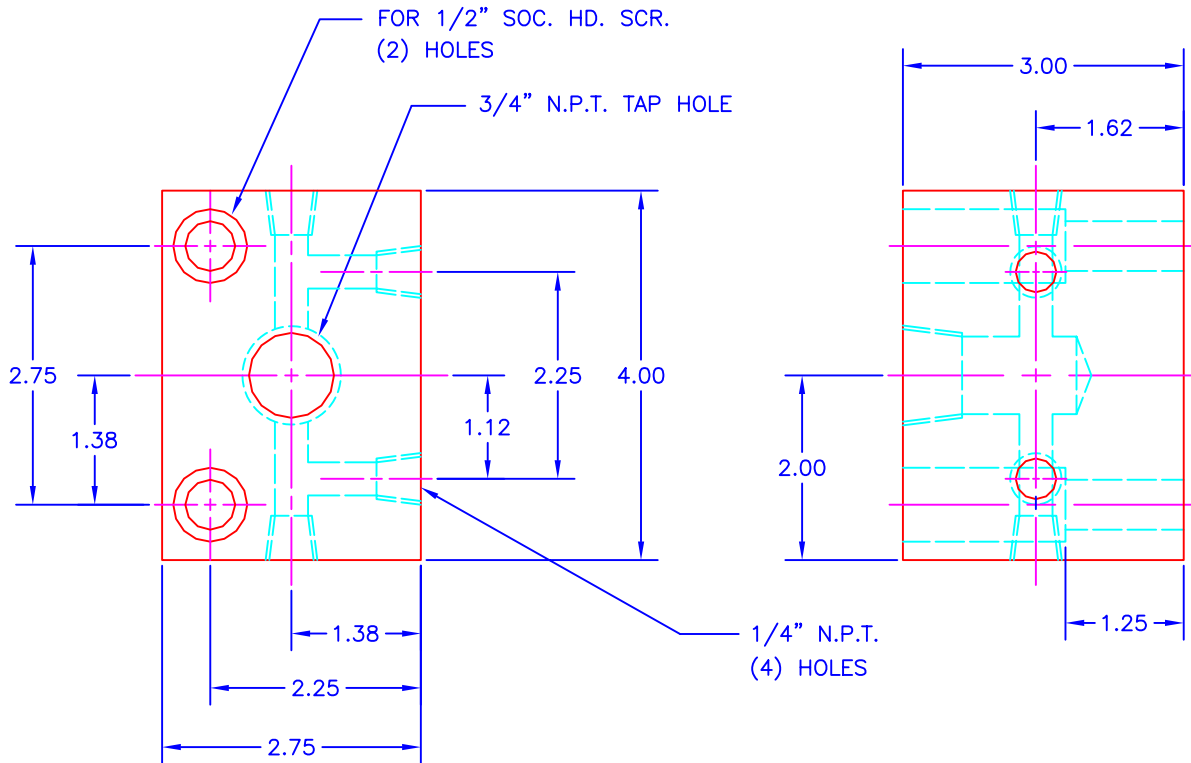
JOLICO NO.	REF. NO.
J-21402	AC-102



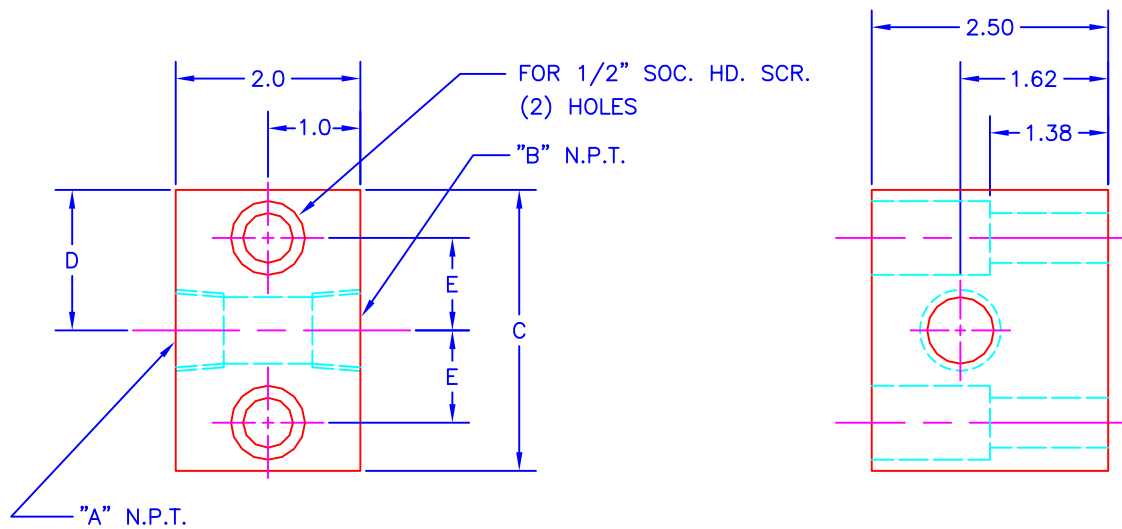
1/4" N.P.T. (TYP.)

AIR LINE HEADER BLOCKS

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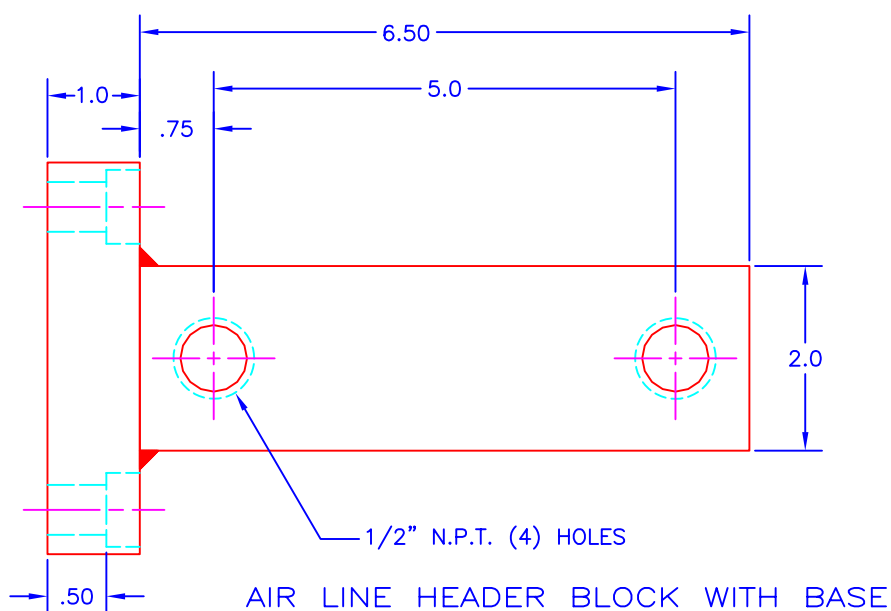


JOLICO NO.	REF. NO.
J-21265	DX35-26-0401

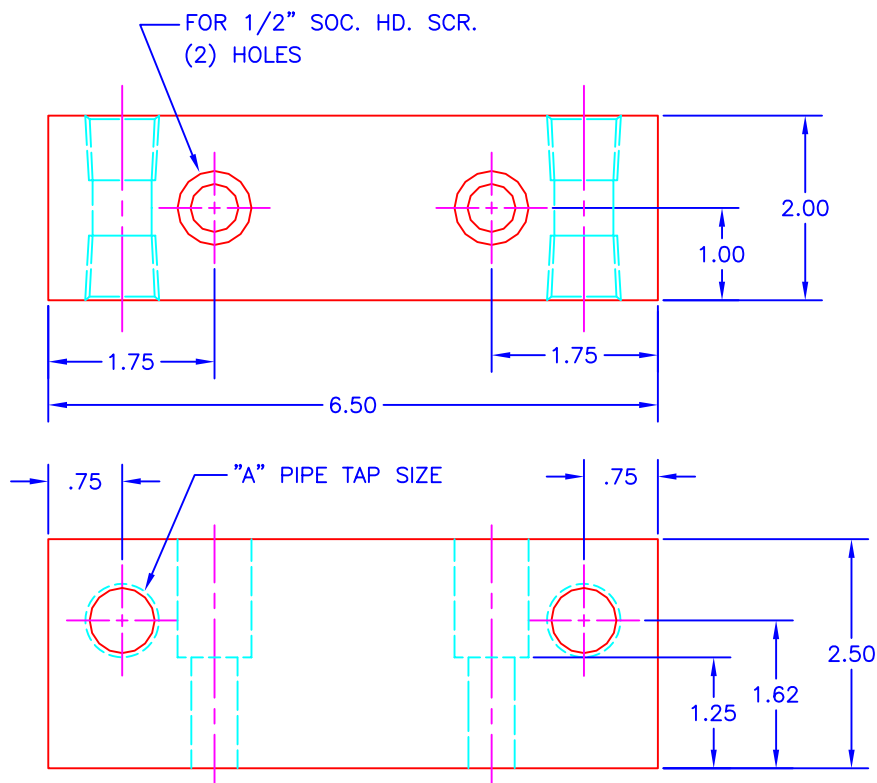
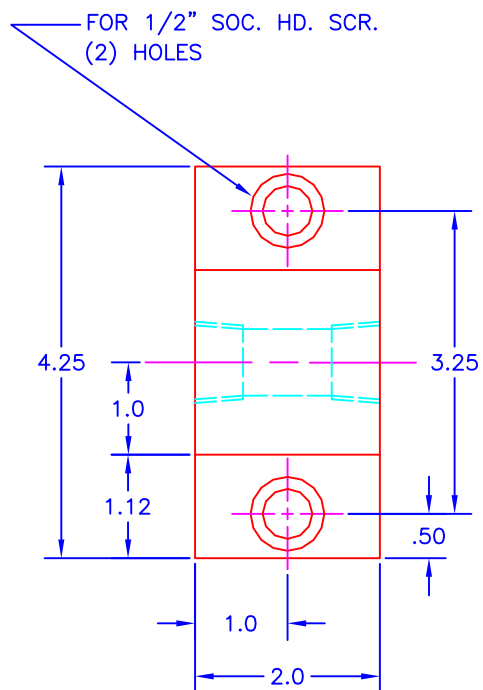


JOLICO NO.	REF. NO.	A	B	C	D	E
J-21262	DX35-26-0302	3/4" N.P.T.	3/4" N.P.T.	3.0	1.50	1.00
J-21263	DX35-26-0301	1/4" N.P.T.	3/8" N.P.T.	2.5	1.25	0.75
J-21264	DX35-26-0303	1/2" N.P.T.	1/2" N.P.T.	3.0	1.50	1.00

AIR LINE HEADER BLOCKS



JOLICO NO.	REF. NO.
J-21200	DX35-26-0102



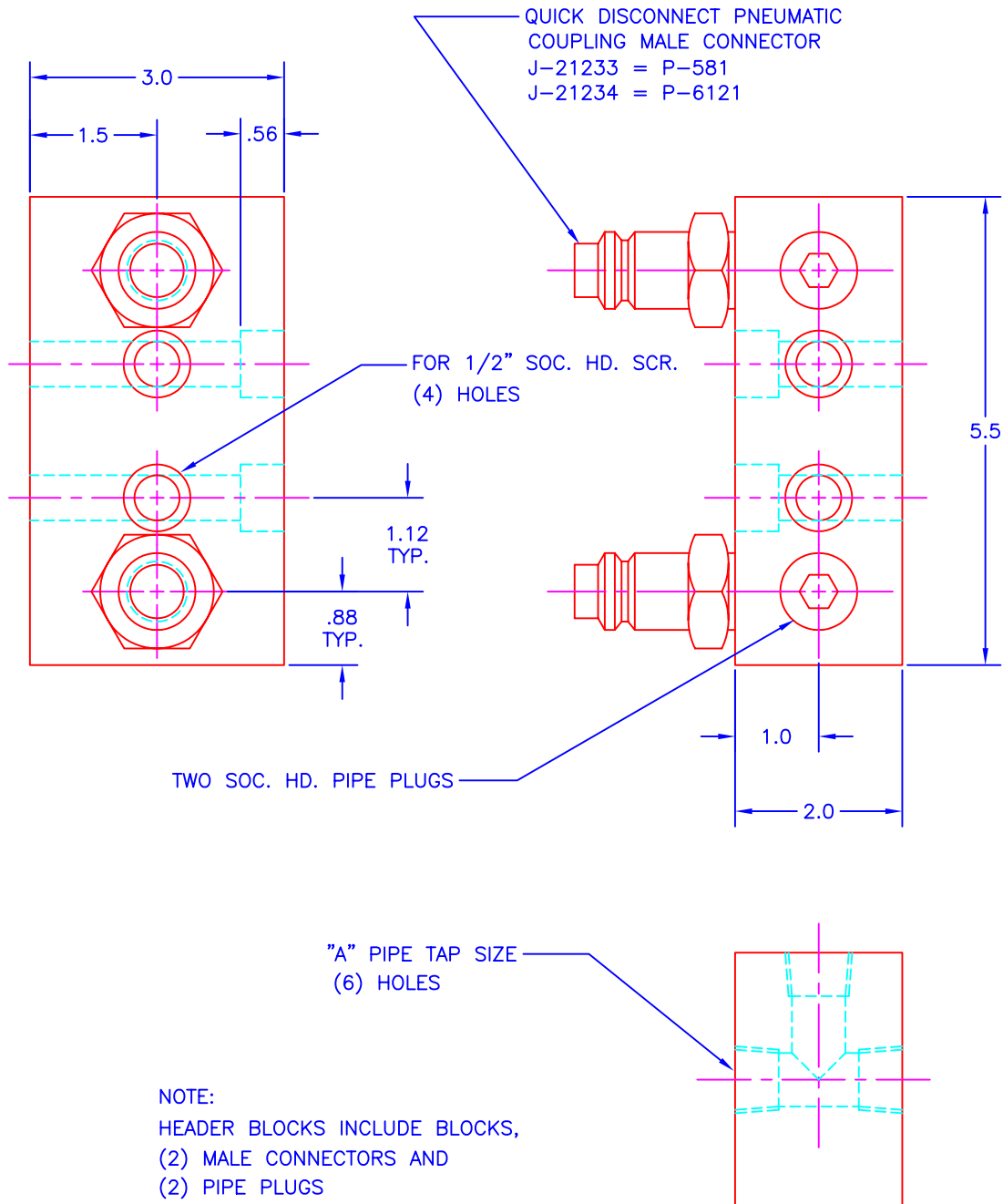
AIR LINE HEADER BLOCKS

JOLICO NO.	REF. NO.	"A" TAP SIZE
J-21201	DJ2-0101	3/4" N.P.T.
J-21202	DJ2-0102	1/2" N.P.T.

AIR LINE HEADER BLOCKS

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THESE DETAILS PERFORM THE SAME FUNCTION AS THOSE
ON PAGE JK-22, EXCEPT THESE BLOCKS ALLOW GREATER
FLEXIBILITY IN LOCATING THEM ON THE SHOE.

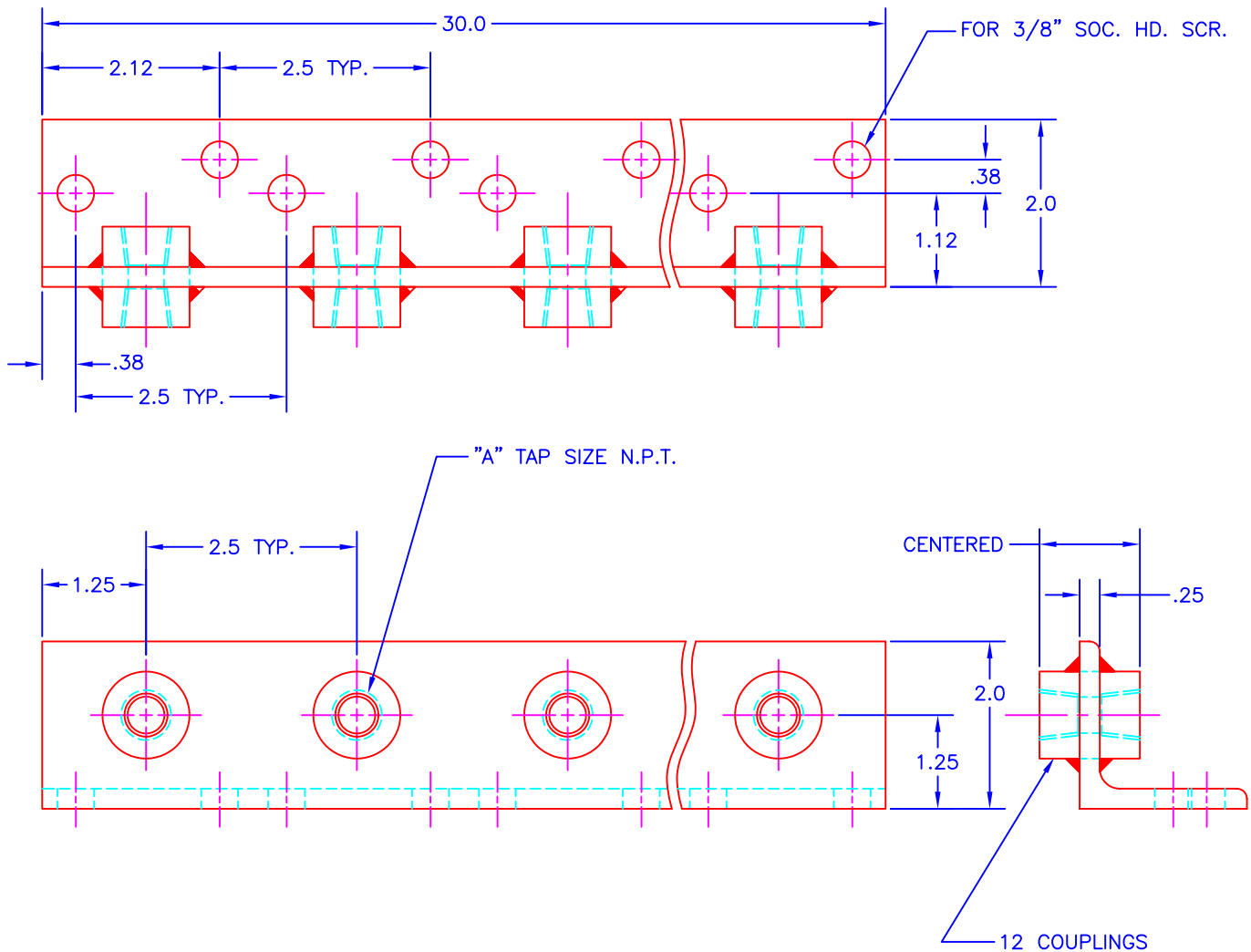


JOLICO NO.	REF. NO.	"A" TAP SIZE
J-21233	BUC. STYLE #1	1/2" N.P.T.
J-21234	BUC. STYLE #2	3/4" N.P.T.

AIR LINE HEADER

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UNCONTROLLED

THESE AIR HEADERS ARE USED IN AREAS WITH LIMITED
SPACE AND MORE THAN ONE PORT IS NECESSARY.

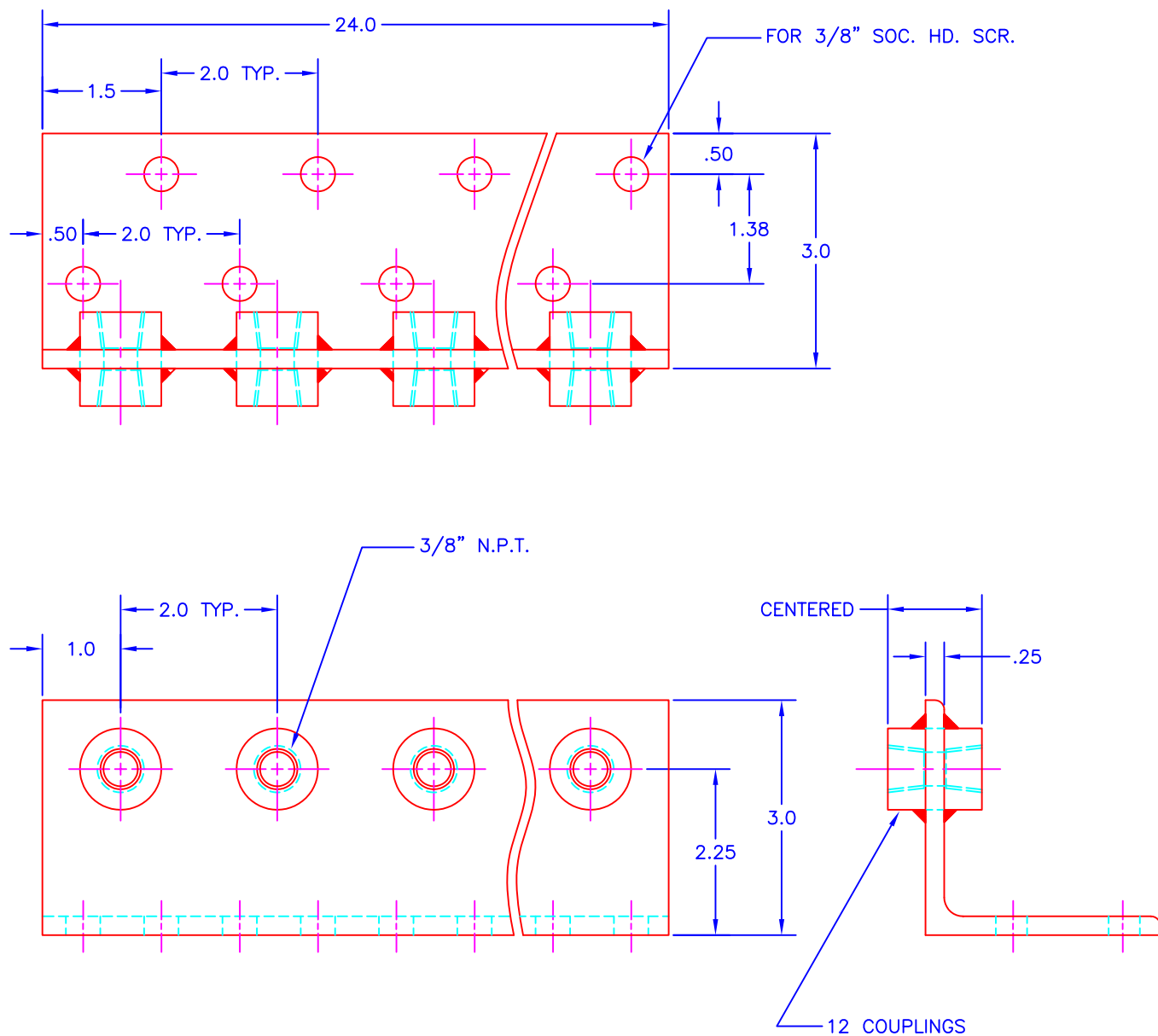


JOLICO NO.	REF. NO.	A TAP SIZE
J-21213	C-H-X-38	3/8" N.P.T.
J-21214	C-H-X-12	1/2" N.P.T.
J-21215	C-H-X-34	3/4" N.P.T.

NOTE:

WHEN ORDERING UNITS WITH LESS THAN
12 COUPLINGS SPECIFY NUMBER OF
COUPLINGS DESIRED. (EXAMPLE J-21213 X 8)

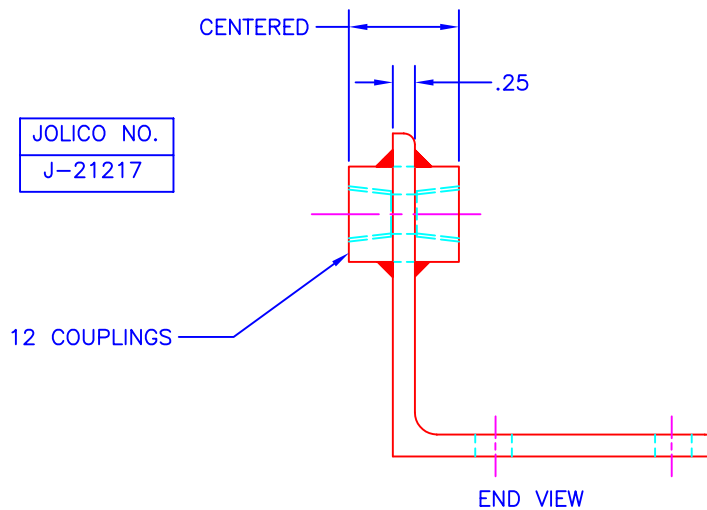
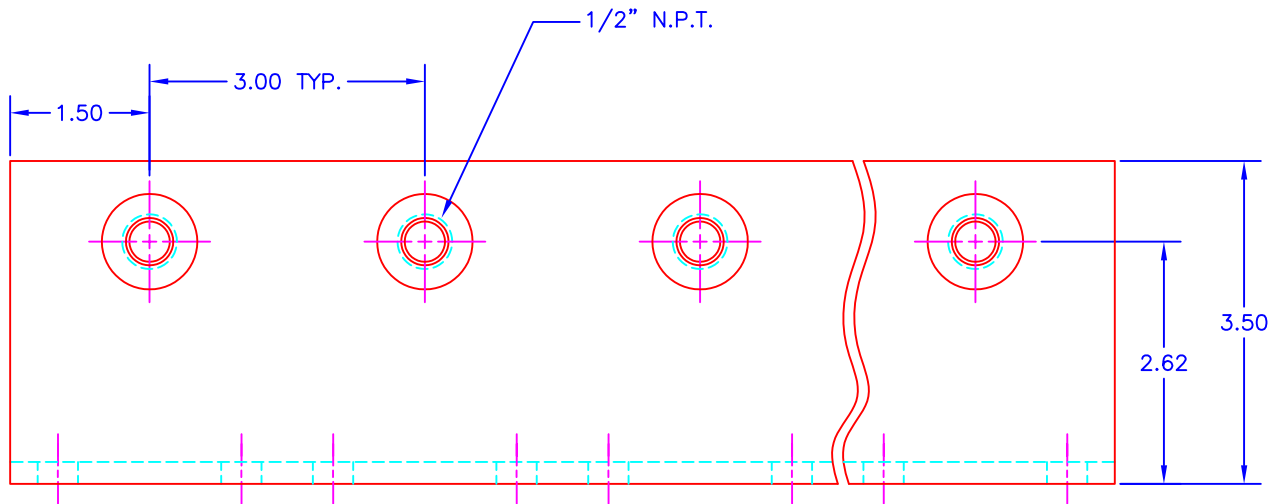
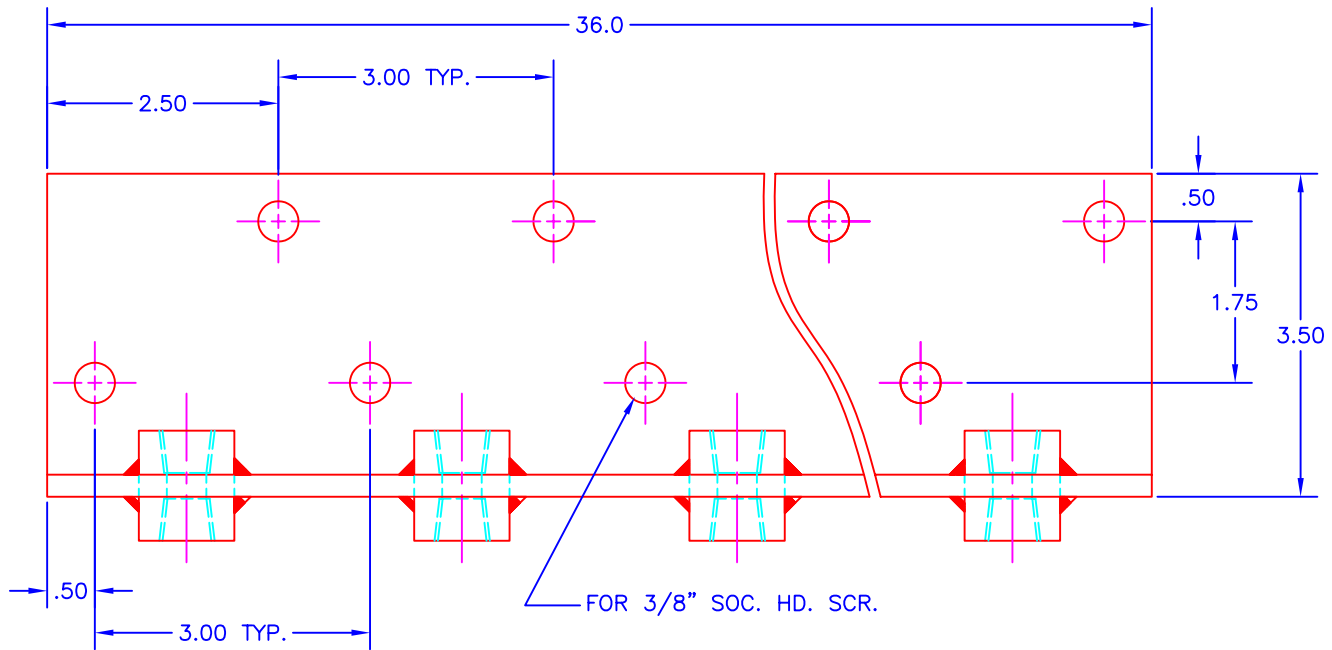
AIR LINE HEADER



JOLICO NO.
J-21216

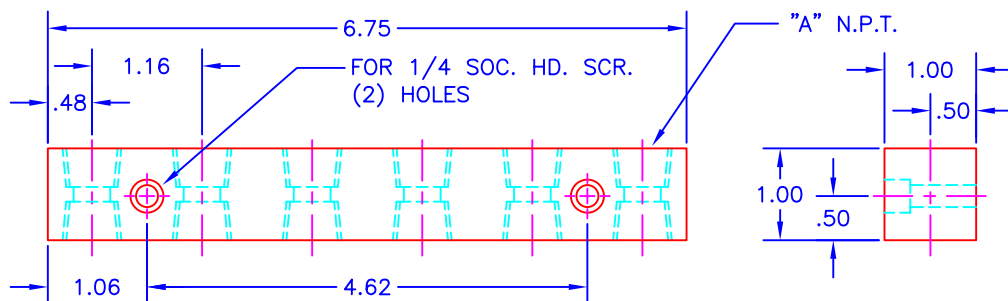
AIR LINE HEADER

PRINTED COPY IS
UNCONTROLLED



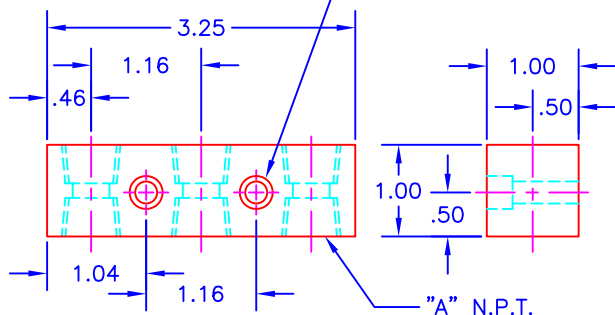
LUBRICATION HEADER BLOCKS

NOTE: SPECIAL LUBRICATION HEADER BLOCKS CAN BE
MANUFACTURED TO CUSTOMER'S SPECIFICATIONS UPON REQUEST.

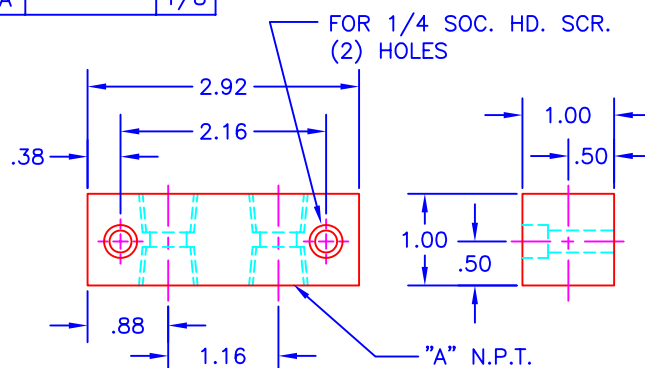


JOLICO NO.	OLD "J" NO.	REF. NO.	A
J-21101		DJ1-0101	1/4
J-21601	J-21101-A		1/8

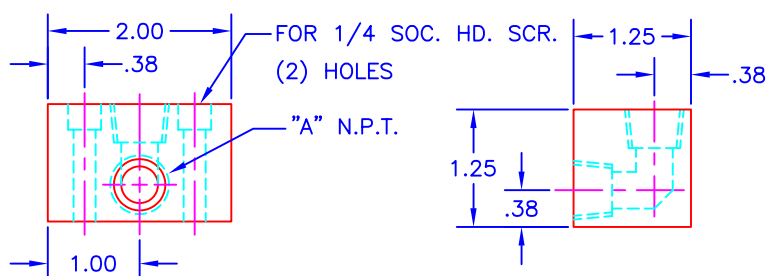
FOR 1/4 SOC. HD. SCR.
(2) HOLES



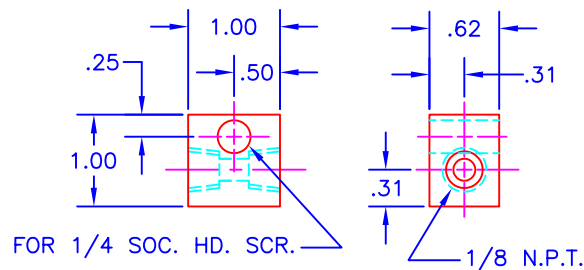
JOLICO NO.	OLD "J" NO.	REF. NO.	A
J-21102		DJ1-0102	1/4
J-21602	J-21102-A		1/8



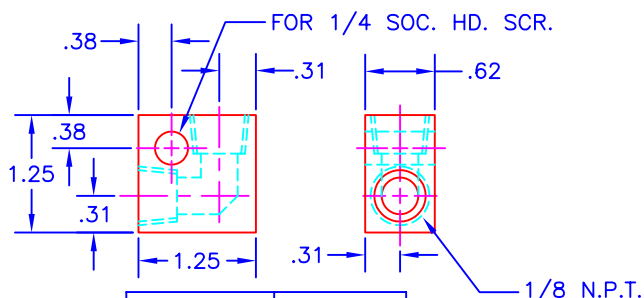
JOLICO NO.	OLD "J" NO.	REF. NO.	A
J-21103		DJ1-0103	1/4
J-21603	J-21103-A		1/8



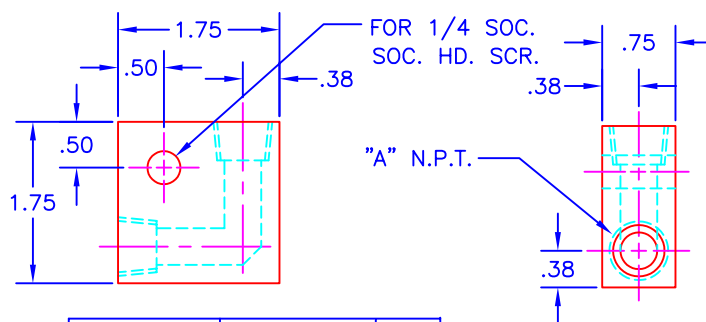
JOLICO NO.	OLD "J" NO.	REF. NO.	A
J-21303		LB2-0103	1/4
J-21803	J-21303-A		1/8



JOLICO NO.	REF. NO.
J-21302	LB3-0102



JOLICO NO.	REF. NO.
J-21301	LB3-0101



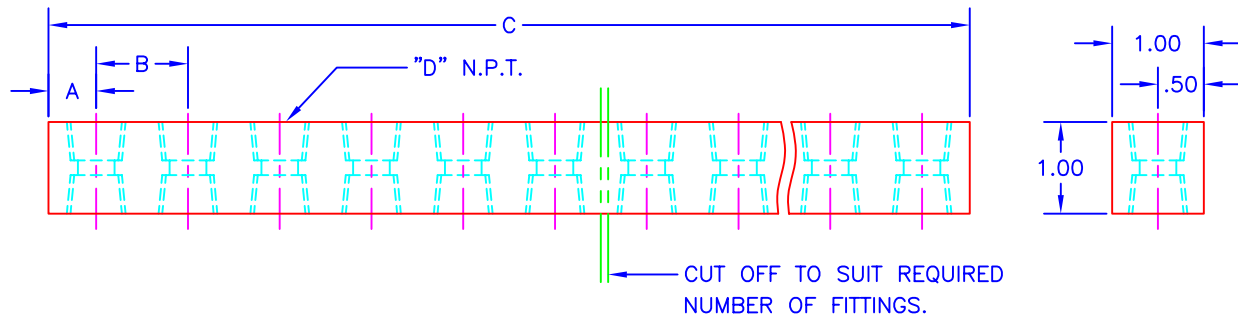
JOLICO NO.	OLD "J" NO.	A
J-21304		1/4
J-21804	J-21304-A	1/8

LUBRICATION HEADER BLOCKS

PRINTED COPY IS
UNCONTROLLED

NOTE:

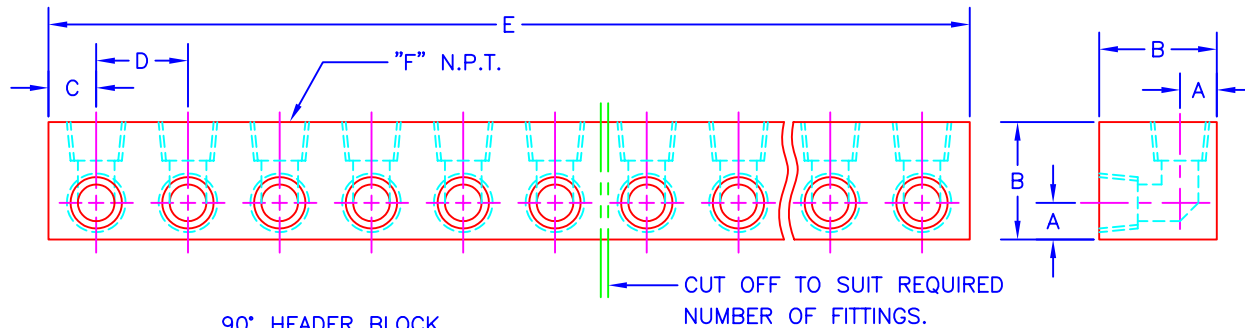
SPECIAL LUBRICATION HEADER BLOCKS CAN BE MANUFACTURED TO CUSTOMER'S SPECIFICATIONS UPON REQUEST. ADD NUMBER SUFFIX TO PART NUMBER TO SPECIFY NUMBER OF HOLES DESIRED, LESS THAN STANDARD NUMBER OF HOLES IN PART.
(EXAMPLE J-21612-9)



180° HEADER BLOCK

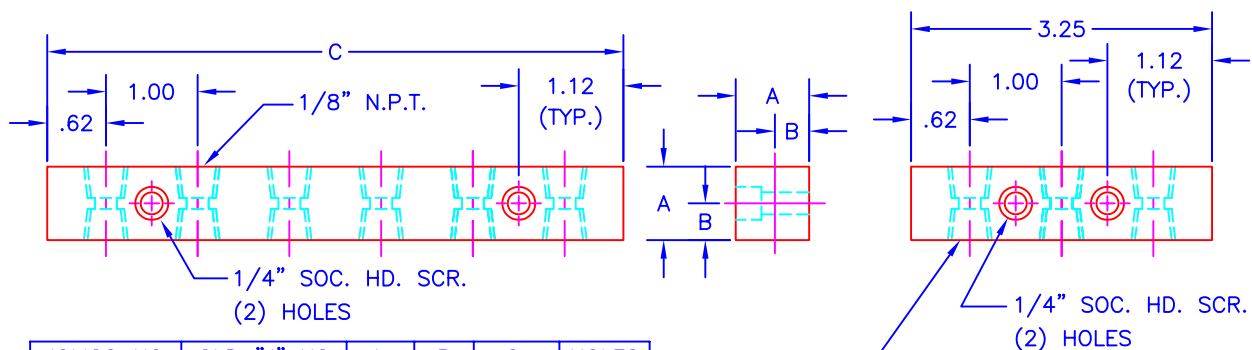
FASTENING HOLES TO BE
PUT IN AT ASSEMBLY

JOLICO NO.	OLD "J" NO.	A	B	C	D	HOLES
J-21112	_____	.50	1.00	25.00	1/4	25
J-21114	_____	.62	1.25	40.00	1/8	32
J-21612	J-21112-A	.50	1.00	25.00	1/8	25
J-21614	_____	.62	1.25	40.00	1/4	32



90° HEADER BLOCK

JOLICO NO.	OLD "J" NO.	REF. NO.	A	B	C	D	E	F	HOLES
J-21113	_____	_____	.38	1.25	.50	1.00	25.00	1/4	25
J-21115	_____	LH-11	.50	1.00	.62	1.25	40.00	1/8	32
J-21613	J-21113-A	_____	.38	1.25	.50	1.00	25.00	1/8	25
J-21615	_____	_____	.50	1.00	.62	1.25	40.00	1/4	32

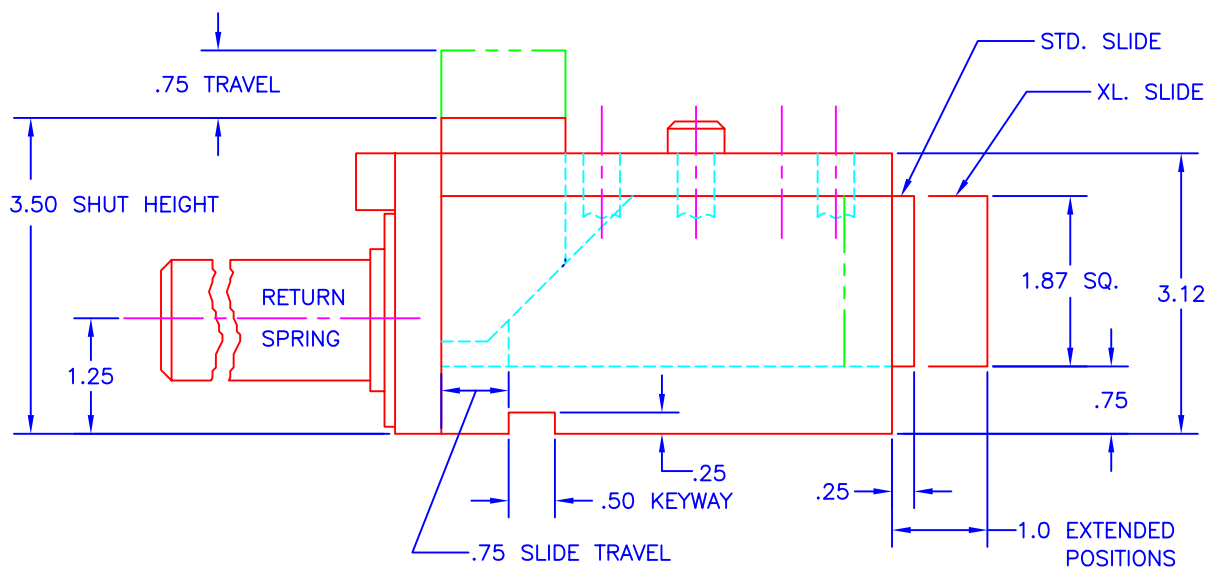
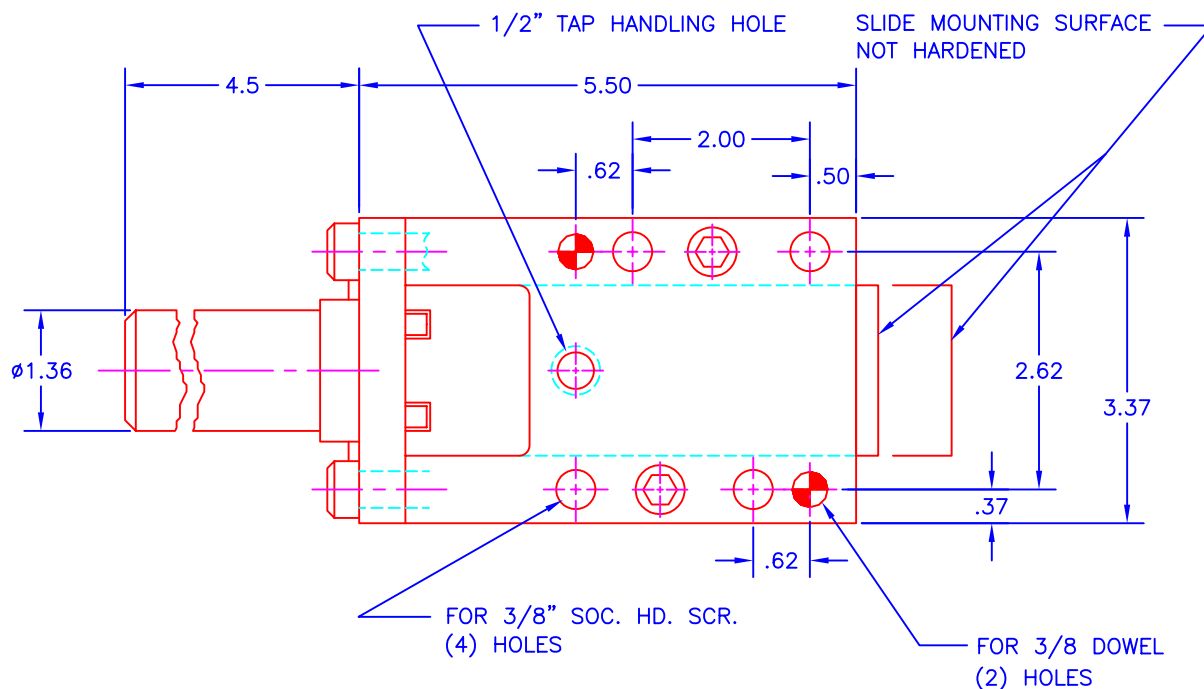


JOLICO NO.	OLD "J" NO.	A	B	C	HOLES
J-21108	_____	1.00	.50	6.25	6
J-21109	6136	.75	.38	6.25	6
J-21910	_____	.75	.38	10.25	10

JOLICO NO.	REF. NO.
J-21110	6135

SELF LUBE CAM SLIDE UNITS

THESE ASSEMBLIES ARE USED FOR PIERCING DIES PUNCHES,
CAN BE MOUNTED TO THE FACE OF THESE UNITS. UNITS CAN BE MOUNTED
FLAT OR ANGLED FROM DIRECTION NEEDED TO PIERCE THE PART.



- MAX. TONNAGE 10 TONS.
- USED ON METALS UP TO 3/32 THICK.
- 1" O.D. SPRING PROVIDED, IF MORE PRESSURE IS REQUIRED, 1-1/4 O.D. IS AVAILABLE.
- ADD THE SUFFIX (XL) TO THE END OF THE ORDERING NUMBER FOR LONGER SLIDE.
- ADD THE SUFFIX (XP) TO THE END OF THE ORDERING NUMBER FOR 1-1/4 DIA. SPRING.

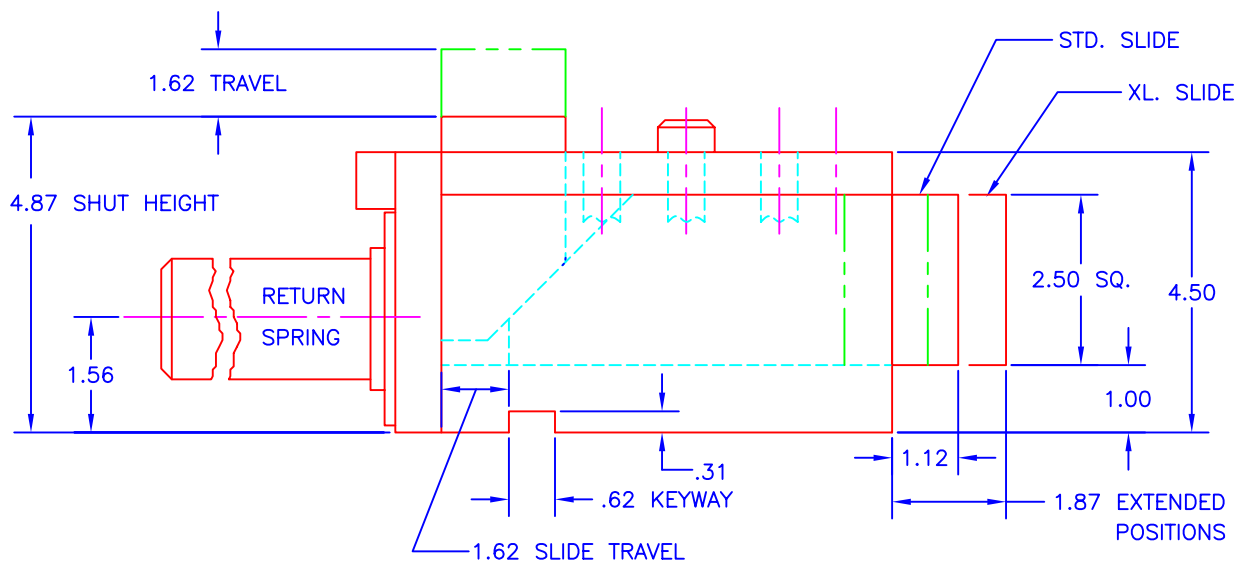
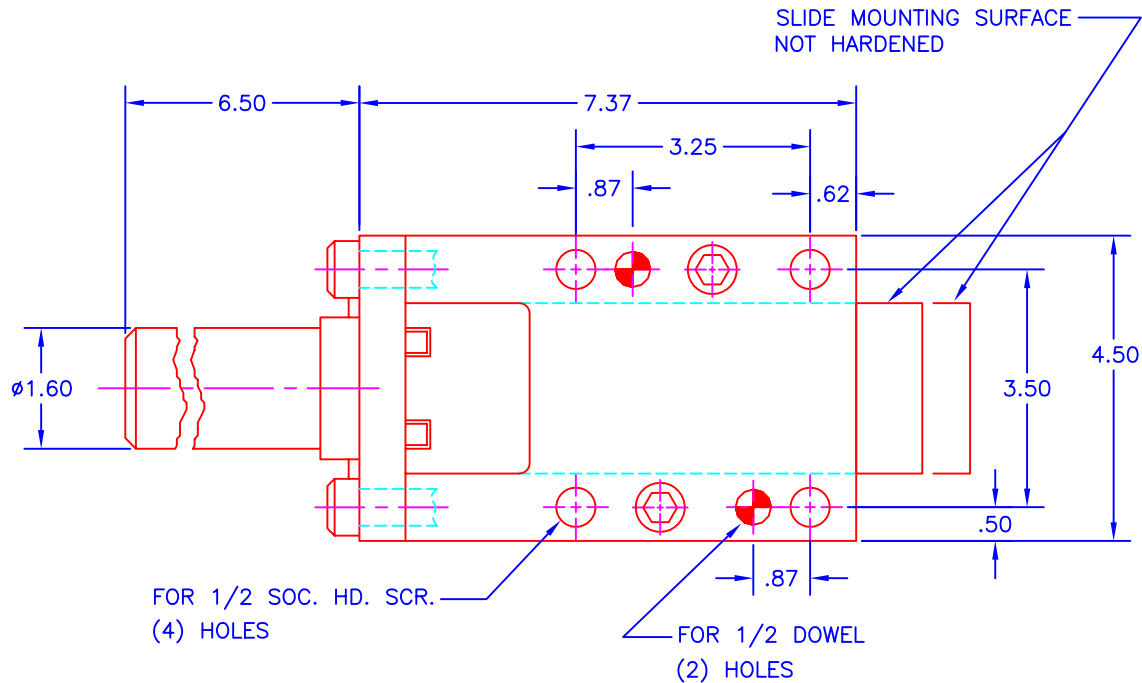
JOLICO NO.	REF. NO.
J-69801	DX7-12-0302

ORDERING EXAMPLE
J-69801-XL-XP

SELF LUBE CAM SLIDE UNITS

PRINTED COPY IS
UNCONTROLLED

THESE ASSEMBLIES ARE USED FOR PIERCING DIES PUNCHES, CAN BE MOUNTED TO THE FACE OF THESE UNITS. UNITS CAN BE MOUNTED FLAT OR ANGLED FROM DIRECTION NEEDED TO PIERCE THE PART.



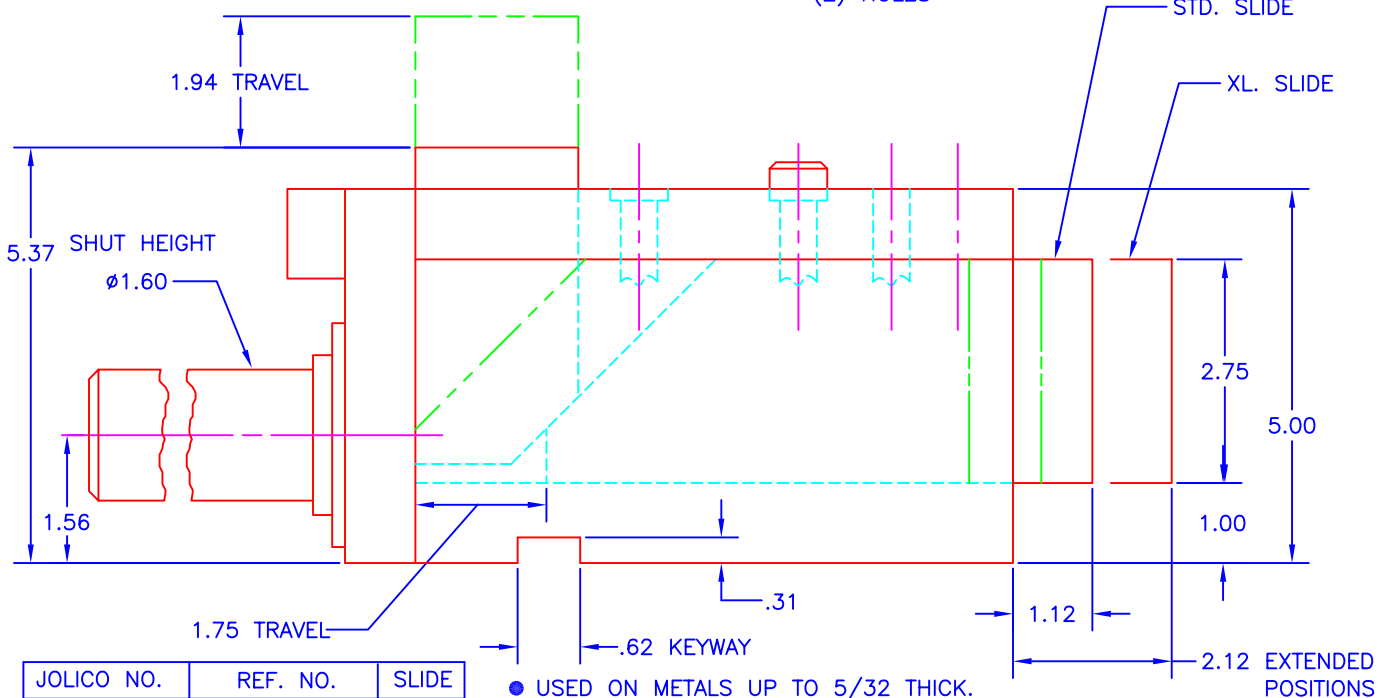
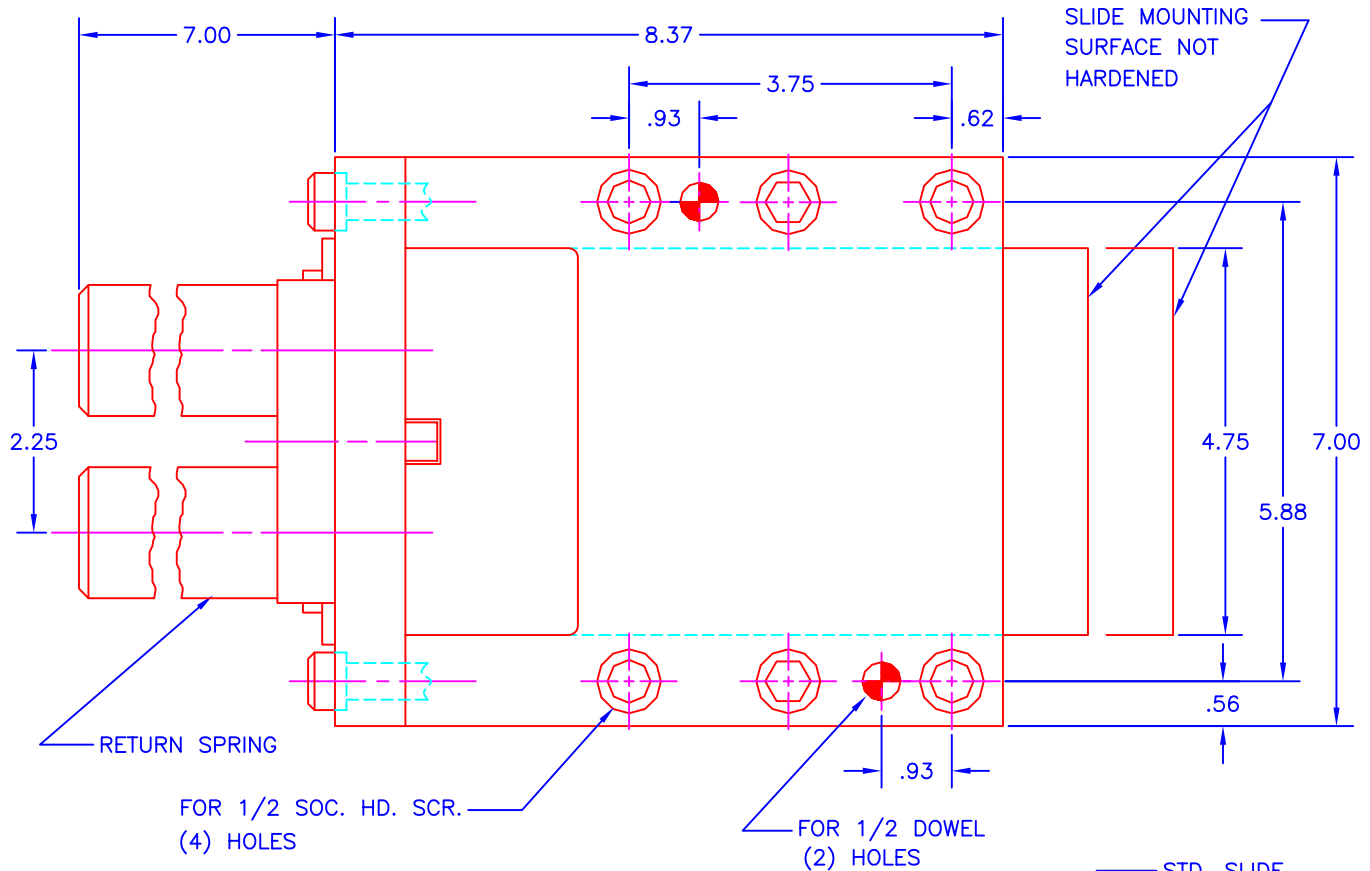
JOLICO NO.	REF. NO.	SLIDE
J-69802	DX7-12-0303	STD.
J-69802-XL	20-905-0410	XL

ORDERING EXAMPLE
J-69802-XL-XP

- MAX. TONNAGE 25 TONS.
- USED ON METALS UP TO 1/8 THICK.
- 1-1/4 O.D. SPRING PROVIDED, IF MORE PRESSURE IS REQUIRED, 1-1/2 O.D. IS AVAILABLE.
- ADD THE SUFFIX (XP) TO THE END OF THE ORDERING NUMBER FOR 1-1/2 DIA. SPRING.

SELF LUBE CAM SLIDE UNITS

THESE ASSEMBLIES ARE USED FOR PIERCING DIES PUNCHES,
CAN BE MOUNTED TO THE FACE OF THESE UNITS. UNITS CAN BE MOUNTED
FLAT OR ANGLED FROM DIRECTION NEEDED TO PIERCE THE PART.



JOLICO NO.	REF. NO.	SLIDE
J-69803	DX7-12-0401	STD.
J-69803-XL	20-905-0430	XL

ORDERING EXAMPLE
J-69803-XL-XP

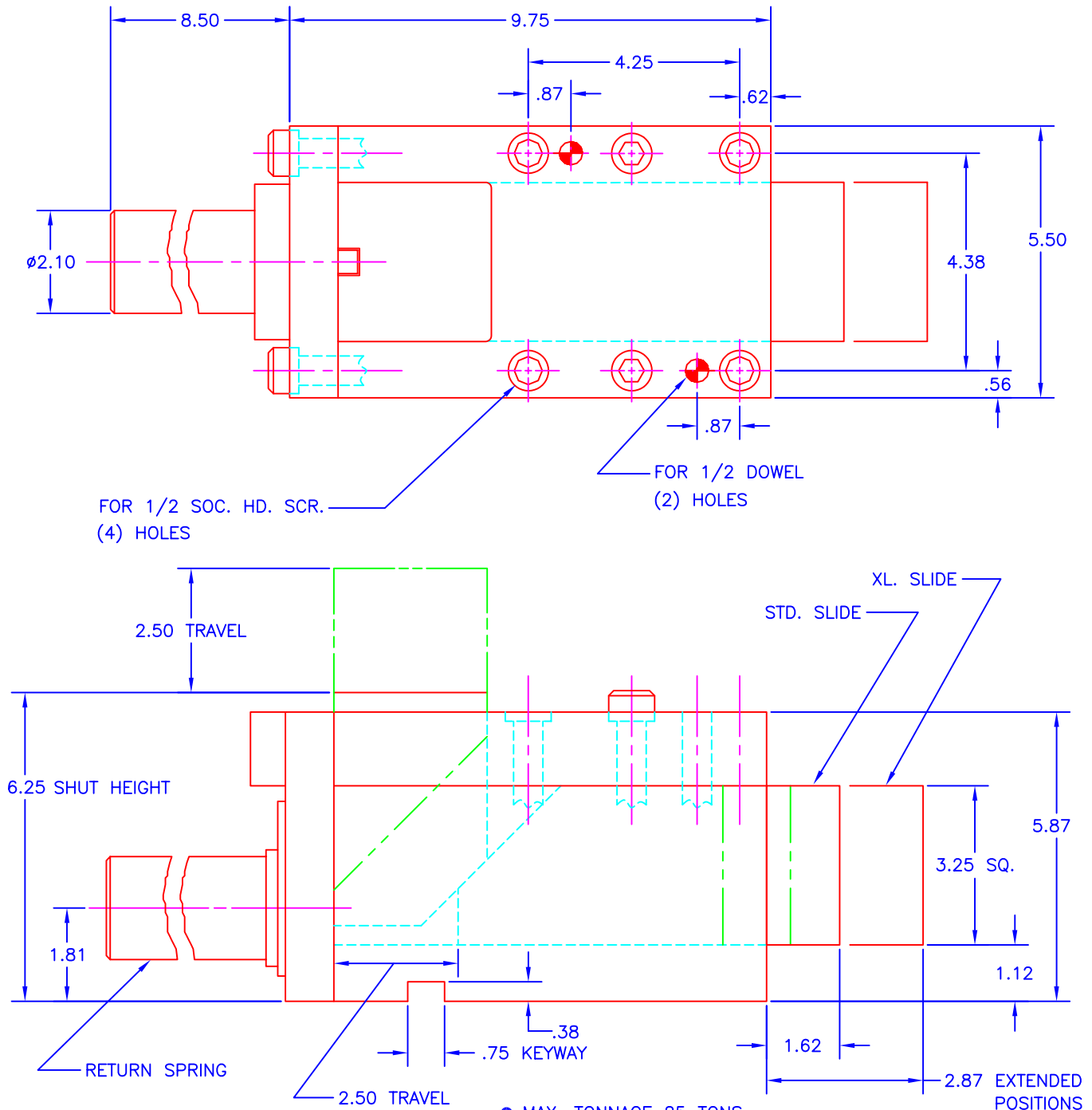
- USED ON METALS UP TO 5/32 THICK.
- 1-1/4 O.D. SPRING PROVIDED, IF MORE PRESSURE IS REQUIRED, 1-1/2 O.D. IS AVAILABLE.
- ADD THE SUFFIX (XP) TO THE END OF THE ORDERING NUMBER FOR 1-1/2 DIA. SPRING.

● MAX. TONNAGE 25 TONS.

SELF LUBE CAM SLIDE UNITS

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CAN BE MOUNTED TO THE FACE OF THESE UNITS. UNITS CAN BE MOUNTED
FLAT OR ANGLED FROM DIRECTION NEEDED TO PIERCE THE PART.

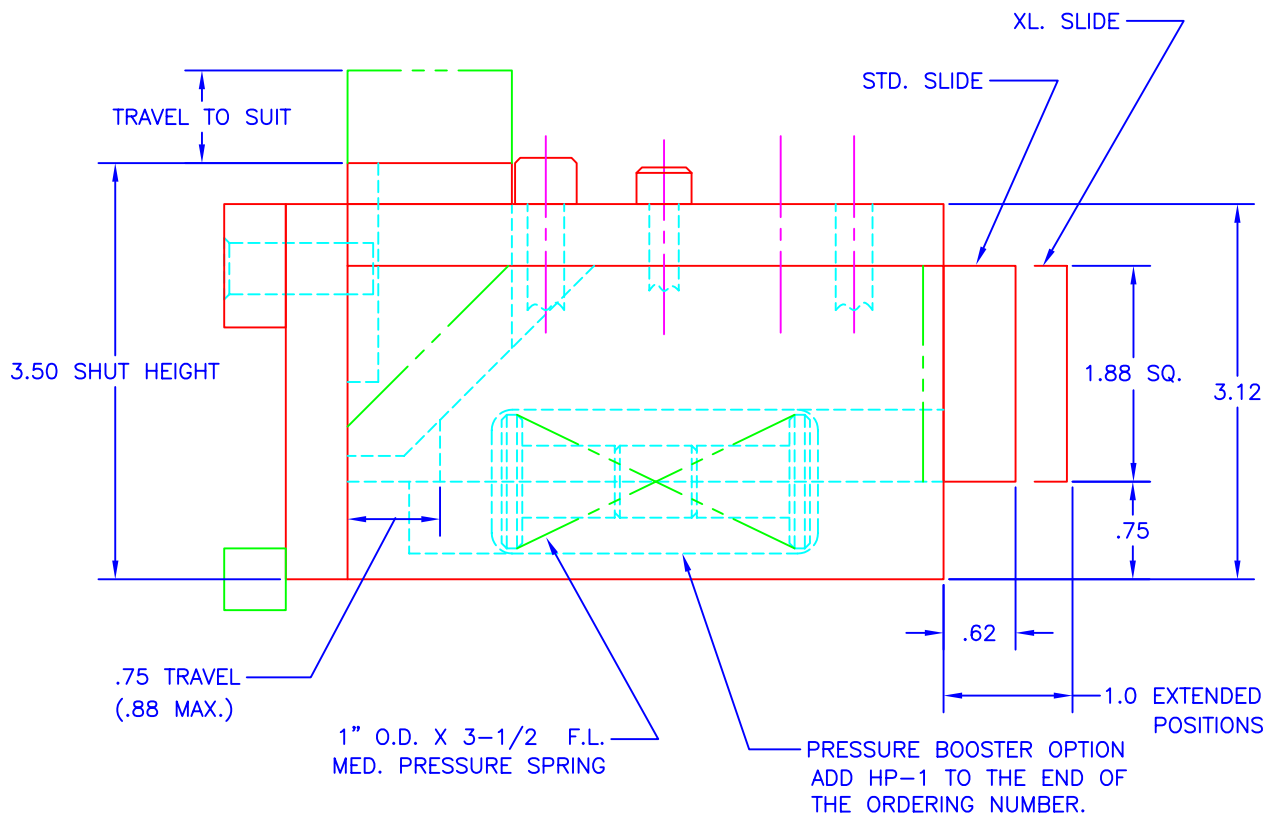
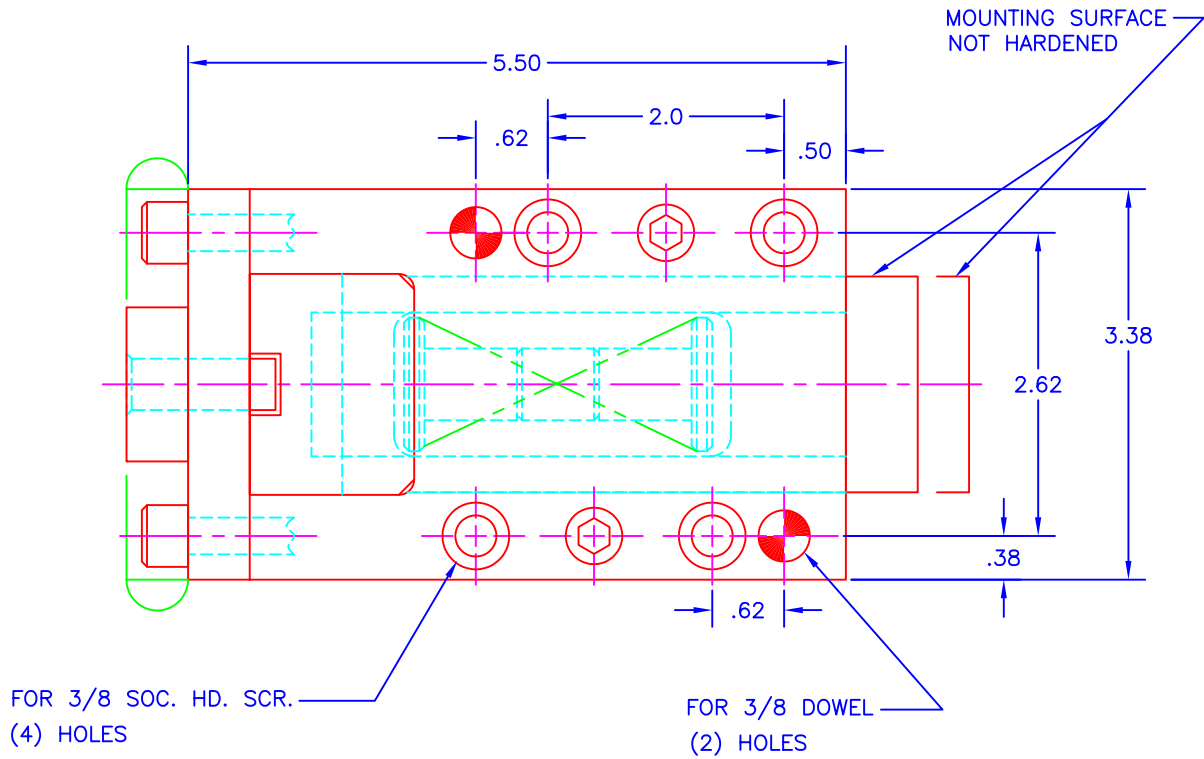


JOLICO NO.	REF. NO.	SLIDE
J-69804	DX7-12-0501	STD.
J-69804-XL	20-905-0420	XL

ORDERING EXAMPLE
J-69804-XL-XP

- MAX. TONNAGE 25 TONS.
- USED ON METALS UP TO 5/32 THICK.
- 1-1/2 O.D. SPRING PROVIDED, IF MORE PRESSURE IS REQUIRED, 2" O.D. IS AVAILABLE.
- ADD THE SUFFIX (XP) TO THE END OF THE ORDERING NUMBER FOR 2.0 DIA. SPRING.

SELF LUBE CAM SLIDE UNIT

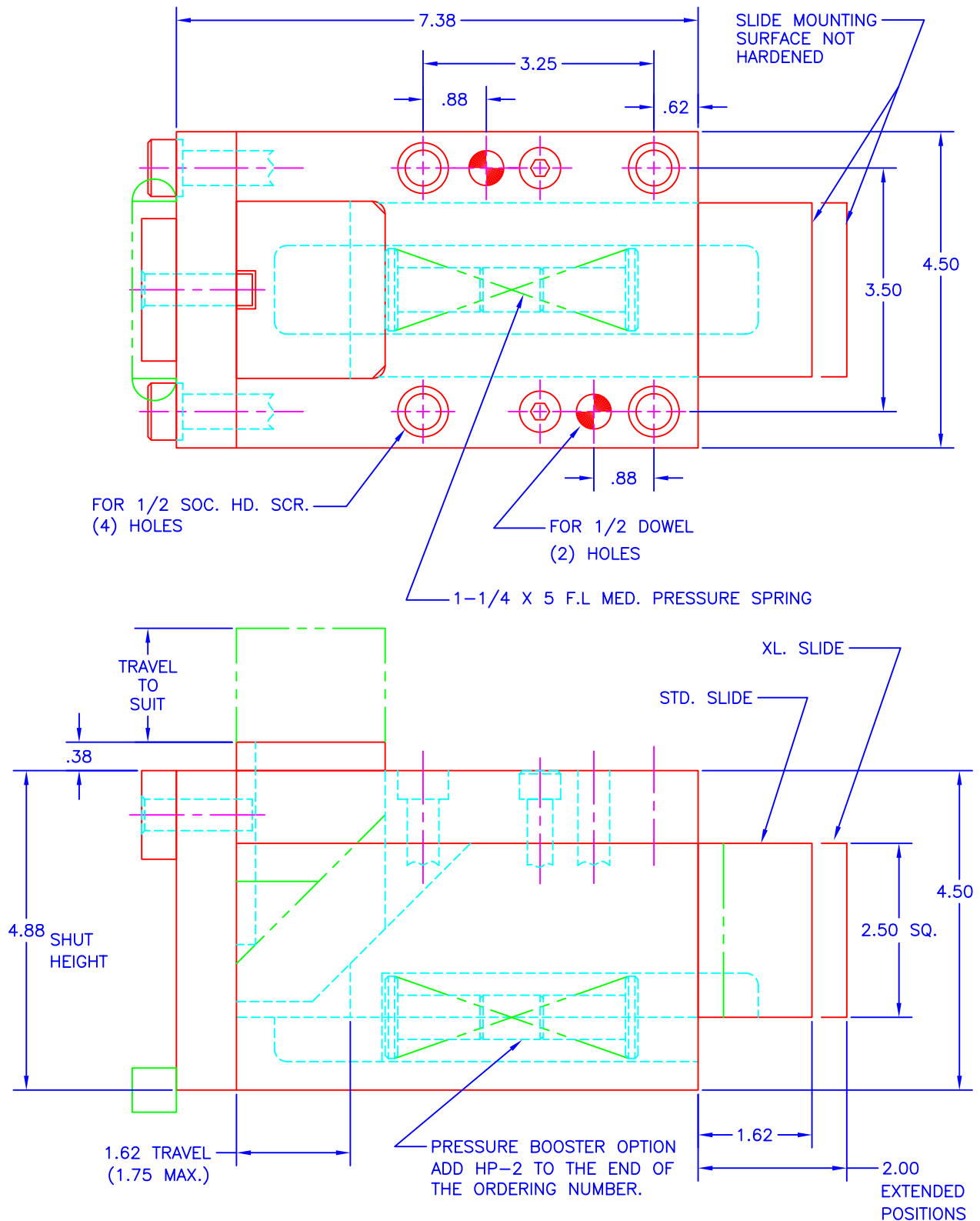


- ADD THE SUFFIX (XL) TO THE END OF THE ORDERING NUMBER FOR LONGER SLIDE.

JOLICO NO.
J-69801-A

SELF LUBE CAM SLIDE UNIT

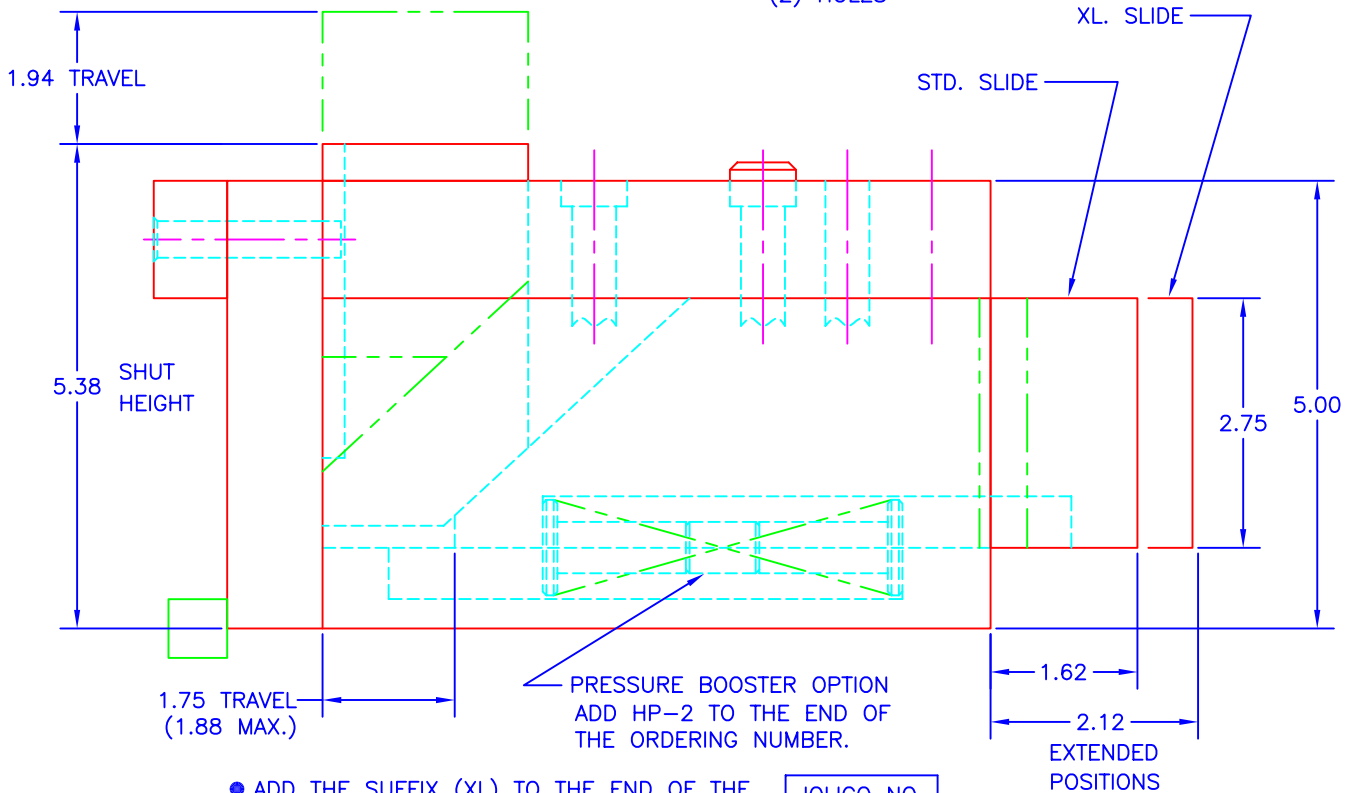
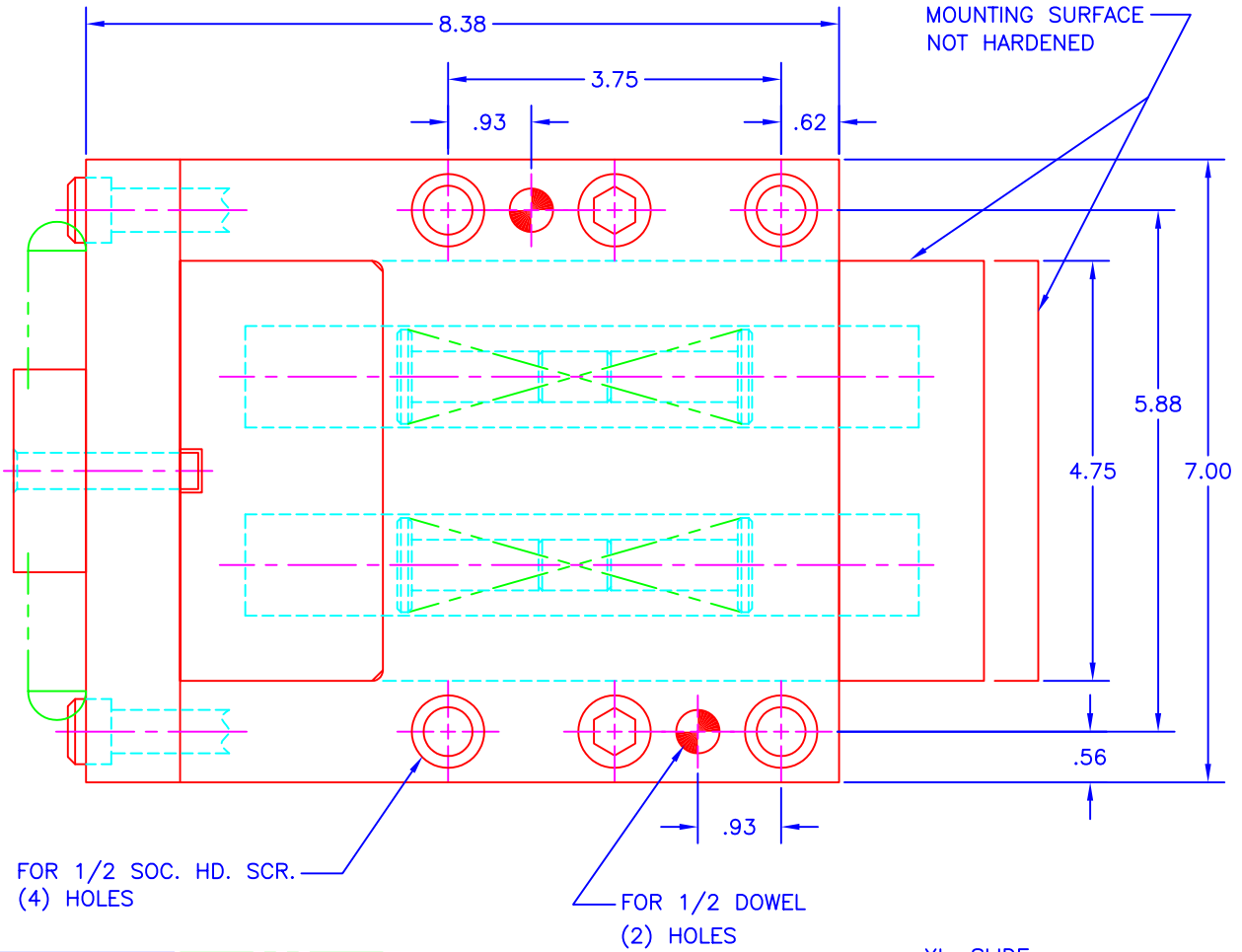
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- ADD THE SUFFIX (XL) TO THE END OF THE ORDERING NUMBER FOR LONGER SLIDE.

JOLICO NO.
J-69802-A

SELF LUBE CAM SLIDE UNIT

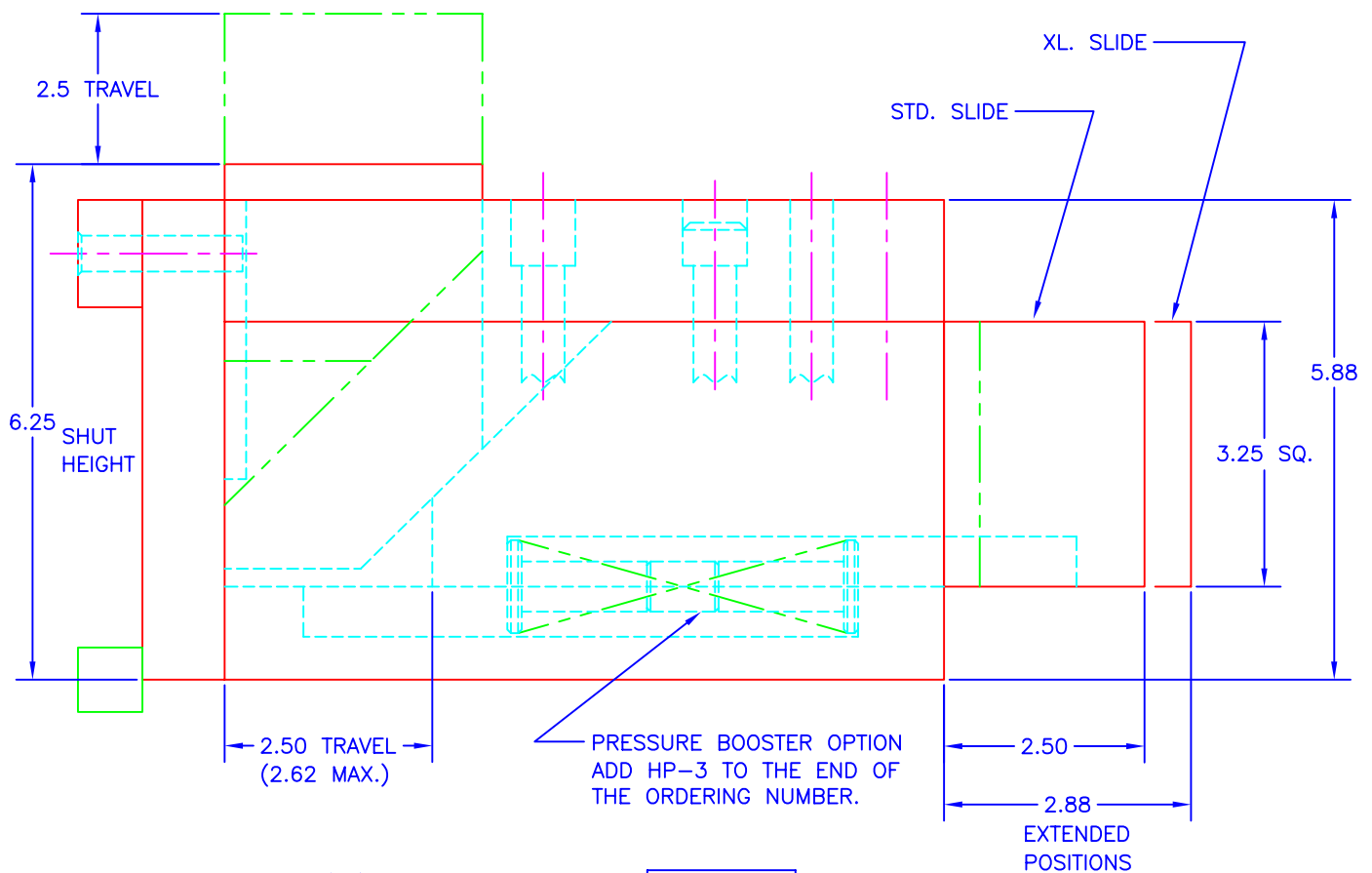
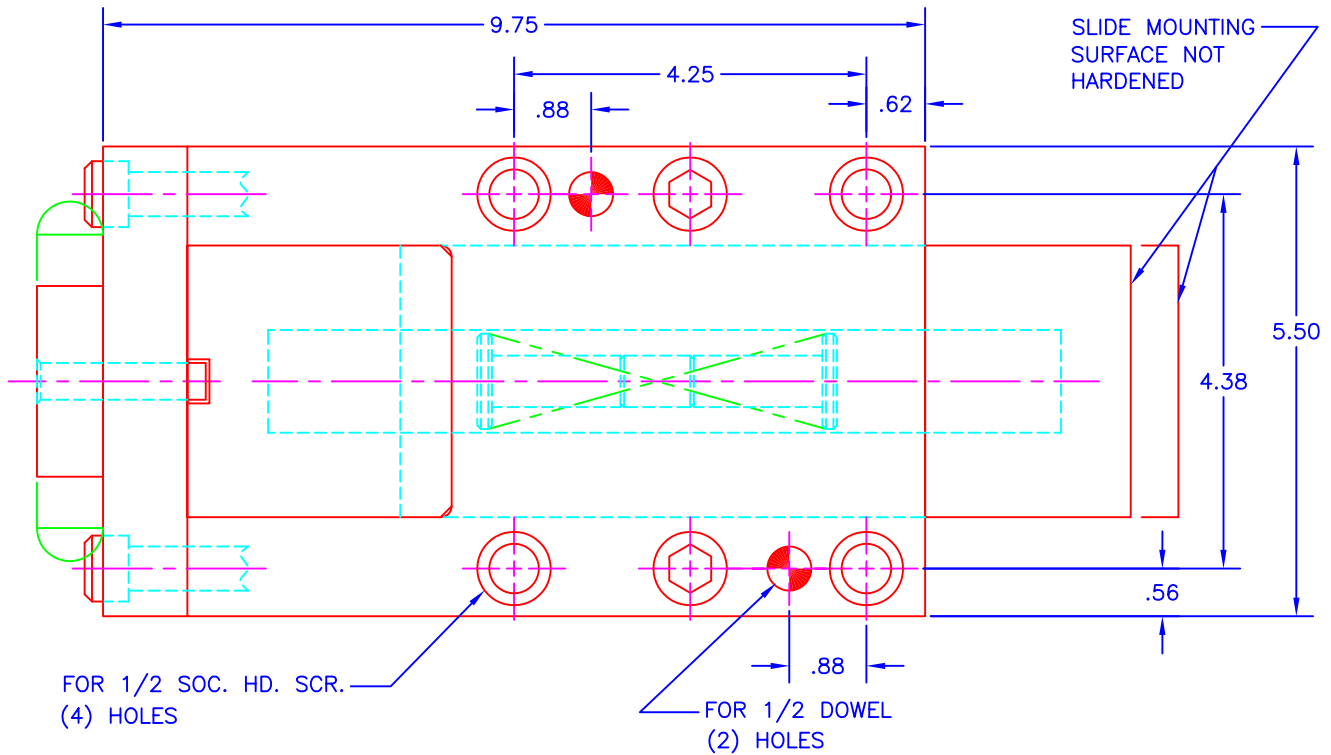


● ADD THE SUFFIX (XL) TO THE END OF THE
ORDERING NUMBER FOR LONGER SLIDE.

JOLICO NO.
J-69803-A

SELF LUBE CAM SLIDE UNIT

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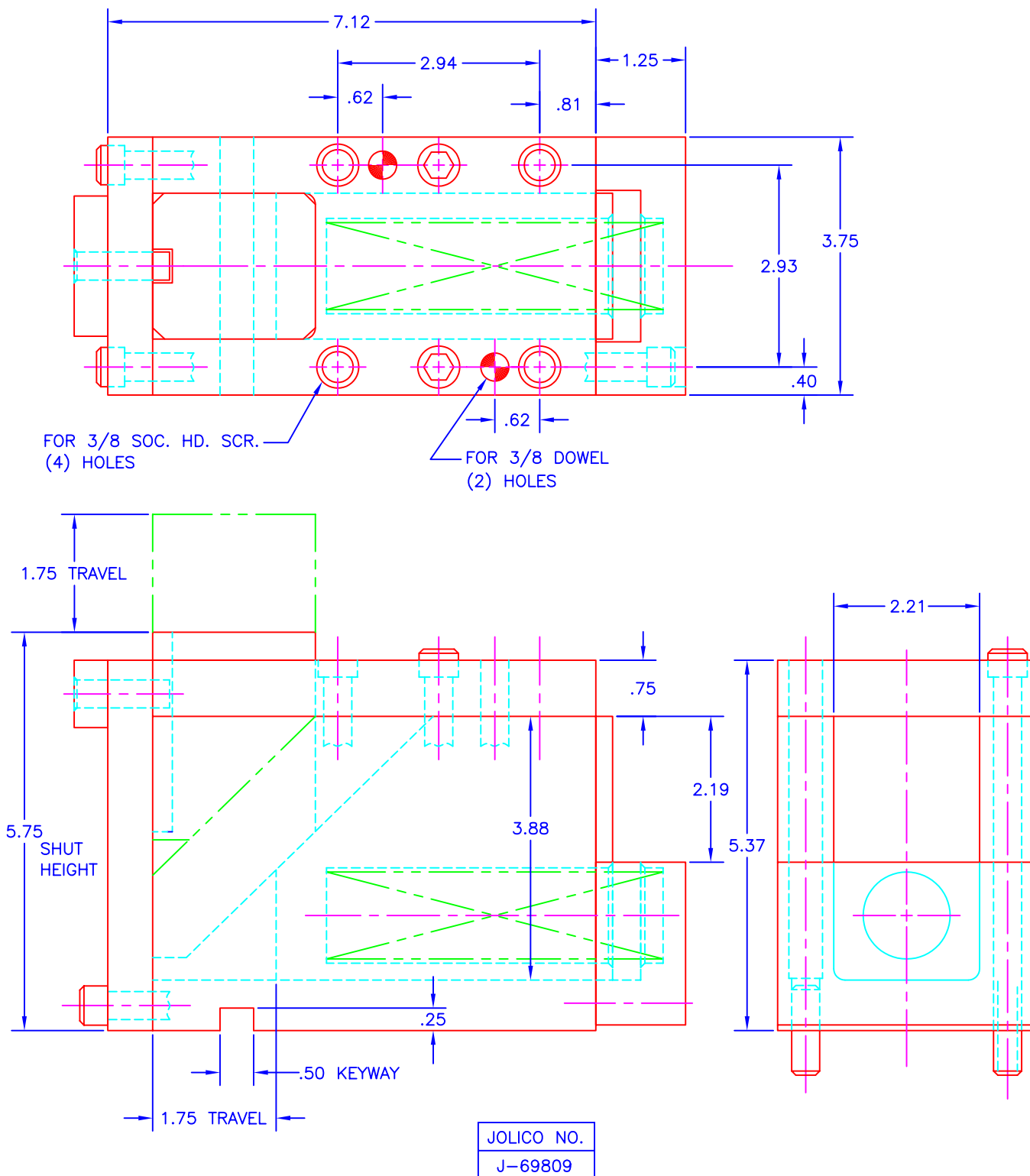
● ADD THE SUFFIX (XL) TO THE END OF THE ORDERING NUMBER FOR LONGER SLIDE.

JOLICO NO.
J-69804-A

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SELF LUBE CAM SLIDE UNIT

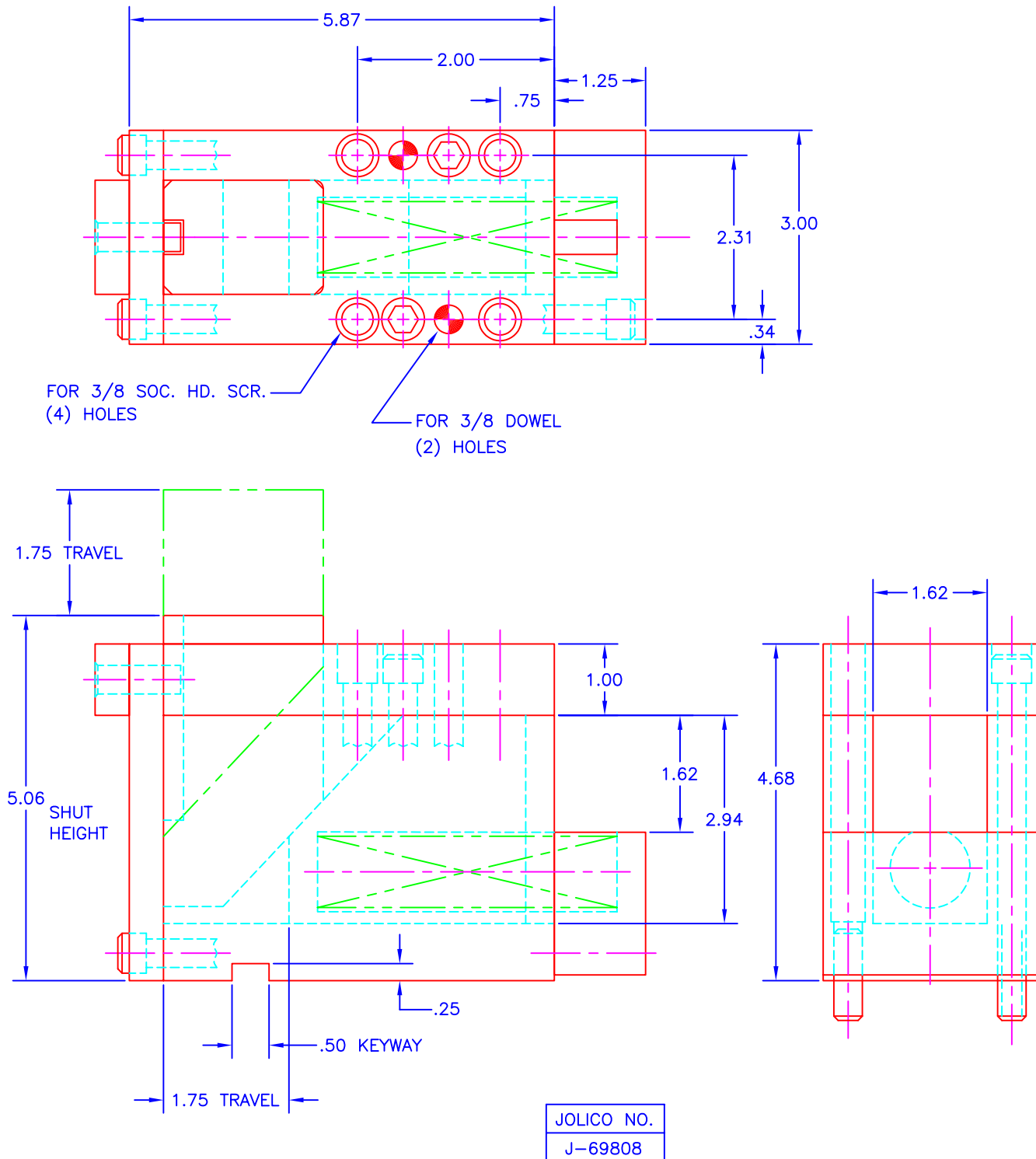
THESE ASSEMBLIES ARE USED FOR PIERCING DIES PUNCHES,
CAN BE MOUNTED TO THE FACE OF THESE UNITS. UNITS CAN BE MOUNTED
FLAT OR ANGLED FROM DIRECTION NEEDED TO PIERCE THE PART.

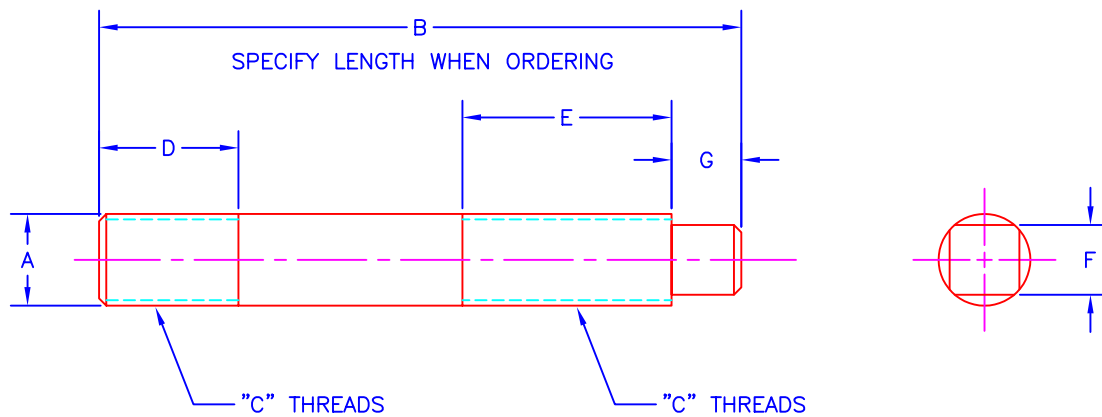


SELF LUBE CAM SLIDE UNIT

PRINTED COPY IS
UNCONTROLLED

THESE ASSEMBLIES ARE USED FOR PIERCING DIES PUNCHES,
CAN BE MOUNTED TO THE FACE OF THESE UNITS. UNITS CAN BE MOUNTED
FLAT OR ANGLED FROM DIRECTION NEEDED TO PIERCE THE PART.

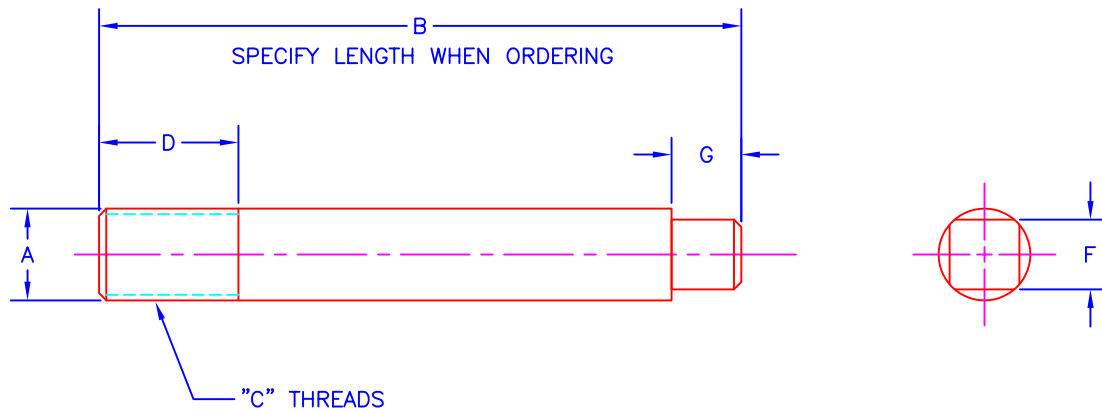




ORDERING EXAMPLE

J-20128-B14.50-D1.12-E3.00

JOLICO NO.	A	B	C	D	E	F	G	REFERENCE
J-20126	.50	12.00 TO 22.00 ORDER IN .50 INCREMENTS	1/2-13	.75 OR 1.25	1.50 OR 2.00	.32	.50	CHEVY REQ.
J-20127	.62		5/8-11	.93 OR 1.50	1.75 OR 2.50	.38	.50	
J-20128	.75		3/4-10	1.12 OR 1.75	2.00 OR 3.00	.50	.62	
J-20129	1.00		1" - 8	1.50 OR 2.25	2.50 OR 4.00	.75	.75	

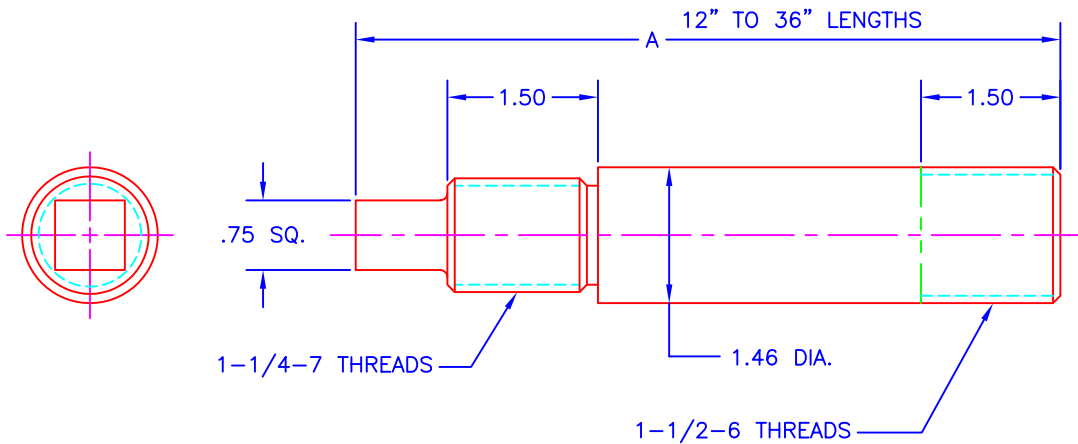


ORDERING EXAMPLE

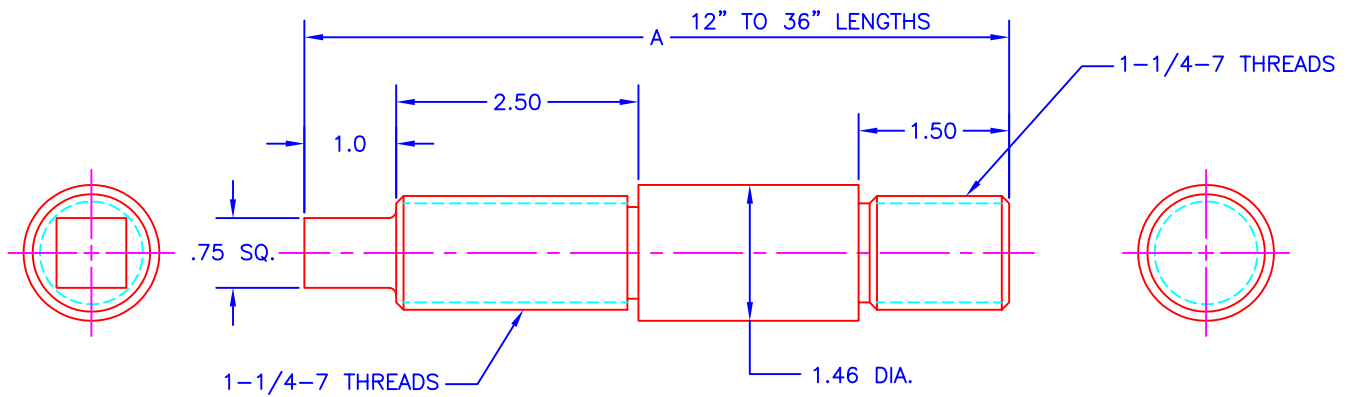
J-20132-B5.50-D1.12

JOLICO NO.	A	B	C	D	F	G	REFERENCE
J-20130	.50	4.00 TO 14.00 ORDER IN .50 INCREMENTS	1/2-13	.75 OR 1.25	.32	.50	CHEVY REQ.
J-20131	.62		5/8-11	.93 OR 1.50	.38	.50	
J-20132	.75		3/4-10	1.12 OR 1.75	.50	.62	
J-20133	1.00		1" - 8	1.50 OR 2.25	.75	.75	

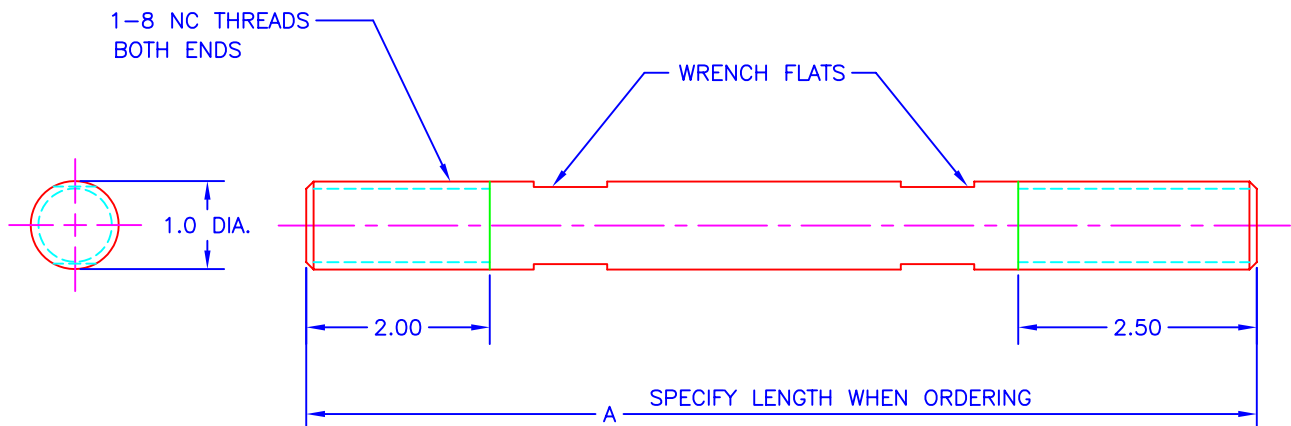
SAFETY STUDS



JOLICO NO.	REFERENCE
J-20134	CHEVY



JOLICO NO.	REF. NO.
J-20138	4S-1695

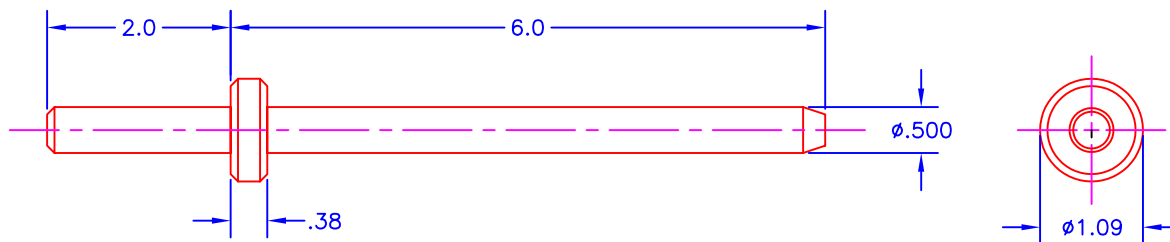


ORDERING EXAMPLE:
J-20145 - A14.25

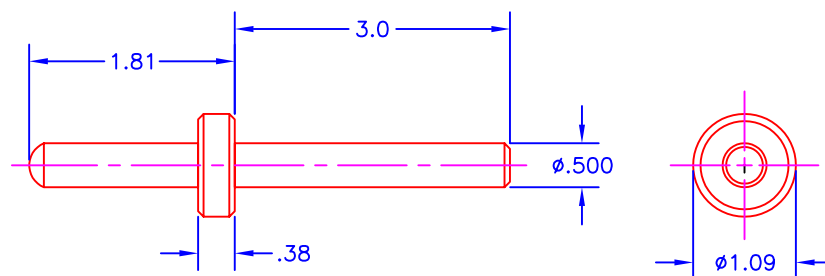
STUD LENGTH

JOLICO NO.	REF. NO.
J-20145	DX7-22-1305

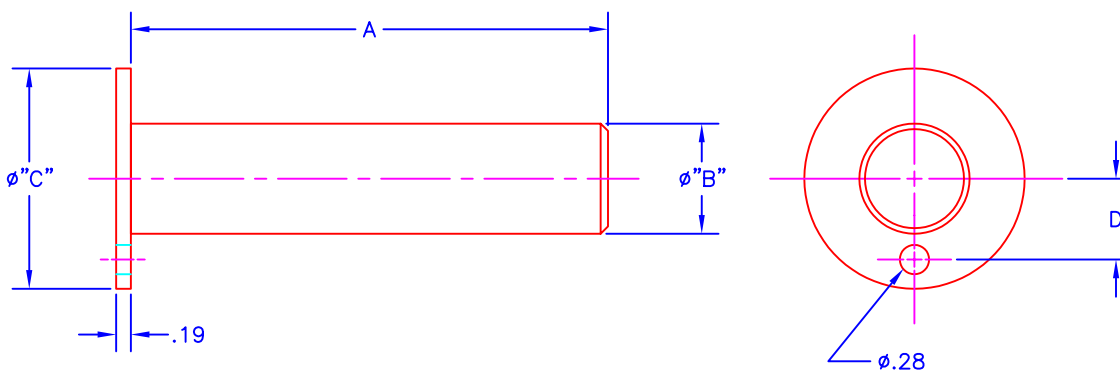
PLUNGER PINS AND RETAINER PINS



JOLICO NO.	REF. NO.
J-86865	M-1165



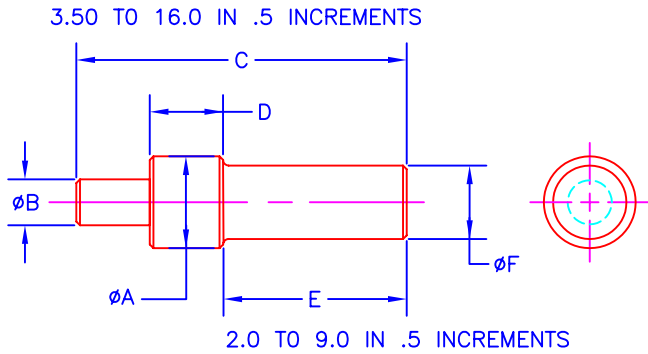
JOLICO NO.	REF. NO.
J-86866	M-1165-A



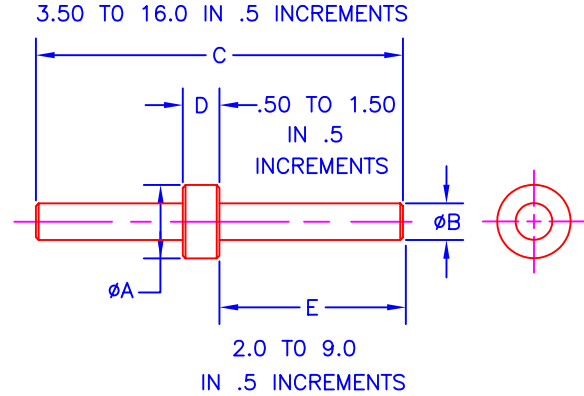
JOLICO NO.	REF. NO.	A	B	C	D
J-61940	62-M-1078-4	4.44	1.25	2.38	.91
J-61941	62-M-1078-5	5.44	1.25	2.38	.91
J-61942	62-M-1078-6	5.44	2.00	2.88	1.22

PLUNGERS

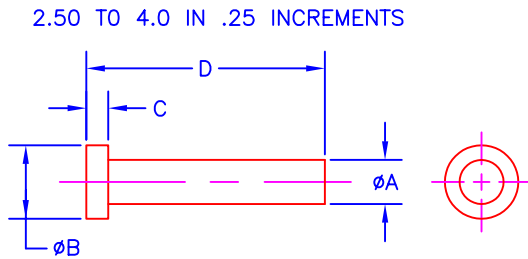
PRINTED COPY IS
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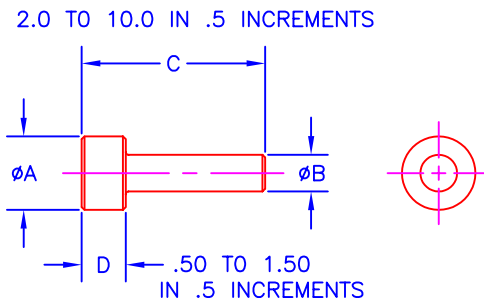
JOLICO NO.	A	B	C	D	E	F
J-86425	.75	.375	TO SUIT			.50
J-86426	1.00	.500				.75
J-86427	1.25	.625				1.00
J-86428	1.50	.750				1.25
J-86429	2.00	1.00				1.50



JOLICO NO.	A	B	C	D	E
J-86408	.75	.375	TO SUIT		
J-86409	1.00	.500			
J-86410	1.25	.625			
J-86411	1.50	.750			
J-86412	2.00	1.00			

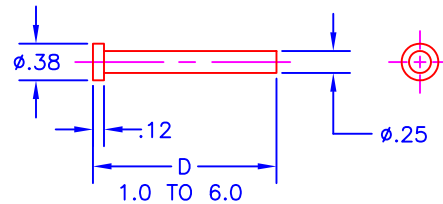


JOLICO NO.	A	B	C	D
J-86406	.50	.75	.25	TO SUIT
J-86407	.75	1.00	.31	



JOLICO NO.	A	B	C	D
J-86413	.75	.38	TO SUIT	
J-86414	1.00	.50		
J-86415	1.25	.62		
J-86416	1.50	.75		
J-86417	2.00	1.00		

JOLICO NO.	A	B	C	D
J-86419	.250	.50	.25 AND .375	1.0 TO 8.0
J-86420	.375	.50	.25 AND .375	1.0 TO 8.0
J-86421	.500	.75	.375 AND .50	2.0 TO 8.0
J-86422	.625	.75	.375 AND .50	2.0 TO 8.0
J-86423	.625	1.00	.50, .75 AND 1.00	2.0 TO 10.0
J-86424	.750	1.00	.50, .75 AND 1.00	2.0 TO 10.0

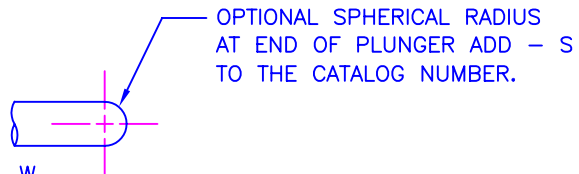


JOLICO NO.	D
J-86418	TO SUIT

MATERIAL AVAILABLE IN EITHER COLD ROLL STEEL
OR WATER HARDENING TOOL STEEL.
ADD - W TO CATALOG NUMBER IF WATER
HARDENING TOOL STEEL IS REQUIRED.

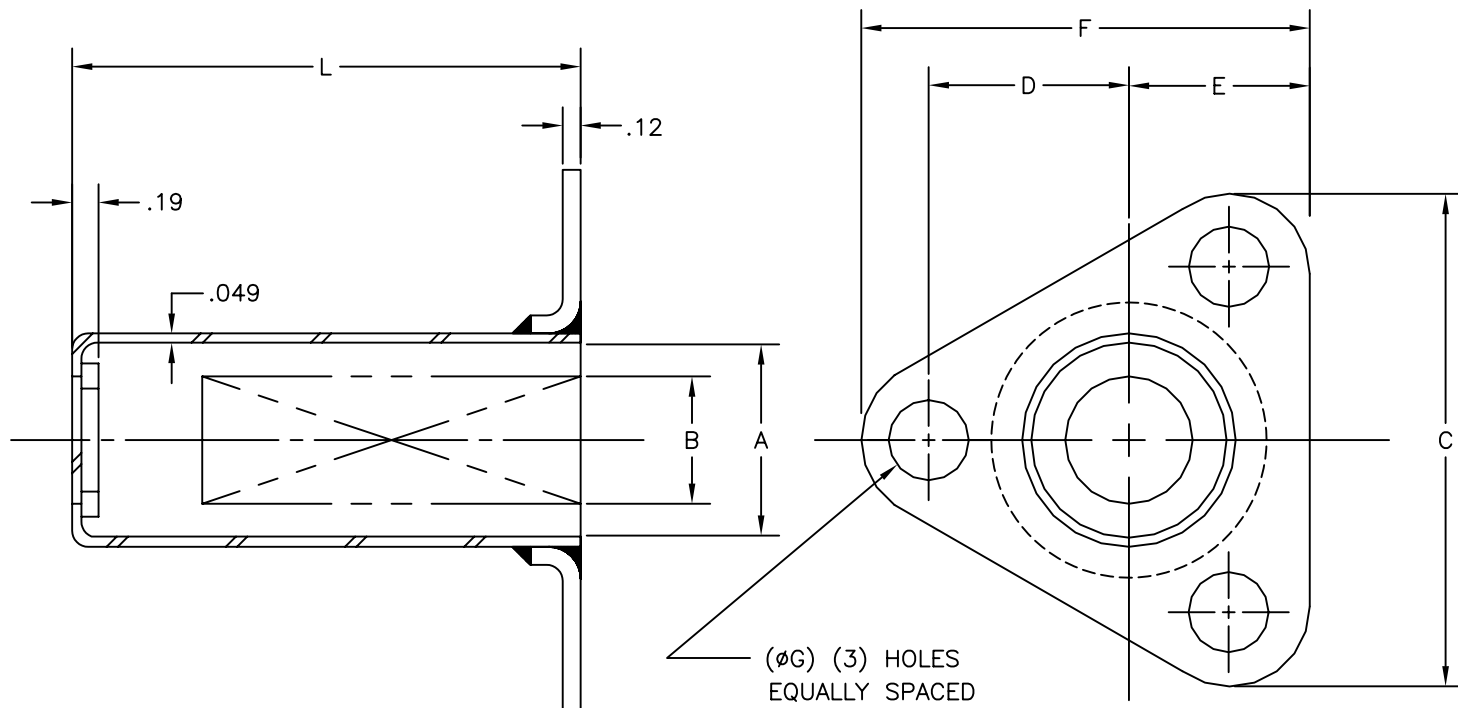
ORDERING EXAMPLE

J-86426 A=1.0 B=.50 C=3.50 D=.68 E=2.0 F=.75-S-W



SPRING CANS AND GUARDS

SPRING CANS AND GUARDS ARE USED FOR CONTAINING SPRINGS IN DIES, TOOLS, MACHINERY, ECT. AND SAFETY PRECAUTIONS IN CASE OF SPRING BREAKAGE.



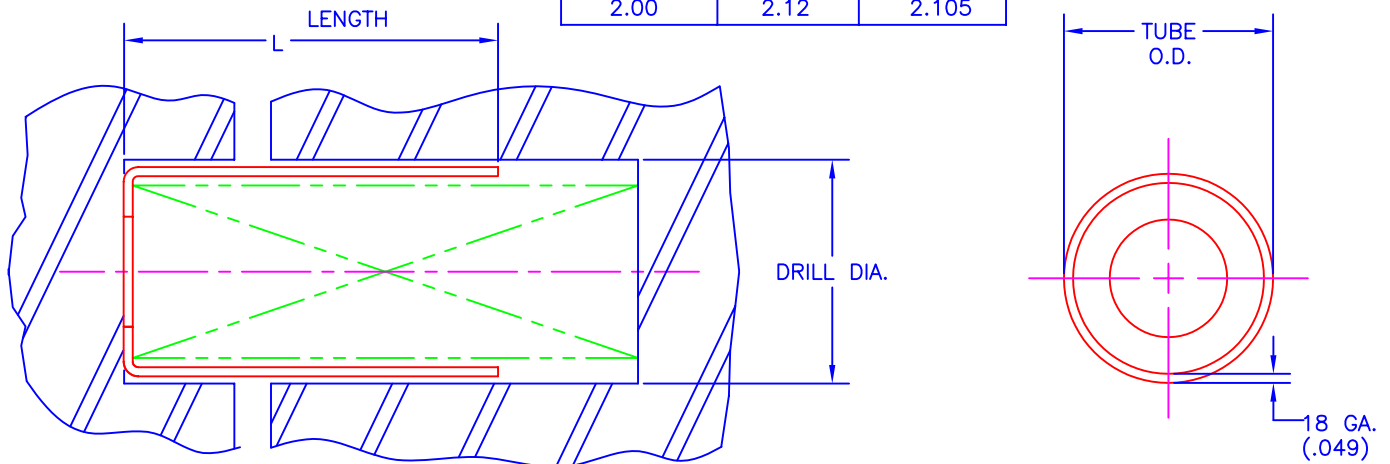
JOLICO NO.	L	A	B	C	D	E	F	G	H
J-10501	3.00	1.25	1.00	2.59	1.06	.91	2.34	.34	.38
J-10502	4.00								
J-10503	5.00								
J-10504	6.00								
J-10505	7.00	1.50	1.25	2.94	1.25	1.00	2.62	.34	.38
J-10506	3.00								
J-10507	4.00								
J-10508	5.00								
J-10509	6.00	1.75	1.50	3.34	1.50	1.12	3.00	.34	.38
J-10510	7.00								
J-10511	8.00								
J-10512	3.00								
J-10513	4.00	1.75	1.50	3.34	1.50	1.12	3.00	.34	.38
J-10514	5.00								
J-10515	6.00								
J-10601	7.00								
J-10602	8.00	2.00	1.75	3.69	1.62	1.25	3.31	.44	.44
J-10603	10.00								
J-10604	4.00								
J-10605	5.00								
J-10606	6.00	2.00	1.75	3.69	1.62	1.25	3.31	.44	.44
J-10607	7.00								
J-10608	8.00								
J-10609	10.00								
J-10610	12.00								

SPRING CANS AND GUARDS

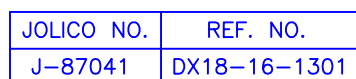
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SPRING CANS AND GUARDS ARE USED FOR CONTAINING SPRINGS IN DIES, TOOLS, MACHINERY, ETC. AND SAFETY PRECAUTIONS IN CASE OF SPRING BREAKAGE.

SPRING O.D.	DRILL DIA.	TUBE O.D.
0.75	0.88	0.855
1.00	1.12	1.105
1.25	1.38	1.355
1.50	1.62	1.605
2.00	2.12	2.105

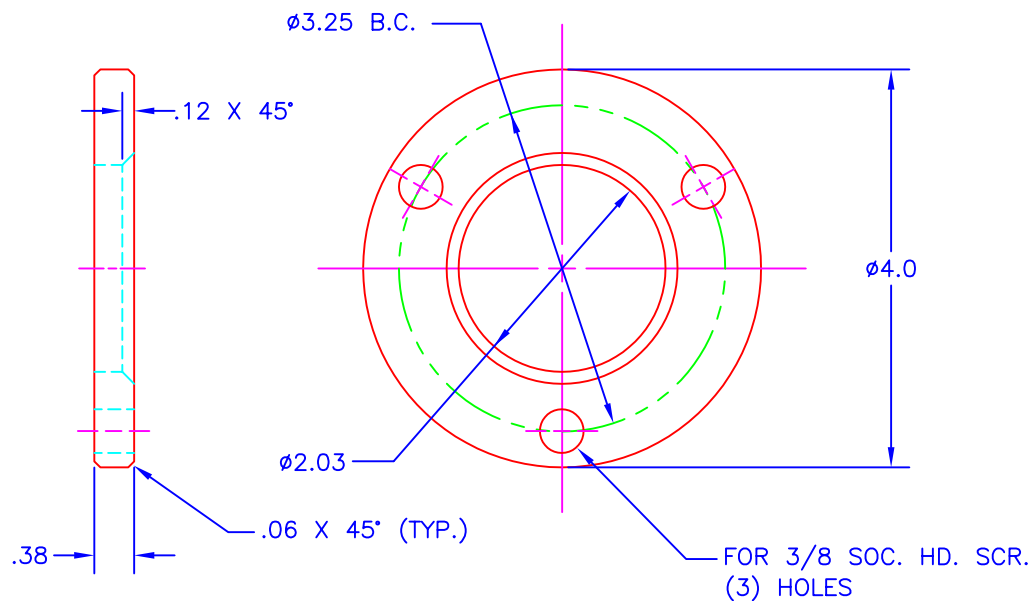


3/4" O.D. SPRING		1.00" O.D. SPRING		1-1/4" O.D. SPRING		1-1/2" O.D. SPRING		2.00" O.D. SPRING	
JOLICO NO.	L	JOLICO NO.	L	JOLICO NO.	L	JOLICO NO.	L	JOLICO NO.	L
J-10001	1.00	J-10101	1.00	J-10201	1.00	J-10301	1.00	J-10401	1.00
J-10002	1.25	J-10102	1.25	J-10202	1.25	J-10302	1.25	J-10402	1.25
J-10003	1.50	J-10103	1.50	J-10203	1.50	J-10303	1.50	J-10403	1.50
J-10004	1.75	J-10104	1.75	J-10204	1.75	J-10304	1.75	J-10404	1.75
J-10005	2.00	J-10105	2.00	J-10205	2.00	J-10305	2.00	J-10405	2.00
J-10006	2.25	J-10106	2.25	J-10206	2.25	J-10306	2.25	J-10406	2.25
J-10007	2.50	J-10107	2.50	J-10207	2.50	J-10307	2.50	J-10407	2.50
J-10008	2.75	J-10108	2.75	J-10208	2.75	J-10308	2.75	J-10408	2.75
J-10009	3.00	J-10109	3.00	J-10209	3.00	J-10309	3.00	J-10409	3.00
J-10010	3.25	J-10110	3.25	J-10210	3.25	J-10310	3.25	J-10410	3.25
J-10011	3.50	J-10111	3.50	J-10211	3.50	J-10311	3.50	J-10411	3.50
J-10012	3.75	J-10112	3.75	J-10212	3.75	J-10312	3.75	J-10412	3.75
J-10013	4.00	J-10113	4.00	J-10213	4.00	J-10313	4.00	J-10413	4.00
J-10014	4.25	J-10114	4.25	J-10214	4.25	J-10314	4.25	J-10414	4.25
J-10015	4.50	J-10115	4.50	J-10215	4.50	J-10315	4.50	J-10415	4.50
J-10016	4.75	J-10116	4.75	J-10216	4.75	J-10316	4.75	J-10416	4.75
J-10017	5.00	J-10117	5.00	J-10217	5.00	J-10317	5.00	J-10417	5.00
J-10018	5.50	J-10118	5.50	J-10218	5.50	J-10318	5.50	J-10418	5.50
J-10019	6.00	J-10119	6.00	J-10219	6.00	J-10319	6.00	J-10419	6.00
J-10020	6.50	J-10120	6.50	J-10220	6.50	J-10320	6.50	J-10420	6.50
J-10021	7.00	J-10121	7.00	J-10221	7.00	J-10321	7.00	J-10421	7.00
J-10022	8.00	J-10122	8.00	J-10222	8.00	J-10322	8.00	J-10422	8.00
J-10023	9.00	J-10123	9.00	J-10223	9.00	J-10323	9.00	J-10423	9.00
J-10024	10.00	J-10124	10.00	J-10224	10.00	J-10324	10.00	J-10424	10.00

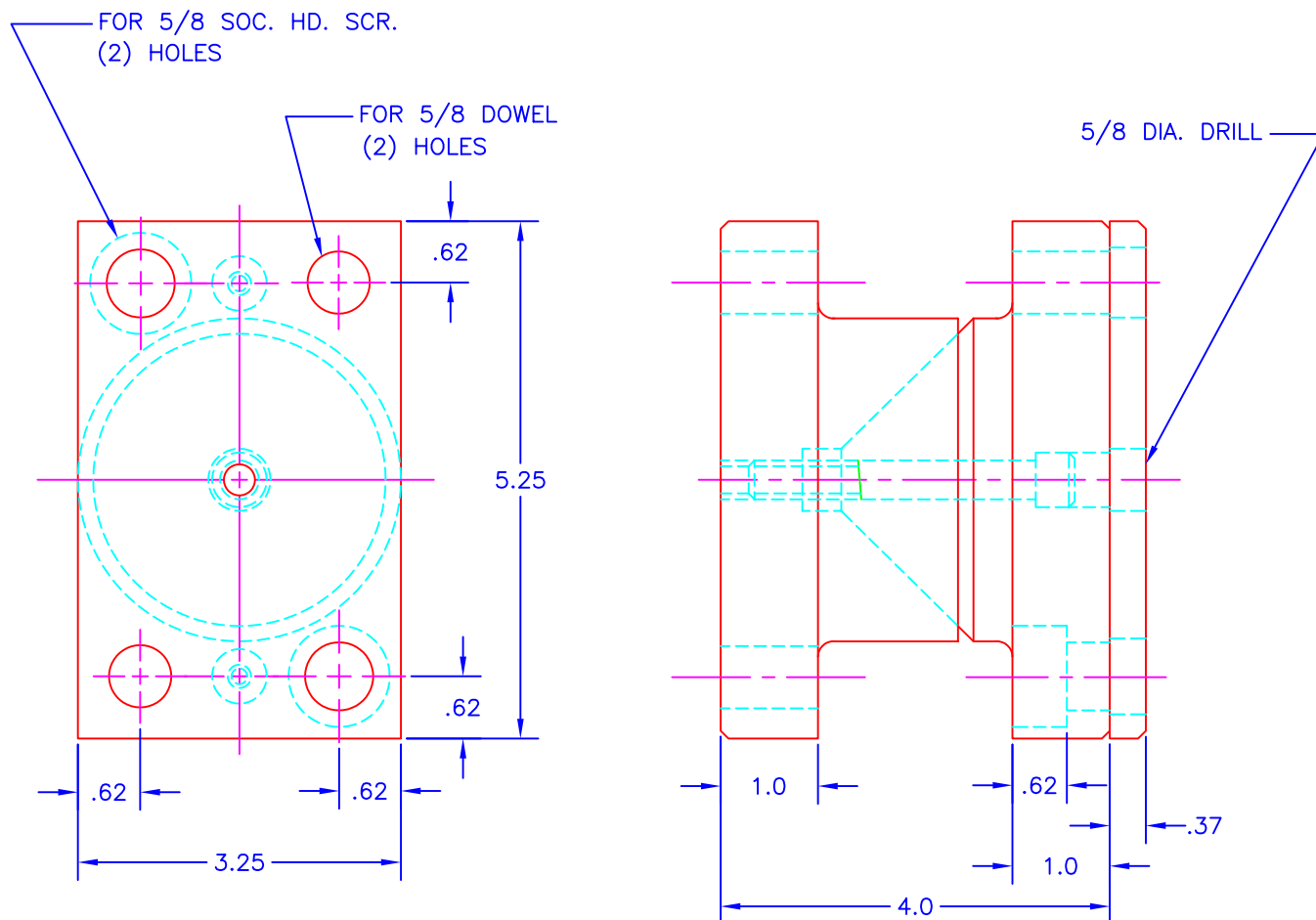


JOLICO NO.	REF. NO.
J-87042	DX18-16-1401

GUIDE POST RETAINER



JOLICO NO.	REF. NO.
J-23201	DX12-14-0802

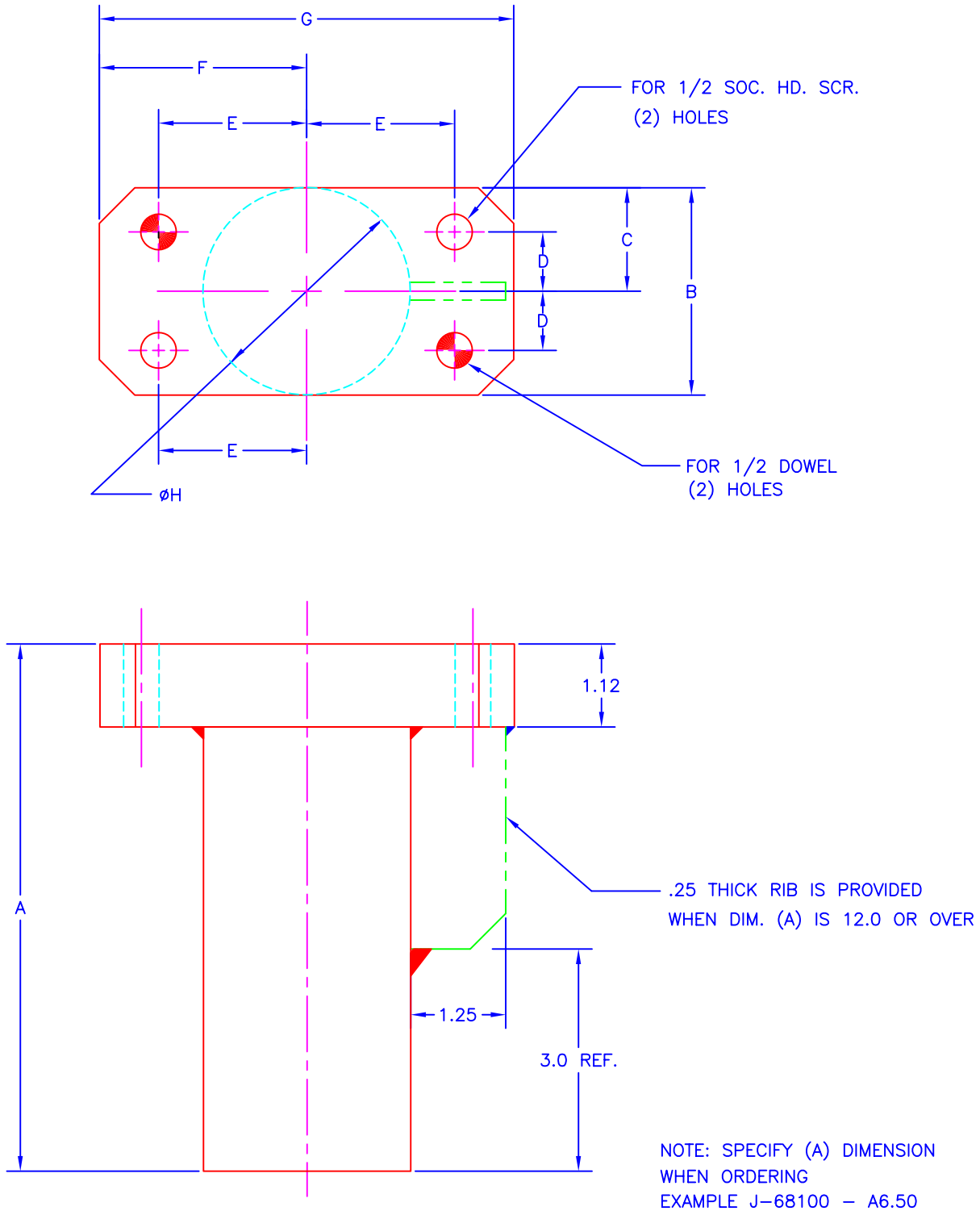


CONE LOCATOR

JOLICO NO.	REF. NO.
J-23200	DX7-16-0601

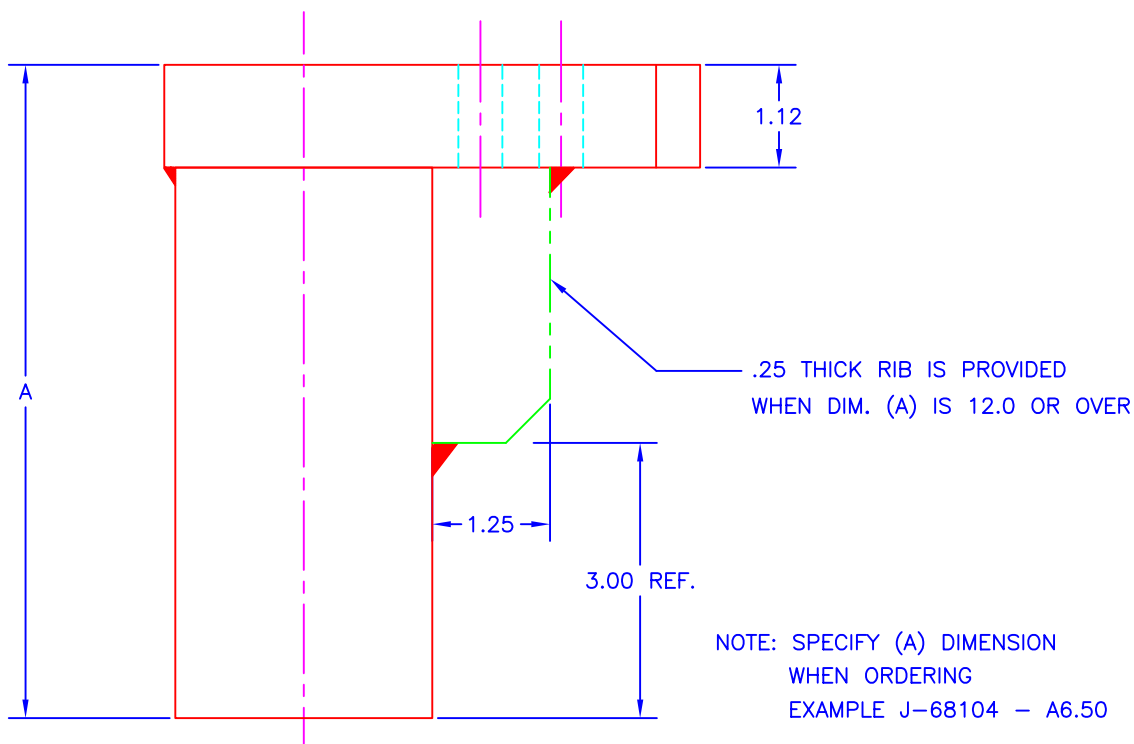
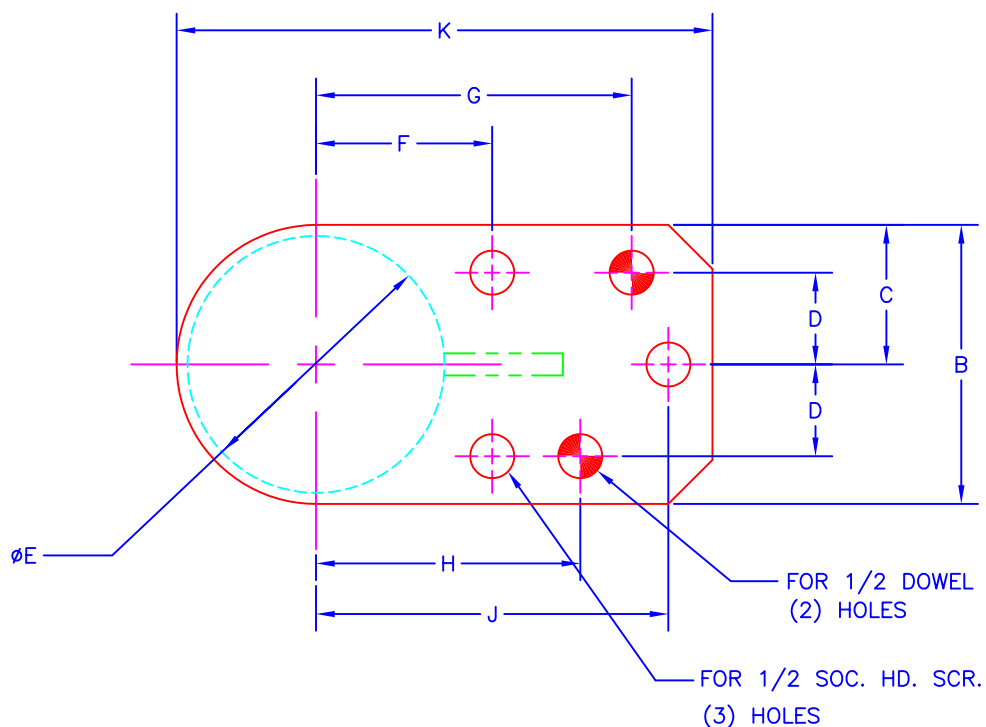
PUNCH RETAINER RISER

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JOLICO NO.	REF. NO.	B	C	D	E	F	G	H
J-68100	DX4-20-0601	2.50	1.25	.75	1.75	2.50	5.00	$\phi 2.38$
J-68101	DX4-20-0602	2.75	1.38	.81	2.00	2.75	5.50	$\phi 2.75$
J-68102	DX4-20-0603	3.00	1.50	.88	2.12	2.88	5.75	$\phi 3.00$

PUNCH RETAINER RISER



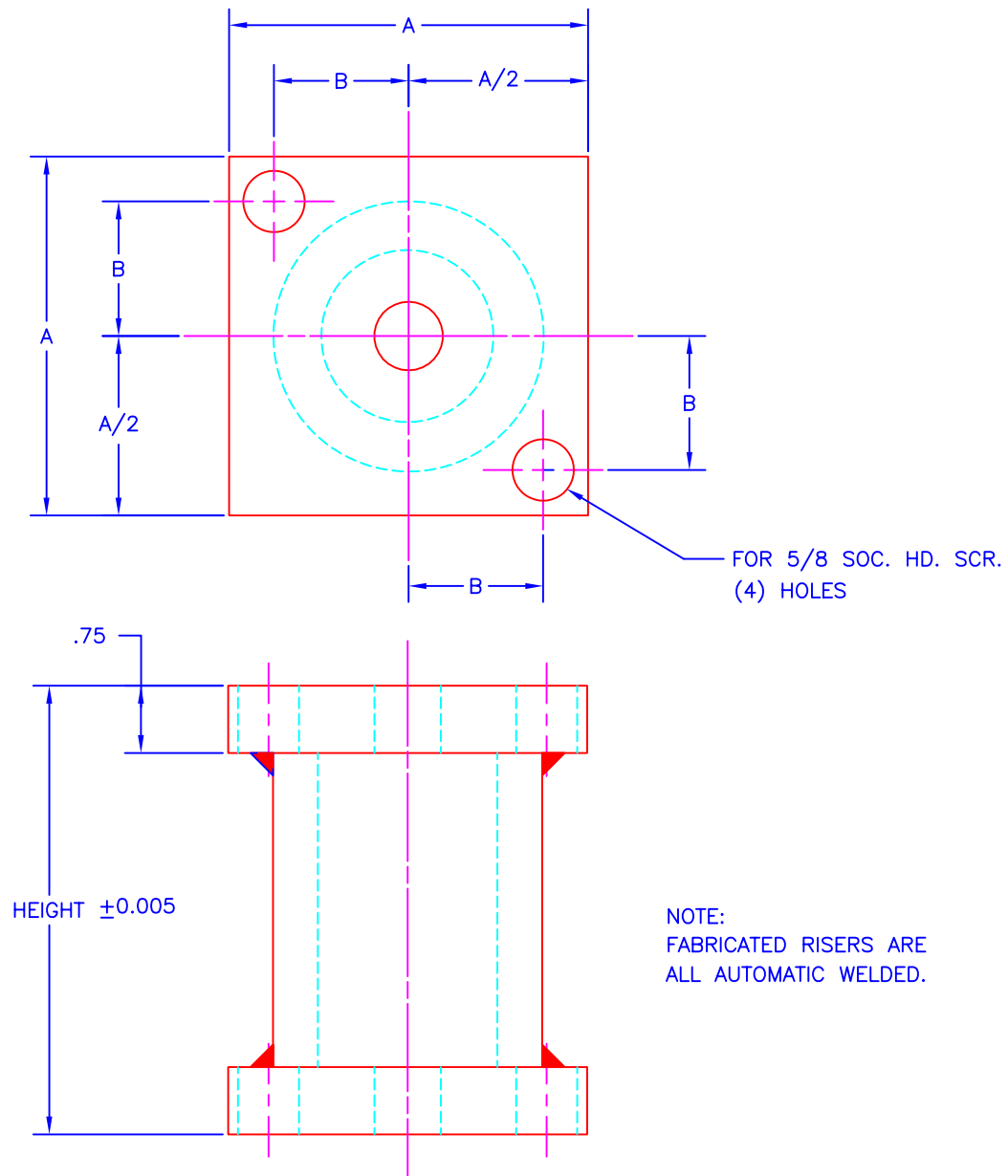
JOLICO NO.	REF. NO.	B	C	D	E	F	G	H	J	K
J-68103	DX4-20-0701	2.50	1.25	.75	Ø2.38	1.75	3.25	2.62	3.50	5.25
J-68104	DX4-20-0702	3.00	1.50	1.00	Ø2.75	1.88	3.50	2.75	3.75	5.75
J-68105	DX4-20-0703	3.25	1.62	1.12	Ø3.00	2.00	3.62	2.88	3.88	6.00

FABRICATED RISERS

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UNCONTROLLED

THESE RISERS ARE USED IN AREAS THAT NEED SUPPORT,
BUT ARE TOO SMALL TO ALLOW USAGE OF A STANDARD CAST RISER.

IT IS NOT RECOMMENDED THAT THESE
RISERS BE USED WITH STANDARD CAST RISERS.



JOLICO NO.	REF. NO.	A	B	TUBING DIA.
J-31521	DX15-20-0101	4.0	1.50	2.0 I.D. X 3.0 O.D.
J-31522	DX15-20-0102	6.0	2.38	4.0 I.D. X 5.0 O.D.
J-31523	DX15-20-0103	9.0	3.75	7.0 I.D. X 8.0 O.D.

ORDERING EXAMPLE

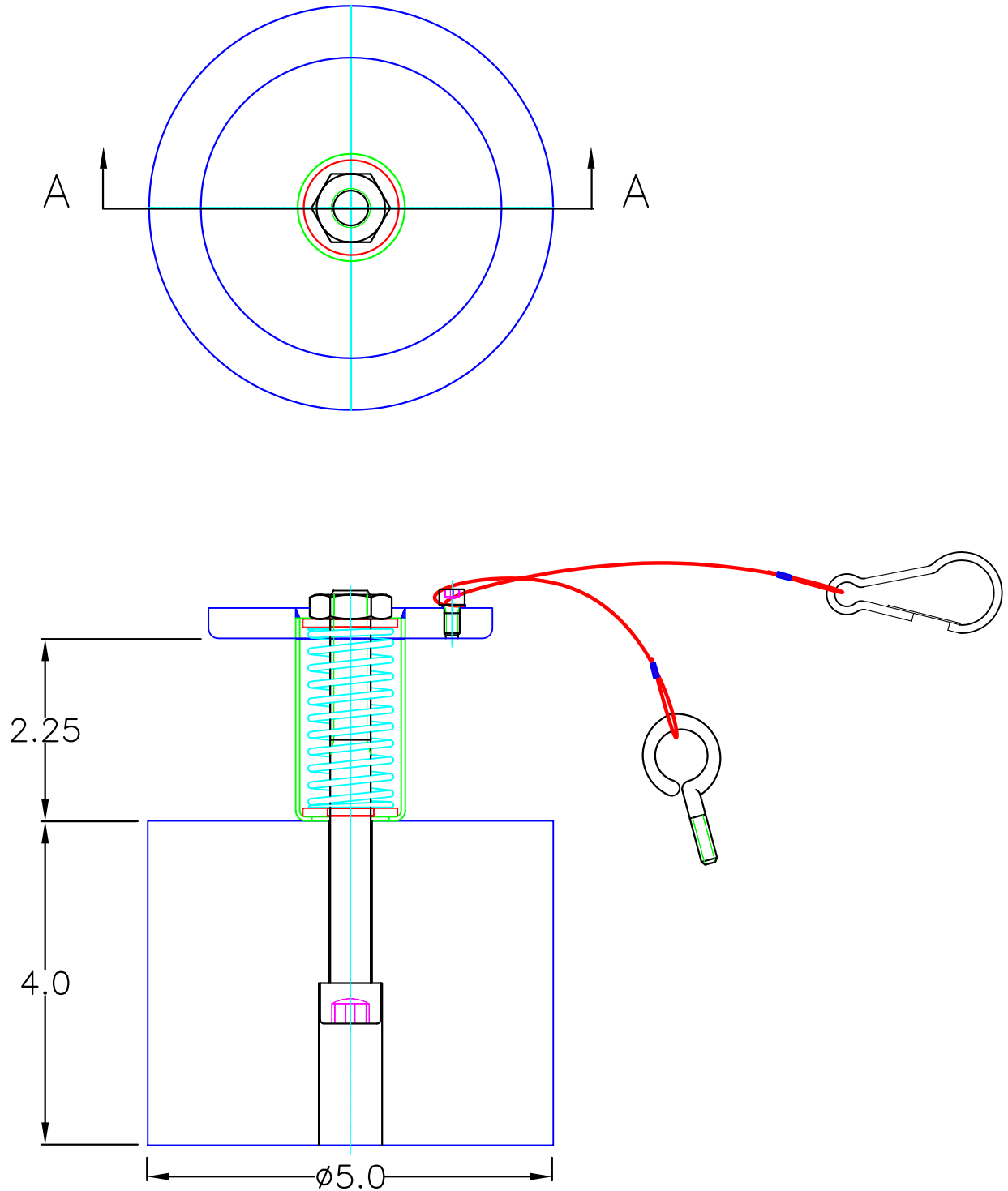
J-31522 - H5.0

— RISER HEIGHT

DIE STORAGE BLOCK

PRINTED COPY IS
UNCONTROLLED

THESE ASSEMBLIES ARE USED FOR DIE STORAGE.



SECTION A-A

ORDERING EXAMPLE
J-20155

JOLICO NO.	REF. NO.
J-20155	59-700-0050

IDENTIFICATION AND DATA PLATES

PRINTED COPY IS
UNCONTROLLED

6.75

.25 TYP.

.25 TYP.

2.25

PART NAME _____

PART NO. _____

OPER. NO. _____ OPER. NAME _____

DIE L.R. _____ PUNCH L.R. _____ SHUT _____

DIE F.B. _____ AREA F.B. _____ HEIGHT _____

3/16 DIA. (4) HOLES

PLATE THICKNESS .09

JOLICO NO.
J-13001

6.5

.25 TYP.

.25 TYP.

3.75

NITROGEN SYSTEM INFORMATION

1	DIA. & STROKE OF CYLINDERS	
2	ACTUAL WORKING STROKE OF CYLINDERS	
3	SWEPT VOLUME OF ALL CYLINDERS	
4	PRESSURE RISE - PERCENT	
5	INITIAL CONTACT FORCE	
6	MAX. CHARGING PRESSURES - DIA OPEN	
7	TOTAL DELIVERED FORCE AT 1500 PSI	
8	CHARGE SYSTEM TO 1500 PSI, DIE CLOSED	
9	DO NOT LOCK UP DIE WITH PRESSURE ON, DISCHARGE SYSTEM TO ZERO PSI.	

3/16 DIA. (4) HOLES

PLATE THICKNESS .09

JOLICO NO.	REF. NO.
J-13011	06958011

5.38

.18 TYP.

.18 TYP.

1.25

DIE NUMBER _____

UPPER DIE WT. _____ LBS.

TOTAL DIE WT. _____ LBS.

PUNCH PRESSURE _____ TONS STK. _____ S.H. _____

1/8 DIA. (4) HOLES

PLATE THICKNESS .09

JOLICO NO.	REF. NO.
J-13009	06340988

MISCELLANEOUS PLATES

PRINTED COPY IS
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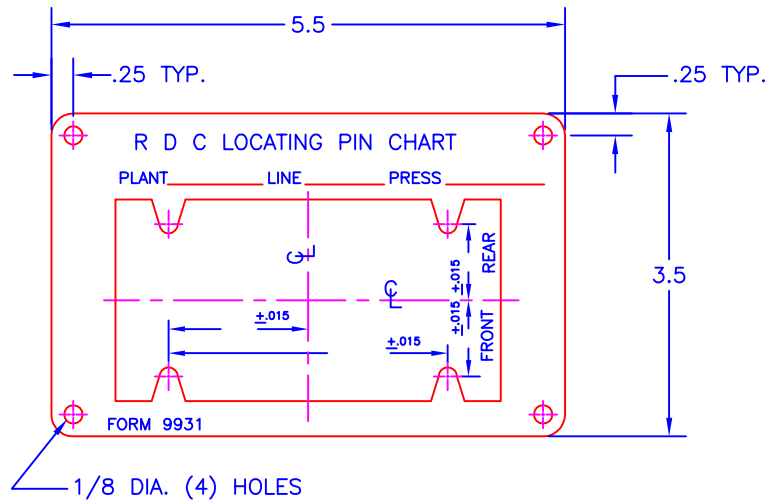


PLATE THICKNESS .09

JOLICO NO.	REF. NO.
J-13013	06958045

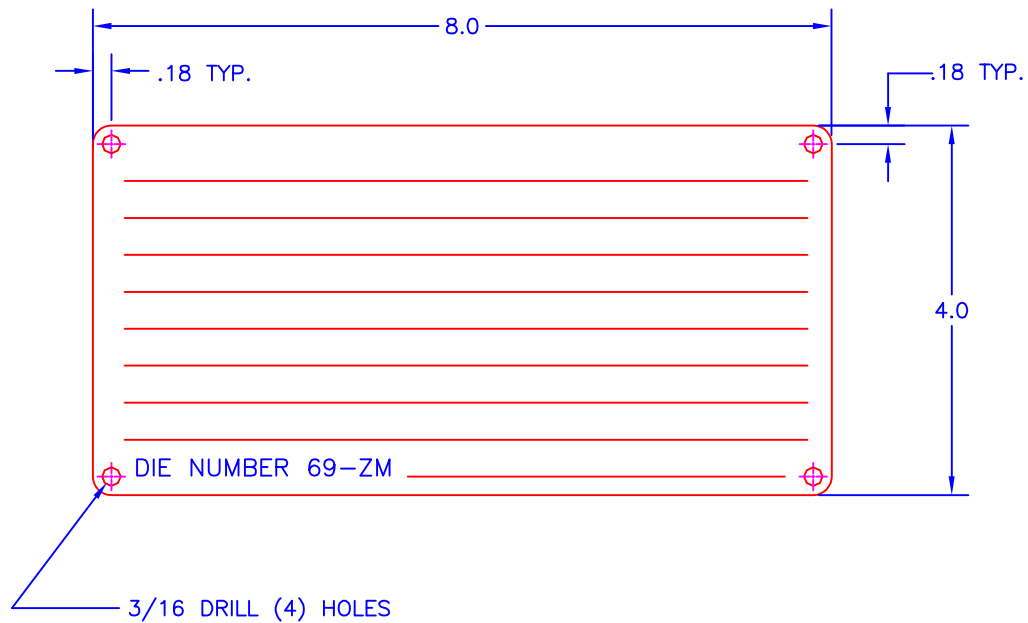


PLATE THICKNESS .09

JOLICO NO.	REF. NO.
J-13401	DF1-0401

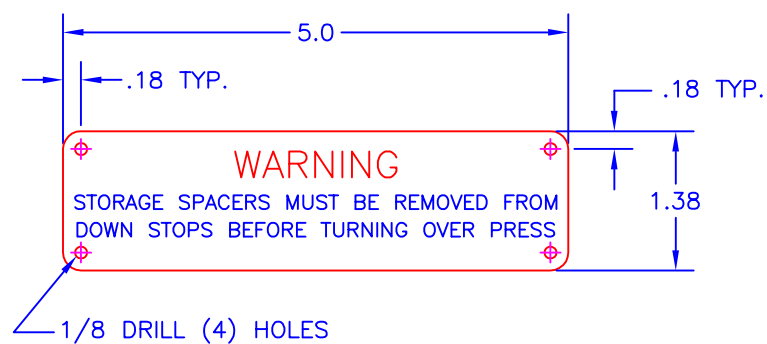


PLATE THICKNESS .09

JOLICO NO.	REF. NO.
J-13012	26894386

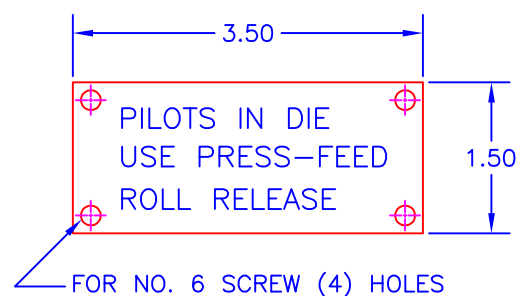
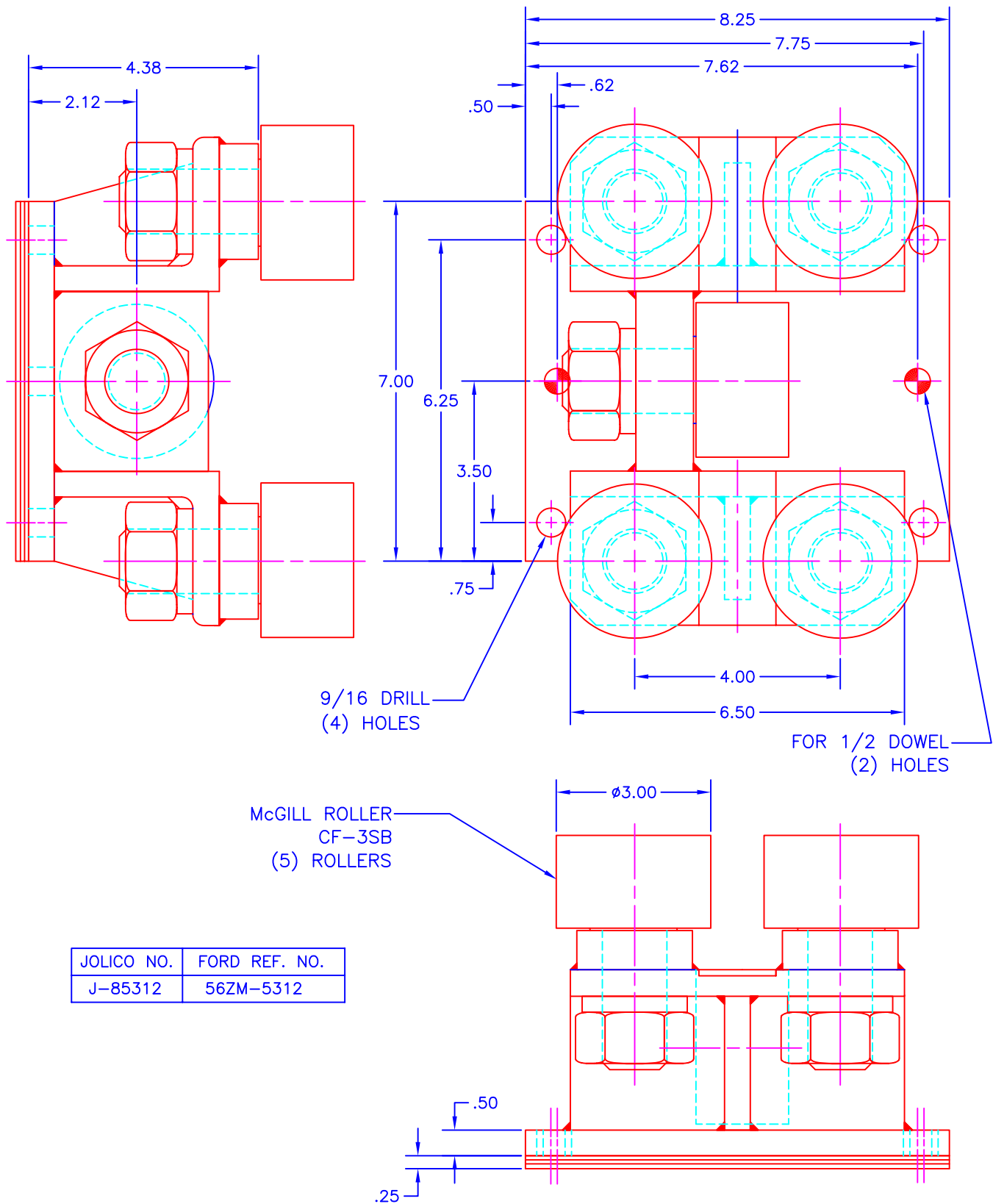


PLATE THICKNESS .06

JOLICO NO.	REF. NO.
J-13199	I. P. 199

BASE MOUNTED ROLLER ASSEMBLY FIVE ROLLERS

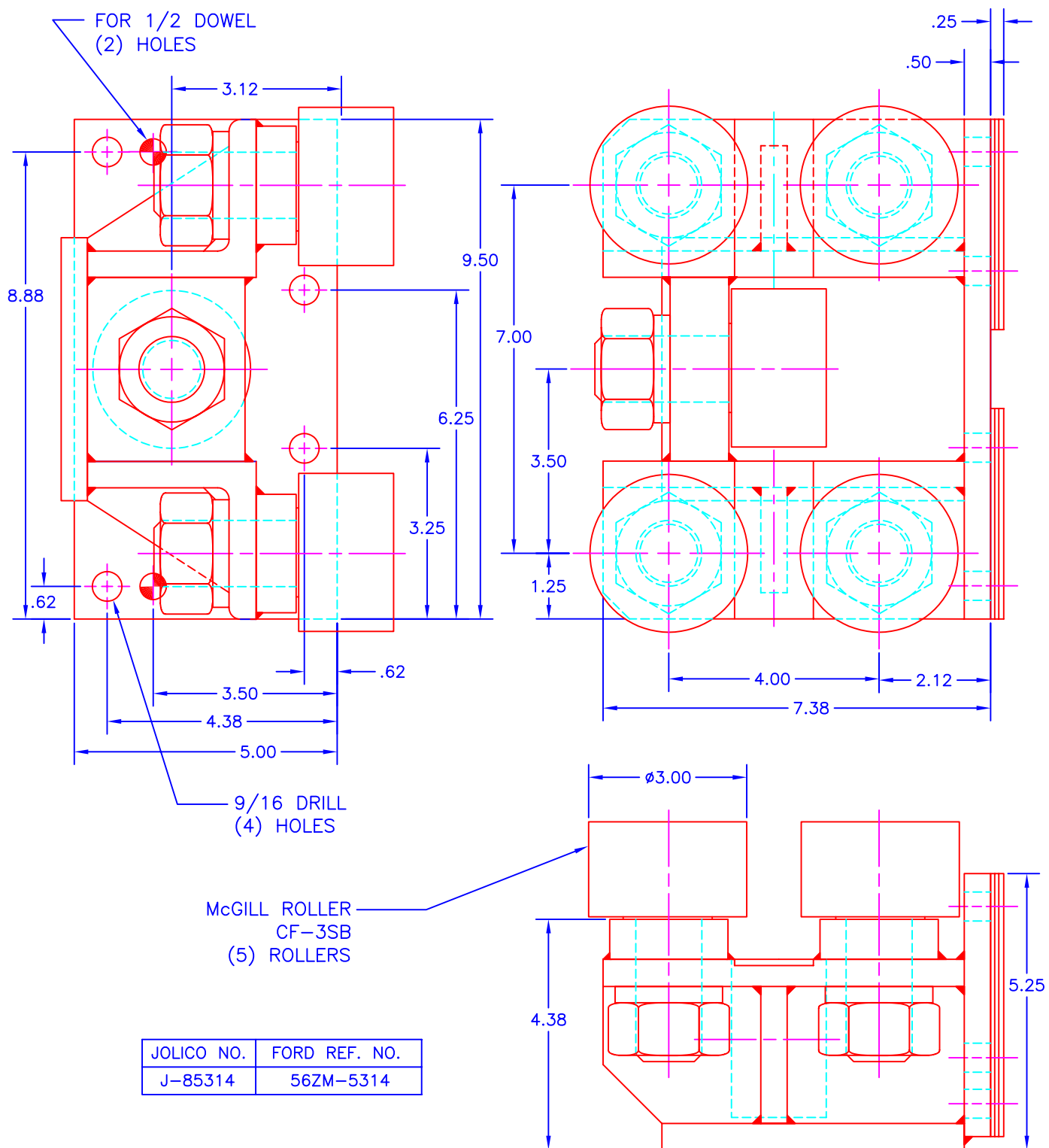
PRINTED COPY IS
UNCONTROLLED



PRINTED COPY IS
UNCONTROLLED

SIDE MOUNTED ROLLER ASSEMBLY

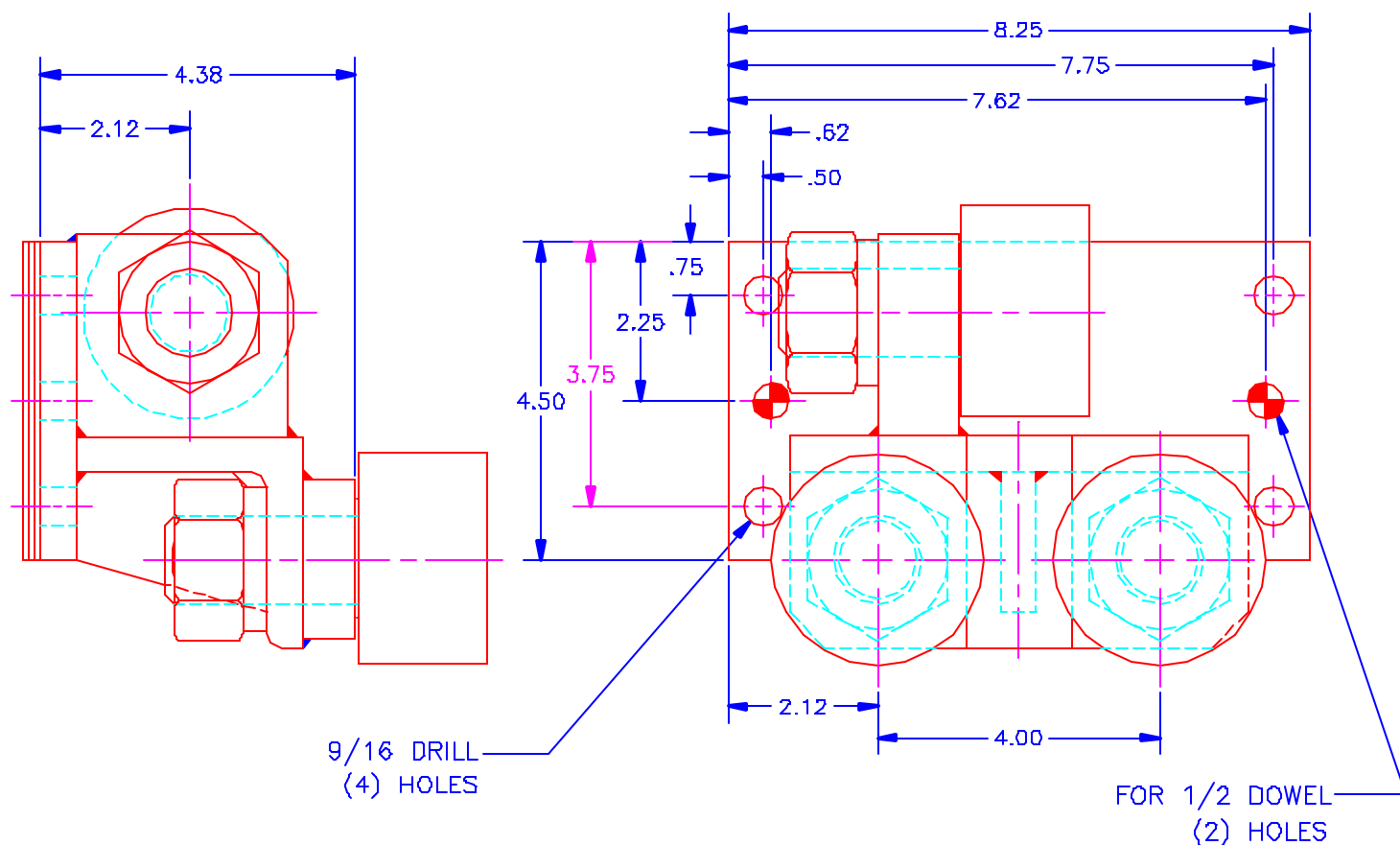
FIVE ROLLERS



BASE MOUNTED ROLLER ASSEMBLY

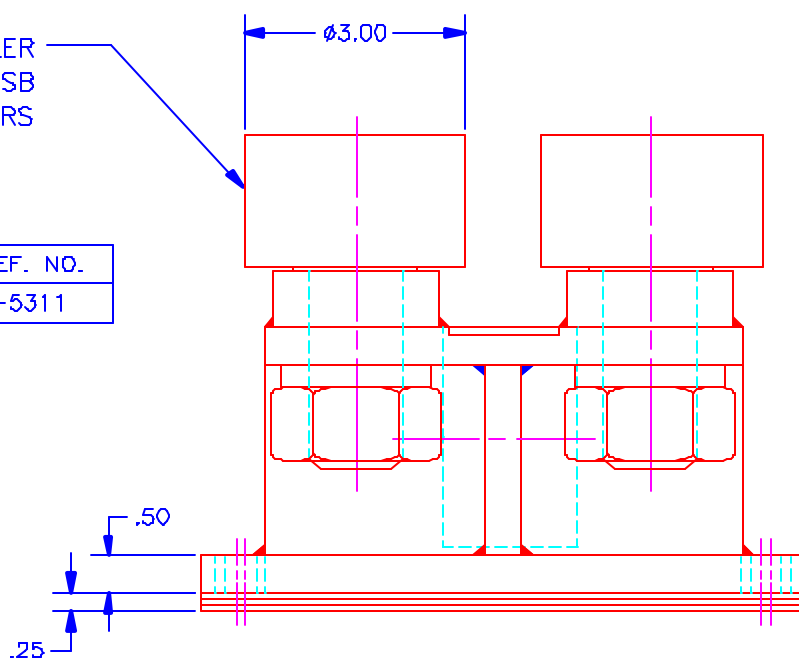
PRINTED COPY IS
UNCONTROLLED

THREE ROLLERS

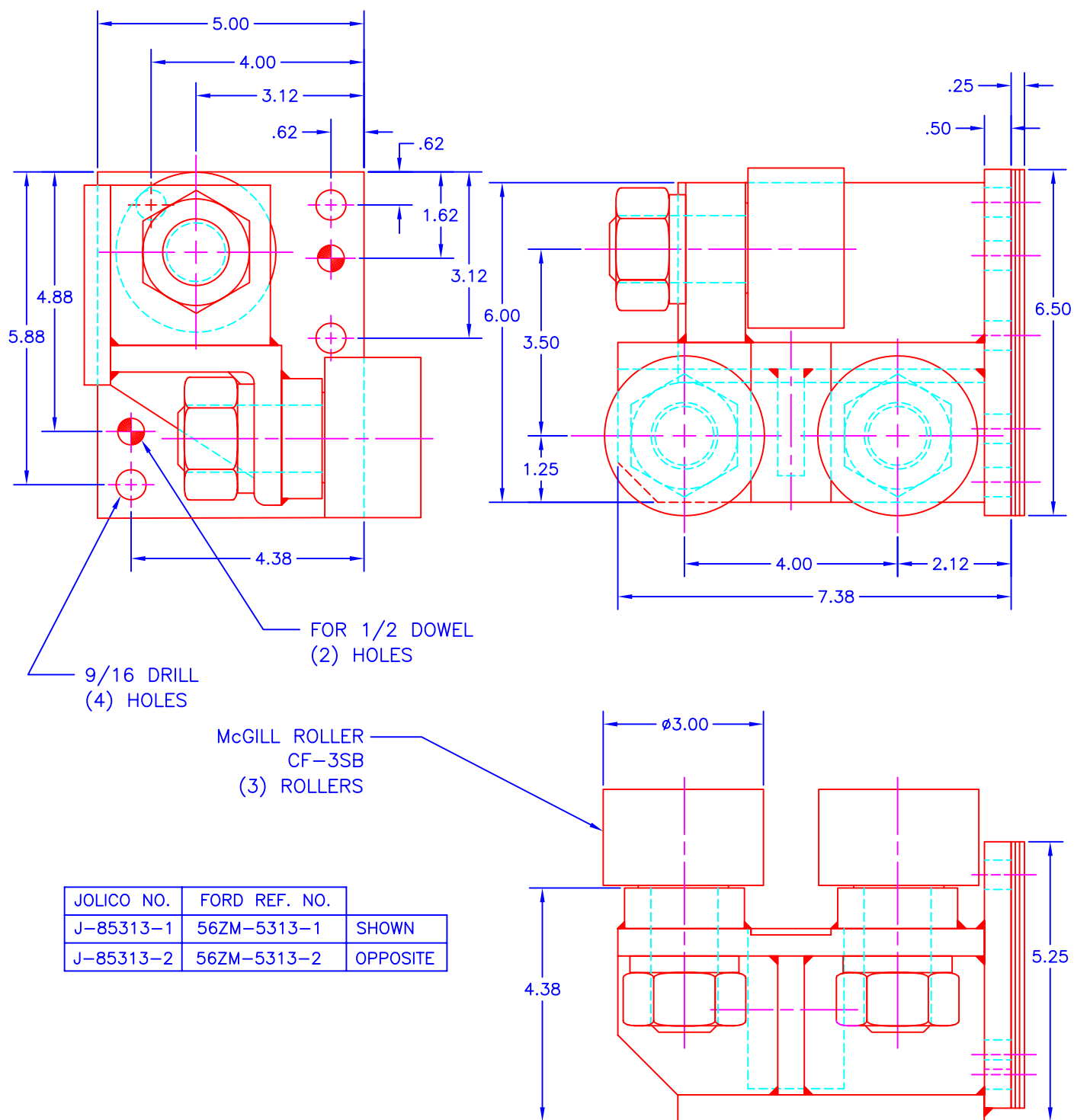


McGILL ROLLER
CF-3SB
(3) ROLLERS

JOLICO NO.	FORD REF. NO.
J-85311	56ZM-5311



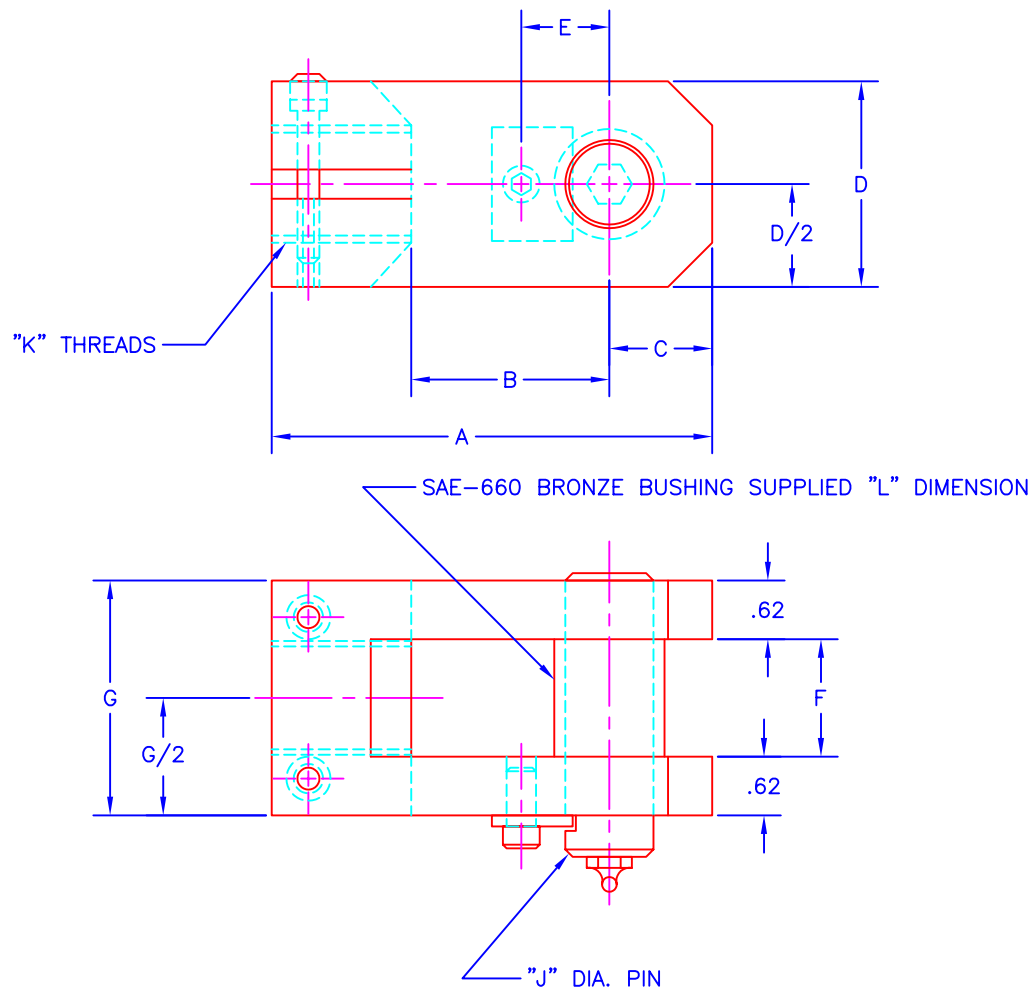
SIDE MOUNTED ROLLER ASSEMBLY THREE ROLLERS



CLEVIS ASSEMBLIES

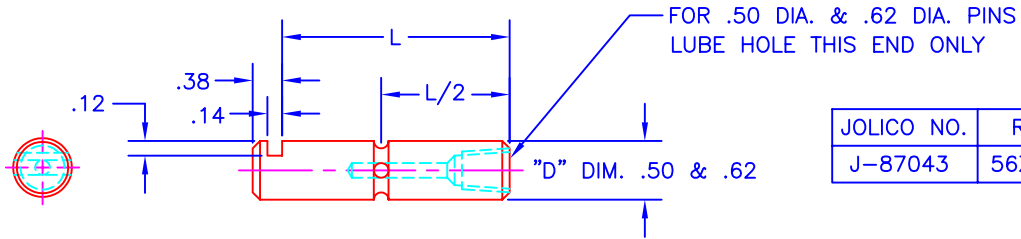
PRINTED COPY IS
UNCONTROLLED

CLEVIS ASSEMBLIES ARE USED FOR ALL TYPES OF AUTOMATION.
THEY ARE SCREWED ON TO AN AIR CYLINDER ROD TO TRANSMIT MOTION.

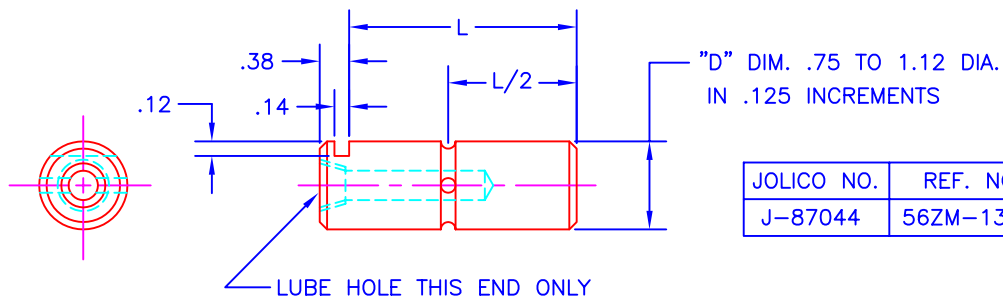


JOLICO NO.	CYL. BORE	A	B	C	D	E	F	G	ØJ	" K" THR'D.	"L" BUSHING
J-87920	2.00	4.25	2.12	1.00	2.00	0.90	1.00	2.25	0.88	1-8	7/8 I.D. X 1-1/8 O.D.
J-87921	2.50 & 3.25	4.88	2.25	1.12	2.25	0.97	1.38	2.62	1.00	1-1/4-12	1.0 I.D. X 1-1/4 O.D.

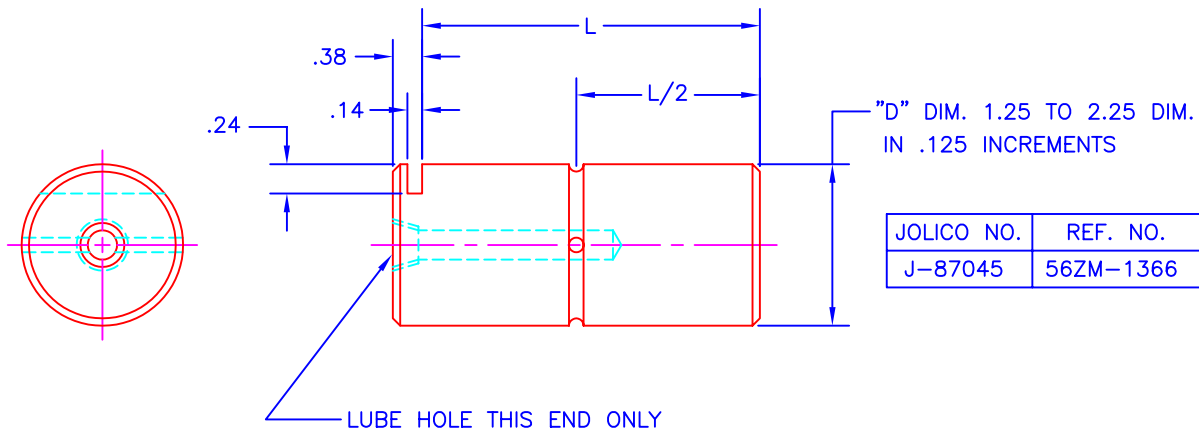
CLEVIS PINS



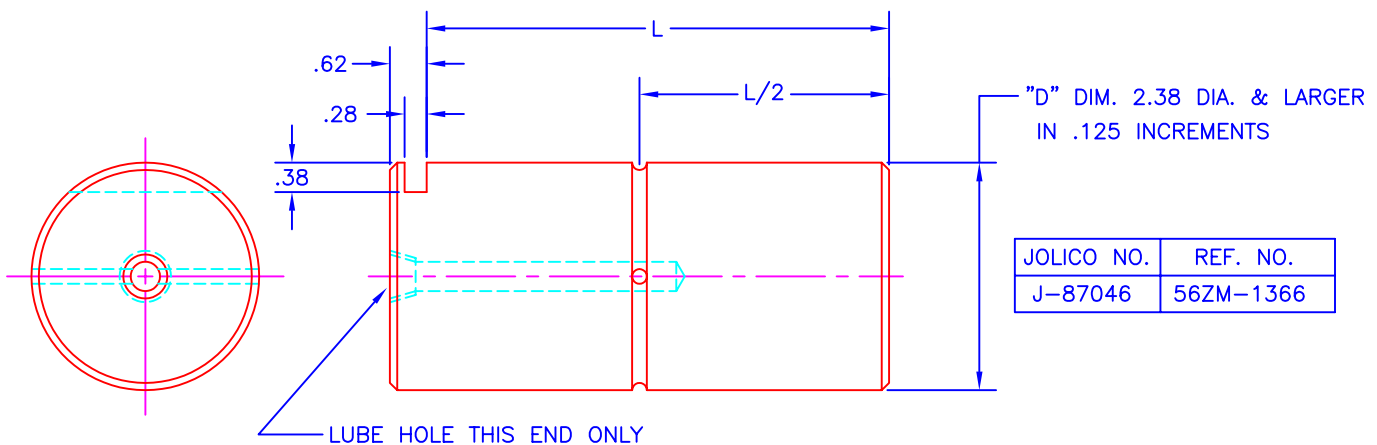
JOLICO NO.	REF. NO.
J-87043	56ZM-1366



JOLICO NO.	REF. NO.
J-87044	56ZM-1366



JOLICO NO.	REF. NO.
J-87045	56ZM-1366



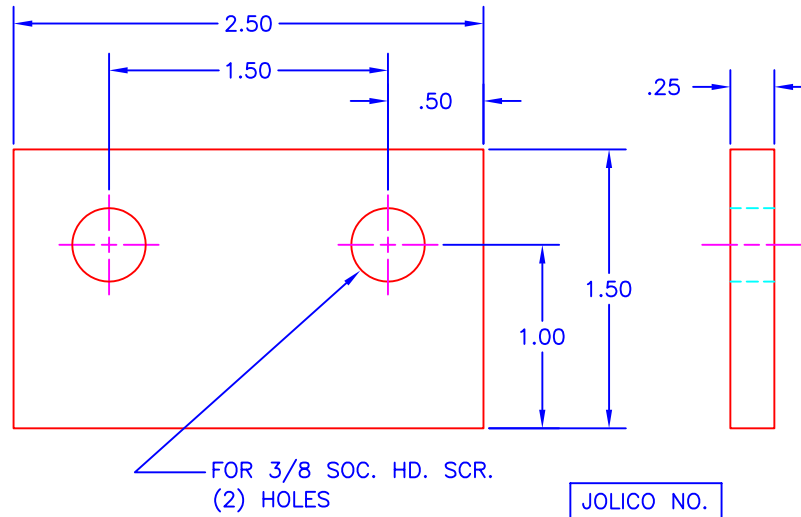
JOLICO NO.	REF. NO.
J-87046	56ZM-1366

NOTE:
ADD (A) PIN WITH LUBE HOLE
OR (B) PIN WITHOUT LUBE HOLE
AT THE END OF THE ORDERING
NUMBER.

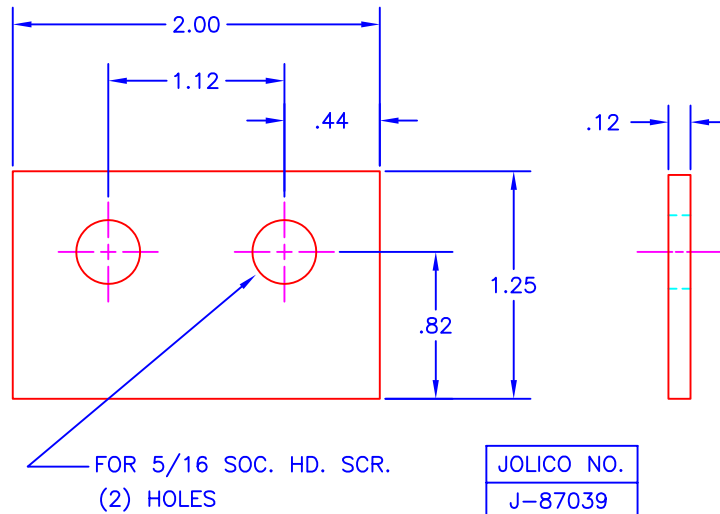
ORDERING EXAMPLE:
J-87046-L=5.5-D=2.5-A

KEEPERS

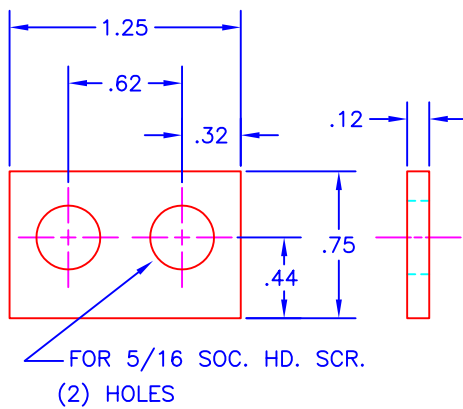
PRINTED COPY IS
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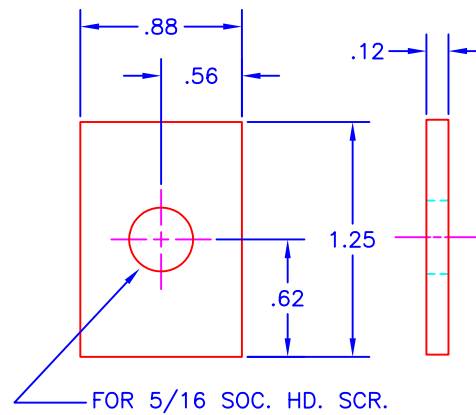
JOLICO NO.
J-87040



JOLICO NO.
J-87039



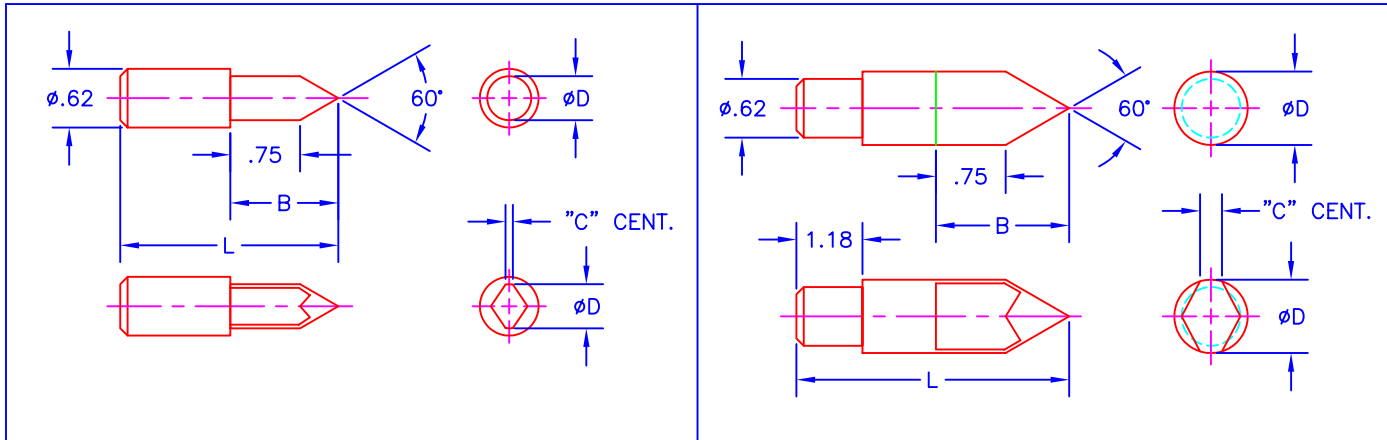
JOLICO NO.
J-87038



JOLICO NO.
J-87135

SHORT LEAD LOCATING PINS

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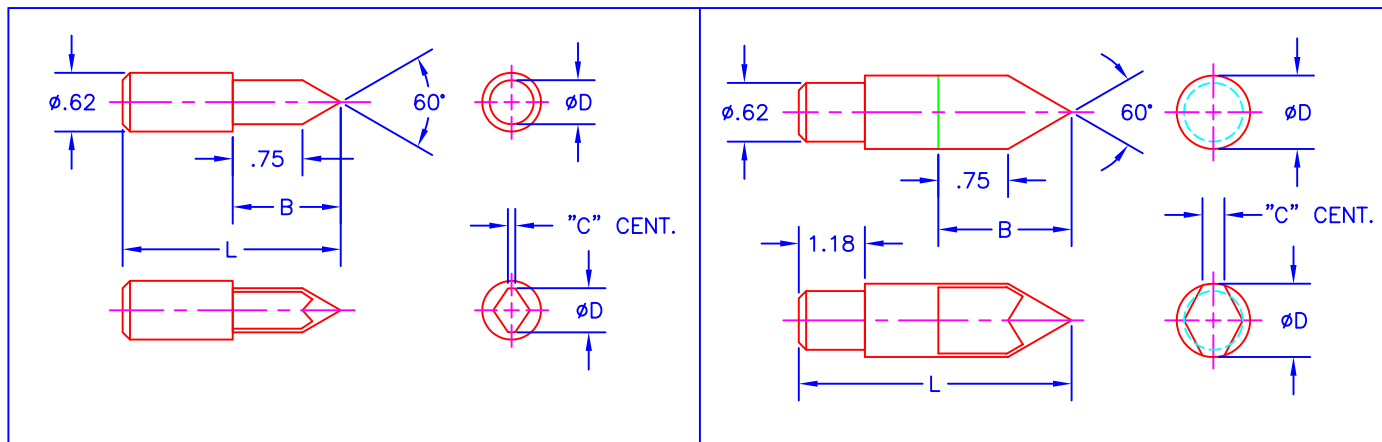


REF. 56ZM-2477

NOTE FOR PIN DIA. 5/8" AND OVER SEE PAGE 10.

ØD PIN DIA. +.000 -.008	ROUND PINS (PINS Ø.62 AND LESS)			DIAMOND PINS (PINS Ø.62 AND OVER)						
	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	STOCK DIA.	L	B	C
.235 1/4 NOM.	J-87320-43	J-87321-43	J-87322-43	J-87323-43	J-87324-43	J-87325-43	5/8	2.00	0.92	0.06
	J-87320-44	J-87321-44	J-87322-44	J-87323-44	J-87324-44	J-87325-44		2.62		
	J-87320-45	J-87321-45	J-87322-45	J-87323-45	J-87324-45	J-87325-45		2.50		
	J-87320-46	J-87321-46	J-87322-46	J-87323-46	J-87324-46	J-87325-46		2.76		
	J-87320-47	J-87321-47	J-87322-47	J-87323-47	J-87324-47	J-87325-47		3.00		
	J-87320-48	J-87321-48	J-87322-48	J-87323-48	J-87324-48	J-87325-48		3.26		
.297 5/16 NOM.	J-87320-49	J-87321-49	J-87322-49	J-87323-49	J-87324-49	J-87325-49	5/8	2.12	0.96	0.08
	J-87320-50	J-87321-50	J-87322-50	J-87323-50	J-87324-50	J-87325-50		2.38		
	J-87320-51	J-87321-51	J-87322-51	J-87323-51	J-87324-51	J-87325-51		2.62		
	J-87320-52	J-87321-52	J-87322-52	J-87323-52	J-87324-52	J-87325-52		2.88		
	J-87320-53	J-87321-53	J-87322-53	J-87323-53	J-87324-53	J-87325-53		3.12		
	J-87320-54	J-87321-54	J-87322-54	J-87323-54	J-87324-54	J-87325-54		3.36		
.360 3/8 NOM.	J-87320-55	J-87321-55	J-87322-55	J-87323-55	J-87324-55	J-87325-55	5/8	2.12	1.00	0.10
	J-87320-56	J-87321-56	J-87322-56	J-87323-56	J-87324-56	J-87325-56		2.38		
	J-87320-57	J-87321-57	J-87322-57	J-87323-57	J-87324-57	J-87325-57		2.62		
	J-87320-58	J-87321-58	J-87322-58	J-87323-58	J-87324-58	J-87325-58		2.88		
	J-87320-59	J-87321-59	J-87322-59	J-87323-59	J-87324-59	J-87325-59		3.12		
	J-87320-60	J-87321-60	J-87322-60	J-87323-60	J-87324-60	J-87325-60		3.36		
.485 1/2 NOM.	J-87320-61	J-87321-61	J-87322-61	J-87323-61	J-87324-61	J-87325-61	5/8	2.24	1.08	0.12
	J-87320-62	J-87321-62	J-87322-62	J-87323-62	J-87324-62	J-87325-62		2.50		
	J-87320-63	J-87321-63	J-87322-63	J-87323-63	J-87324-63	J-87325-63		2.74		
	J-87320-64	J-87321-64	J-87322-64	J-87323-64	J-87324-64	J-87325-64		3.00		
	J-87320-65	J-87321-65	J-87322-65	J-87323-65	J-87324-65	J-87325-65		3.24		
	J-87320-66	J-87321-66	J-87322-66	J-87323-66	J-87324-66	J-87325-66		3.50		

SHORT LEAD LOCATING PINS



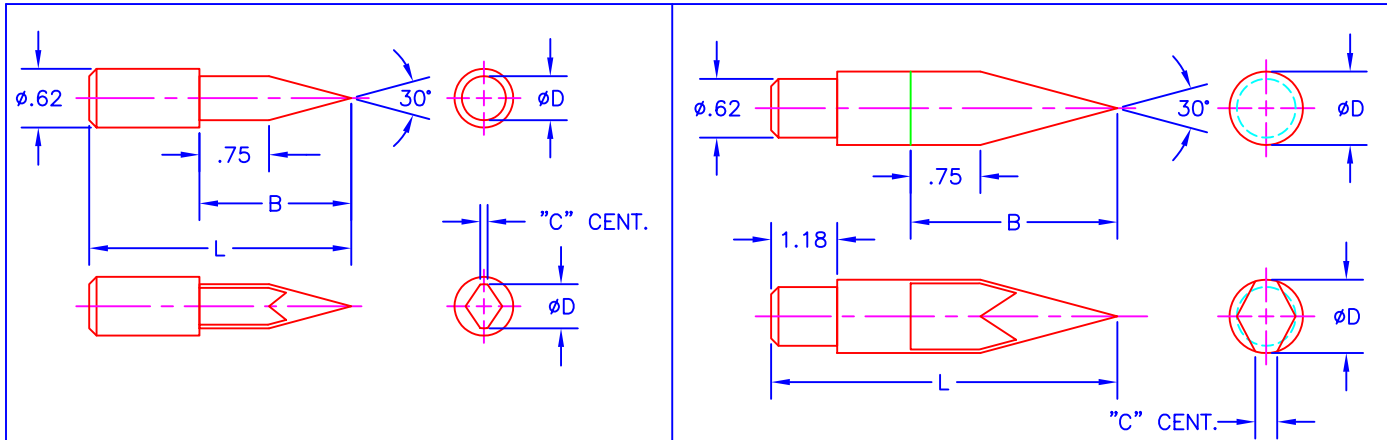
REF. 56ZM-2477

NOTE FOR PIN DIA. 1/2" AND SMALLER SEE PAGE 9.

ØD PIN DIA. +.000 -.008	ROUND PINS (PINS Ø.62 AND LESS)			DIAMOND PINS (PINS Ø.62 AND OVER)						
	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	STOCK DIA.	L	B	C
.610 5/8 NOM.	J-87320-67	J-87321-67	J-87322-67	J-87323-67	J-87324-67	J-87325-67	5/8	2.30	1.18	0.16
	J-87320-68	J-87321-68	J-87322-68	J-87323-68	J-87324-68	J-87325-68		2.56		
	J-87320-69	J-87321-69	J-87322-69	J-87323-69	J-87324-69	J-87325-69		2.80		
	J-87320-70	J-87321-70	J-87322-70	J-87323-70	J-87324-70	J-87325-70		3.06		
	J-87320-71	J-87321-71	J-87322-71	J-87323-71	J-87324-71	J-87325-71		3.30		
	J-87320-72	J-87321-72	J-87322-72	J-87323-72	J-87324-72	J-87325-72		3.56		
.735 3/4 NOM.	J-87320-73	J-87321-73	J-87322-73	J-87323-73	J-87324-73	J-87325-73	3/4	2.50	1.30	0.18
	J-87320-74	J-87321-74	J-87322-74	J-87323-74	J-87324-74	J-87325-74		2.76		
	J-87320-75	J-87321-75	J-87322-75	J-87323-75	J-87324-75	J-87325-75		3.00		
	J-87320-76	J-87321-76	J-87322-76	J-87323-76	J-87324-76	J-87325-76		3.26		
	J-87320-77	J-87321-77	J-87322-77	J-87323-77	J-87324-77	J-87325-77		3.50		
	J-87320-78	J-87321-78	J-87322-78	J-87323-78	J-87324-78	J-87325-78		3.76		
.985 1.00 NOM.	J-87320-79	J-87321-79	J-87322-79	J-87323-79	J-87324-79	J-87325-79	1.00"	2.68	1.48	0.24
	J-87320-80	J-87321-80	J-87322-80	J-87323-80	J-87324-80	J-87325-80		2.94		
	J-87320-81	J-87321-81	J-87322-81	J-87323-81	J-87324-81	J-87325-81		3.18		
	J-87320-82	J-87321-82	J-87322-82	J-87323-82	J-87324-82	J-87325-82		3.44		
	J-87320-83	J-87321-83	J-87322-83	J-87323-83	J-87324-83	J-87325-83		3.68		
	J-87320-84	J-87321-84	J-87322-84	J-87323-84	J-87324-84	J-87325-84		3.94		

LONG LEAD LOCATING PINS

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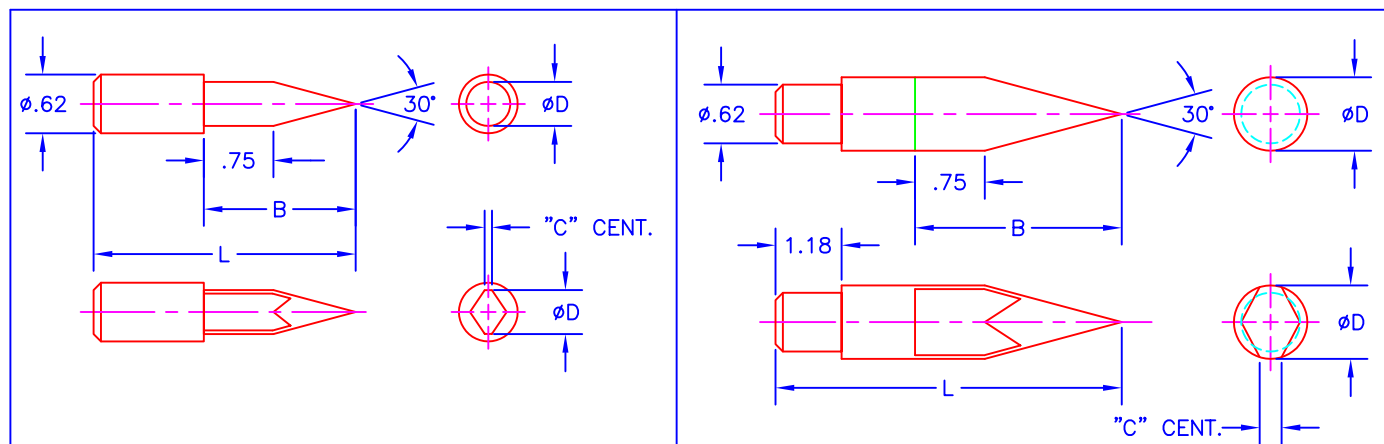


REF. 56ZM-2477

NOTE FOR PIN DIA. 5/8" AND OVER SEE PAGE 12.

ØD PIN DIA. +.000 -.008	ROUND PINS (PINS Ø.62 AND LESS)			DIAMOND PINS (PINS Ø.62 AND OVER)						
	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	STOCK DIA.	L	B	C
.235 1/4 NOM.	J-87314-1	J-87315-1	J-87316-1	J-87317-1	J-87318-1	J-87319-1	5/8	2.24	1.12	0.06
	J-87314-2	J-87315-2	J-87316-2	J-87317-2	J-87318-2	J-87319-2		2.50		
	J-87314-3	J-87315-3	J-87316-3	J-87317-3	J-87318-3	J-87319-3		2.74		
	J-87314-4	J-87315-4	J-87316-4	J-87317-4	J-87318-4	J-87319-4		3.00		
	J-87314-5	J-87315-5	J-87316-5	J-87317-5	J-87318-5	J-87319-5		3.24		
	J-87314-6	J-87315-6	J-87316-6	J-87317-6	J-87318-6	J-87319-6		3.50		
.297 5/16 NOM.	J-87314-7	J-87315-7	J-87316-7	J-87317-7	J-87318-7	J-87319-7	5/8	2.36	1.24	0.08
	J-87314-8	J-87315-8	J-87316-8	J-87317-8	J-87318-8	J-87319-8		2.62		
	J-87314-9	J-87315-9	J-87316-9	J-87317-9	J-87318-9	J-87319-9		2.86		
	J-87314-10	J-87315-10	J-87316-10	J-87317-10	J-87318-10	J-87319-10		3.12		
	J-87314-11	J-87315-11	J-87316-11	J-87317-11	J-87318-11	J-87319-11		3.36		
	J-87314-12	J-87315-12	J-87316-12	J-87317-12	J-87318-12	J-87319-12		3.62		
.360 3/8 NOM.	J-87314-13	J-87315-13	J-87316-13	J-87317-13	J-87318-13	J-87319-13	5/8	2.42	1.30	0.10
	J-87314-14	J-87315-14	J-87316-14	J-87317-14	J-87318-14	J-87319-14		2.68		
	J-87314-15	J-87315-15	J-87316-15	J-87317-15	J-87318-15	J-87319-15		2.92		
	J-87314-16	J-87315-16	J-87316-16	J-87317-16	J-87318-16	J-87319-16		3.18		
	J-87314-17	J-87315-17	J-87316-17	J-87317-17	J-87318-17	J-87319-17		3.42		
	J-87314-18	J-87315-18	J-87316-18	J-87317-18	J-87318-18	J-87319-18		3.68		
.485 1/2 NOM.	J-87314-19	J-87315-19	J-87316-19	J-87317-19	J-87318-19	J-87319-19	5/8	2.62	1.50	0.12
	J-87314-20	J-87315-20	J-87316-20	J-87317-20	J-87318-20	J-87319-20		2.88		
	J-87314-21	J-87315-21	J-87316-21	J-87317-21	J-87318-21	J-87319-21		3.12		
	J-87314-22	J-87315-22	J-87316-22	J-87317-22	J-87318-22	J-87319-22		3.38		
	J-87314-23	J-87315-23	J-87316-23	J-87317-23	J-87318-23	J-87319-23		3.62		
	J-87314-24	J-87315-24	J-87316-24	J-87317-24	J-87318-24	J-87319-24		3.88		

LONG LEAD LOCATING PINS

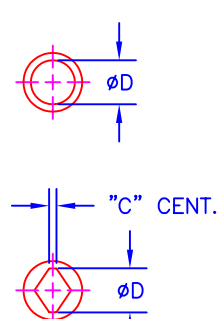
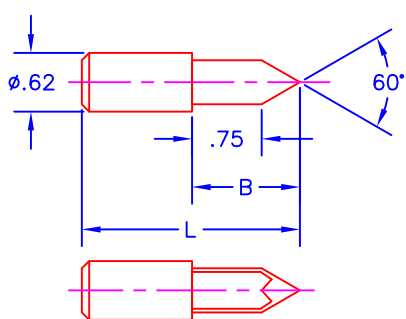


REF. 56ZM-2477

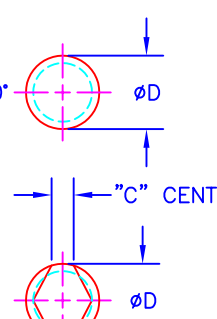
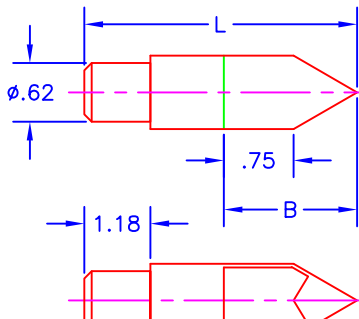
NOTE FOR PIN DIA. 1/2" AND SMALLER SEE PAGE 11.

ØD PIN DIA. +.000 -.008	ROUND PINS (PINS Ø.62 AND LESS)			DIAMOND PINS (PINS Ø.62 AND OVER)						
	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	STOCK DIA.	L	B	C
.610 5/8 NOM.	J-87314-25	J-87315-25	J-87316-25	J-87317-25	J-87318-25	J-87319-25	5/8	2.80	1.68	0.16
	J-87314-26	J-87315-26	J-87316-26	J-87317-26	J-87318-26	J-87319-26		3.06		
	J-87314-27	J-87315-27	J-87316-27	J-87317-27	J-87318-27	J-87319-27		3.30		
	J-87314-28	J-87315-28	J-87316-28	J-87317-28	J-87318-28	J-87319-28		3.56		
	J-87314-29	J-87315-29	J-87316-29	J-87317-29	J-87318-29	J-87319-29		3.80		
	J-87314-30	J-87315-30	J-87316-30	J-87317-30	J-87318-30	J-87319-30		4.06		
.735 3/4 NOM.	J-87314-31	J-87315-31	J-87316-31	J-87317-31	J-87318-31	J-87319-31	3/4	3.06	1.86	0.18
	J-87314-32	J-87315-32	J-87316-32	J-87317-32	J-87318-32	J-87319-32		3.32		
	J-87314-33	J-87315-33	J-87316-33	J-87317-33	J-87318-33	J-87319-33		3.56		
	J-87314-34	J-87315-34	J-87316-34	J-87317-34	J-87318-34	J-87319-34		3.82		
	J-87314-35	J-87315-35	J-87316-35	J-87317-35	J-87318-35	J-87319-35		4.06		
	J-87314-36	J-87315-36	J-87316-36	J-87317-36	J-87318-36	J-87319-36		4.32		
.985 1.00 NOM.	J-87314-37	J-87315-37	J-87316-37	J-87317-37	J-87318-37	J-87319-37	1.00"	3.44	2.24	0.24
	J-87314-38	J-87315-38	J-87316-38	J-87317-38	J-87318-38	J-87319-38		3.70		
	J-87314-39	J-87315-39	J-87316-39	J-87317-39	J-87318-39	J-87319-39		3.94		
	J-87314-40	J-87315-40	J-87316-40	J-87317-40	J-87318-40	J-87319-40		4.20		
	J-87314-41	J-87315-41	J-87316-41	J-87317-41	J-87318-41	J-87319-41		4.44		
	J-87314-42	J-87315-42	J-87316-42	J-87317-42	J-87318-42	J-87319-42		4.70		

SHORT LEAD LOCATING PINS

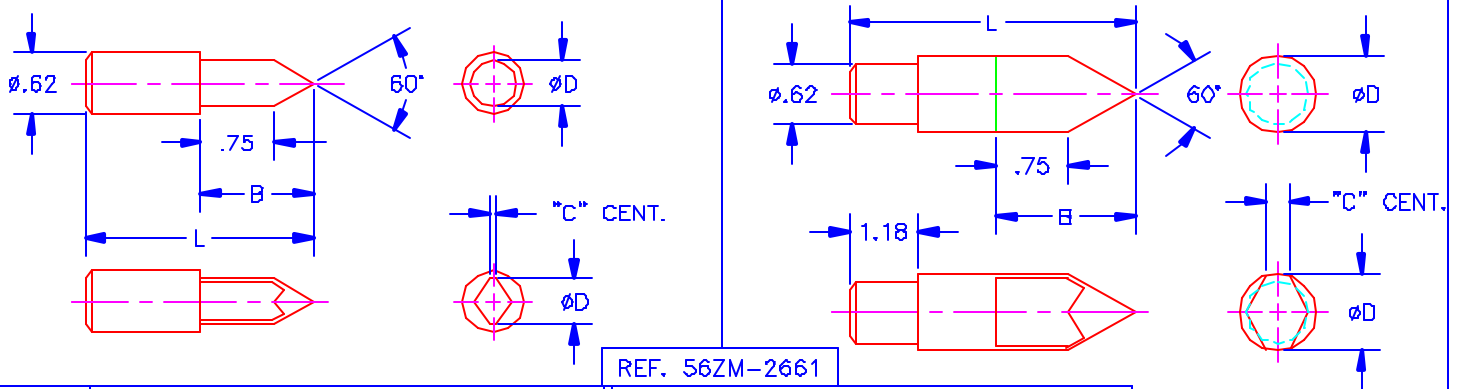


REF. 56ZM-2661



ØD PIN DIA. +.00 -.08	ROUND PINS (PINS Ø16mm AND LESS)			DIAMOND PINS (PINS OVER Ø16mm)			STOCK DIA.	L	B	C
	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED				
7.60 8mm NOM.	J-87308-43	J-87309-43	J-87310-43	J-87311-43	J-87312-43	J-87313-43	5/8	2.12	0.96	0.08
	J-87308-44	J-87309-44	J-87310-44	J-87311-44	J-87312-44	J-87313-44		2.38		
	J-87308-45	J-87309-45	J-87310-45	J-87311-45	J-87312-45	J-87313-45		2.62		
	J-87308-46	J-87309-46	J-87310-46	J-87311-46	J-87312-46	J-87313-46		2.88		
	J-87308-47	J-87309-47	J-87310-47	J-87311-47	J-87312-47	J-87313-47		3.12		
	J-87308-48	J-87309-48	J-87310-48	J-87311-48	J-87312-48	J-87313-48		3.36		
9.60 10mm NOM.	J-87308-49	J-87309-49	J-87310-49	J-87311-49	J-87312-49	J-87313-49	5/8	2.12	1.00	0.10
	J-87308-50	J-87309-50	J-87310-50	J-87311-50	J-87312-50	J-87313-50		2.38		
	J-87308-51	J-87309-51	J-87310-51	J-87311-51	J-87312-51	J-87313-51		2.62		
	J-87308-52	J-87309-52	J-87310-52	J-87311-52	J-87312-52	J-87313-52		2.88		
	J-87308-53	J-87309-53	J-87310-53	J-87311-53	J-87312-53	J-87313-53		3.12		
	J-87308-54	J-87309-54	J-87310-54	J-87311-54	J-87312-54	J-87313-54		3.36		
12.60 13mm NOM.	J-87308-55	J-87309-55	J-87310-55	J-87311-55	J-87312-55	J-87313-55	5/8	2.24	1.08	0.12
	J-87308-56	J-87309-56	J-87310-56	J-87311-56	J-87312-56	J-87313-56		2.50		
	J-87308-57	J-87309-57	J-87310-57	J-87311-57	J-87312-57	J-87313-57		2.74		
	J-87308-58	J-87309-58	J-87310-58	J-87311-58	J-87312-58	J-87313-58		3.00		
	J-87308-59	J-87309-59	J-87310-59	J-87311-59	J-87312-59	J-87313-59		3.24		
	J-87308-60	J-87309-60	J-87310-60	J-87311-60	J-87312-60	J-87313-60		3.50		
15.60 16mm NOM.	J-87308-61	J-87309-61	J-87310-61	J-87311-61	J-87312-61	J-87313-61	3/4	2.30	1.18	0.16
	J-87308-62	J-87309-62	J-87310-62	J-87311-62	J-87312-62	J-87313-62		2.56		
	J-87308-63	J-87309-63	J-87310-63	J-87311-63	J-87312-63	J-87313-63		2.80		
	J-87308-64	J-87309-64	J-87310-64	J-87311-64	J-87312-64	J-87313-64		3.06		
	J-87308-65	J-87309-65	J-87310-65	J-87311-65	J-87312-65	J-87313-65		3.30		
	J-87308-66	J-87309-66	J-87310-66	J-87311-66	J-87312-66	J-87313-66		3.56		
18.60 19mm NOM.	J-87308-67	J-87309-67	J-87310-67	J-87311-67	J-87312-67	J-87313-67	3/4	2.50	1.30	0.18
	J-87308-68	J-87309-68	J-87310-68	J-87311-68	J-87312-68	J-87313-68		2.76		
	J-87308-69	J-87309-69	J-87310-69	J-87311-69	J-87312-69	J-87313-69		3.00		
	J-87308-70	J-87309-70	J-87310-70	J-87311-70	J-87312-70	J-87313-70		3.26		
	J-87308-71	J-87309-71	J-87310-71	J-87311-71	J-87312-71	J-87313-71		3.50		
	J-87308-72	J-87309-72	J-87310-72	J-87311-72	J-87312-72	J-87313-72		3.76		
25.60 26mm NOM.	J-87308-73	J-87309-73	J-87310-73	J-87311-73	J-87312-73	J-87313-73	1-1/8	2.68	1.48	0.24
	J-87308-74	J-87309-74	J-87310-74	J-87311-74	J-87312-74	J-87313-74		2.94		
	J-87308-75	J-87309-75	J-87310-75	J-87311-75	J-87312-75	J-87313-75		3.18		
	J-87308-76	J-87309-76	J-87310-76	J-87311-76	J-87312-76	J-87313-76		3.44		
	J-87308-77	J-87309-77	J-87310-77	J-87311-77	J-87312-77	J-87313-77		3.68		
	J-87308-78	J-87309-78	J-87310-78	J-87311-78	J-87312-78	J-87313-78		3.94		

SHORT LEAD LOCATING PINS



ØD PIN DIA. +.00mm -.08	ROUND PINS (PINS Ø16mm AND LESS)			DIAMOND PINS (PINS OVER Ø16mm)			STOCK DIA.	L	B	C
	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED	HARDENED C. R. S.	STAINLESS STEEL	C. N. I. COATED				
7.60 8mm NOM.	J-87308-43	J-87309-43	J-87310-43	J-87311-43	J-87312-43	J-87313-43	5/8	2.12	0.96	0.08
	J-87308-44	J-87309-44	J-87310-44	J-87311-44	J-87312-44	J-87313-44		2.38		
	J-87308-45	J-87309-45	J-87310-45	J-87311-45	J-87312-45	J-87313-45		2.62		
	J-87308-46	J-87309-46	J-87310-46	J-87311-46	J-87312-46	J-87313-46		2.88		
	J-87308-47	J-87309-47	J-87310-47	J-87311-47	J-87312-47	J-87313-47		3.12		
	J-87308-48	J-87309-48	J-87310-48	J-87311-48	J-87312-48	J-87313-48		3.36		
9.60 10mm NOM.	J-87308-49	J-87309-49	J-87310-49	J-87311-49	J-87312-49	J-87313-49	5/8	2.12	1.00	0.10
	J-87308-50	J-87309-50	J-87310-50	J-87311-50	J-87312-50	J-87313-50		2.38		
	J-87308-51	J-87309-51	J-87310-51	J-87311-51	J-87312-51	J-87313-51		2.62		
	J-87308-52	J-87309-52	J-87310-52	J-87311-52	J-87312-52	J-87313-52		2.88		
	J-87308-53	J-87309-53	J-87310-53	J-87311-53	J-87312-53	J-87313-53		3.12		
	J-87308-54	J-87309-54	J-87310-54	J-87311-54	J-87312-54	J-87313-54		3.36		
12.60 13mm NOM.	J-87308-55	J-87309-55	J-87310-55	J-87311-55	J-87312-55	J-87313-55	5/8	2.24	1.08	0.12
	J-87308-56	J-87309-56	J-87310-56	J-87311-56	J-87312-56	J-87313-56		2.50		
	J-87308-57	J-87309-57	J-87310-57	J-87311-57	J-87312-57	J-87313-57		2.74		
	J-87308-58	J-87309-58	J-87310-58	J-87311-58	J-87312-58	J-87313-58		3.00		
	J-87308-59	J-87309-59	J-87310-59	J-87311-59	J-87312-59	J-87313-59		3.24		
	J-87308-60	J-87309-60	J-87310-60	J-87311-60	J-87312-60	J-87313-60		3.50		
15.60 16mm NOM.	J-87308-61	J-87309-61	J-87310-61	J-87311-61	J-87312-61	J-87313-61	3/4	2.30	1.18	0.16
	J-87308-62	J-87309-62	J-87310-62	J-87311-62	J-87312-62	J-87313-62		2.56		
	J-87308-63	J-87309-63	J-87310-63	J-87311-63	J-87312-63	J-87313-63		2.80		
	J-87308-64	J-87309-64	J-87310-64	J-87311-64	J-87312-64	J-87313-64		3.06		
	J-87308-65	J-87309-65	J-87310-65	J-87311-65	J-87312-65	J-87313-65		3.30		
	J-87308-66	J-87309-66	J-87310-66	J-87311-66	J-87312-66	J-87313-66		3.56		
18.60 19mm NOM.	J-87308-67	J-87309-67	J-87310-67	J-87311-67	J-87312-67	J-87313-67	3/4	2.50	1.30	0.18
	J-87308-68	J-87309-68	J-87310-68	J-87311-68	J-87312-68	J-87313-68		2.76		
	J-87308-69	J-87309-69	J-87310-69	J-87311-69	J-87312-69	J-87313-69		3.00		
	J-87308-70	J-87309-70	J-87310-70	J-87311-70	J-87312-70	J-87313-70		3.26		
	J-87308-71	J-87309-71	J-87310-71	J-87311-71	J-87312-71	J-87313-71		3.50		
	J-87308-72	J-87309-72	J-87310-72	J-87311-72	J-87312-72	J-87313-72		3.76		
25.60 26mm NOM.	J-87308-73	J-87309-73	J-87310-73	J-87311-73	J-87312-73	J-87313-73	1-1/8	2.68	1.48	0.24
	J-87308-74	J-87309-74	J-87310-74	J-87311-74	J-87312-74	J-87313-74		2.94		
	J-87308-75	J-87309-75	J-87310-75	J-87311-75	J-87312-75	J-87313-75		3.18		
	J-87308-76	J-87309-76	J-87310-76	J-87311-76	J-87312-76	J-87313-76		3.44		
	J-87308-77	J-87309-77	J-87310-77	J-87311-77	J-87312-77	J-87313-77		3.68		
	J-87308-78	J-87309-78	J-87310-78	J-87311-78	J-87312-78	J-87313-78		3.94		