



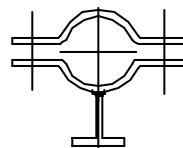
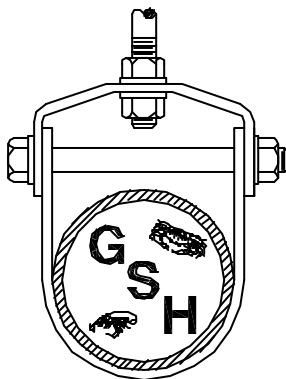
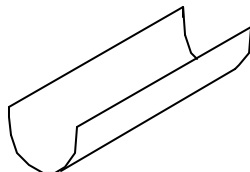
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GULF STATE HANGERS

and

Supports Manufacturers, Inc.



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==We Specialize In Custom Made Stainless Steel Hangers==



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INTRODUCTION

GULF STATE HANGERS and Support Manufacturers, Inc.

"SPECIALISTS IN CUSTOM MADE STAINLESS STEEL HANGERS"

We have been manufacturing pipe hangers and custom designed supports since 1977. We do custom fabrication from most popular grades of construction materials. Over the years we have had the opportunity to assist many of our customers in solving troublesome problems by fabricating custom hangers to fit their specific needs. We can customize standard products to fit your needs.

The employees and management of Gulf State *Hangers* would like to take this opportunity to thank our customers for their inquiries and purchase orders over the past years. We take pride and pleasure in dedicating this catalog to our customers and future customers.

This is not just another catalog for looking up figure numbers to place an order for materials that no one remembered to order. We have attempted to make this catalog a presentation of examples of the types of work that Gulf State Hangers turns out. This catalog should make it easier for engineers and designers to select supports that meet their needs without being limited to selections available in other catalogs.

Gulf State Hangers takes pride in the fact that we go beyond the normal procedure of "business as usual". We try to take an interest in seeing that our customers are satisfied in the quality of the product as well as the service they receive.

With that in mind Gulf State Hangers has instituted many changes in our sales, production, and management programs. We feel these changes will enable us to keep our prices intact and better serve our customers without reducing the quality of our products. Management reviews all inquiries from new customers. All orders from customers that do not have Management credit approval will be C.O.D.

Our reputation rests with satisfied customers. We appreciate the opportunity to serve you. For additional information about the company, or any of our products, or if you have a problem connected with pipe hangers or steel fabrication, call us at (251) 653-6228, FAX (251)653-5356, or write Gulf State Hangers, P.O. Box 407, Theodore, AI. 36590.

The Management

GENERAL NOTES

CATALOG PAGE NUMBERING: We have a unique system of numbering the pages in this catalog. *The item Figure Number is the page number.* An index is not required to find an item in this catalog if you know the *GSH* Figure Number. We believe this page numbering system will be easier and faster than looking up the page number in an index.

INDICES: Two indexes are included in this catalog. Both are designed to be a cross reference between *Gulf State Hangers* figure numbers and Grinnell figure numbers. The index in the front of the catalog is in numerical order by Gulf State Hangers figure numbers. The index in the back of the catalog is in numerical order by Grinnell figure numbers.

SPECIFICATIONS: All catalog products meet the requirements of MSS SP-58. Custom fabricated products will meet the specifications provided by the customer. Standard specifications are subject to change without notice.

UNITS OF MEASURE: In this catalog dimensions are in inches, and loads and weights are in pounds unless otherwise noted. All weights are approximate.

MATERIALS:

Carbon Steel catalog items for general use are made from the following materials.

ITEM	MATERIAL SPECIFICATION
Structural Shapes and Flat Bar	ASTM A-36
Plate, Rod, and Pins	ASTM A-36
Pipe	ASTM A-53
Bolts	ASTM A-307 Grade A
Nuts	ASTM A-563 Grade A
Forgings	ASTM A-668 Grade C, D or F

Alloy or stainless steel Catalog Items are made from the following materials unless otherwise specified in the order.

ITEM	CHROME-MOLY	STAINLESS STEEL
Plate	ASTM A-387 Grade 11 or 22	A-240 Type 304
Pipe	ASTM A-335 Grade P11/P22	A-312 Type 304
Rod 8z Pins	ASTM A-322 Grade 4140	A-276 Type 304
Bolts	ASTM A-193 Grade B7 or B16	18-8 Stainless
Nuts	ASTM-194 Grade 2H	18-8 Stainless

CUSTOM WORK

ORDERING CUSTOM ITEMS - *Gulf State Hangers'* quoted prices for custom made items are based on the stated quantities and the existing material and labor cost. Changes in order quantities may change the quoted pricing. This makes it very important for order quantities to be correct before asking for prices or entering an order.

NON-RETURNABLE WORK - All custom work including standard hangers made from non-standard materials specified by the customer and any item made to a customer's drawing or dimensions is the property of the customer as soon as *Gulf State Hangers* orders any special material or starts work on any material in inventory. Such material and labor is non-returnable for credit and payment is due *Gulf State Hangers* when invoiced. See CONDITIONS AND TERMS OF SALE printed inside the back cover of this catalog for more details.

SPECIAL SHAPES - *Gulf State Hangers* reserves the right to fabricate non-standard steel or alloy shapes from plate of the specified material. This would include angles, channels, tees, H sections, rectangular or square tube, etc. Generally this is due to the required material not being readily available in the required quantity.

EYE RODS - Formed eyes on rod ends will not look exactly like catalog drawings. Generally some larger shop formed eyes will be tear drop shaped and be a little larger than the minimum inside diameter stated in some catalogs. The following eye opening widths work well and will accommodate the largest pipe hanger bolt size:

ROD SIZE, INCHES	EYE WIDTH, INCHES
3/8 & 1/2	3/4
5/8	1
3/4	1-1/8
7/8	1-1/2
1	1-7/8
1-1/4	2-1/8
1-1/2	3+/-

TURNBUCKLES - One end of every turnbuckle has left-hand threads. This is a must for it to work. So don't forget to order a Fig. 19CR change rod or a Fig. 22L left-hand eye rod for every turnbuckle you order.

ORDERING INFORMATION

Gulf State Hangers will be pleased to process your inquiry or order regardless of the manufacturers figure numbers you use.

The Hanger item Name, Figure Number, and Size is all of the information needed to order hangers from most vendors. With Gulf State Hangers you have choices other than plain black for hangers. Most of the hangers in the GSH Catalog give a choice of stainless steel or carbon steel. In addition to the Hanger Name, Figure Number, and Pipe or Rod Size you must specify the material. If your choice is stainless steel and more corrosion resistance than type 304 or 18-8 stainless is required for your facility, then you must specify the grade or type material desired. The GSH stainless steel inventory is primarily type 304. Our inventory of type 316 items is limited. Most items are available in type 316 on special order. If your choice is carbon steel you can have many items Plain Black, Zinc Plated, Hot-Dip Galvanized, or Painted to your specification. Hot-Dip Galvanized is more economical than most multi-coat paint systems. Chances are the HDG items you need will be in stock at Gulf State Hangers.

PLASTIC COATED AND COPPER COATED HANGERS

A few popular Plastic Coated hangers are included in this catalog.

All hanger items shown with plastic or copper coatings in other manufacturers catalogs are available from Gulf State Hangers with the coating. The demand for these items is so small that we did not use catalog space to include all of them.

ENGINEERED HANGERS

SWAY BRACES, SWAY STRUTS, CONSTANT SUPPORTS, VIBRATION CONTROL UNITS, ENGINEERED SPRING HANGERS, and HYDRAULIC SHOCK AND SWAY STRUTS are referred to as Engineered Hangers. Gulf State Hangers does welcome inquires on these items. For information on selecting and ordering these items we refer you to the various manufacturers catalogs. Give us a call, or send us a Fax when you have your selections made.

We welcome request for Gulf State Hangers / Grinnell Figure Number Conversion Listings.

GULF STATE HANGERS
AND
SUPPORTS MANUFACTURERS

2002 CATALOG INDEX

FIGURE	ITEM NAME	FINISHES AVAILABLE FROM GSH
1	FLAT WASHER, STEEL	BLK/HDG/SS/PLT
2	LOCK WASHER, STEEL	BLK/HDG/SS/PLT
3	ROD COUPLING, STEEL W/SIGHT HOLE	BLK/HDG/SS/PLT
3E	ROD COUPLING, STEEL WO/SIGHT HOLE	BLK/HDG/SS/PLT
3R	ROD COUPLING, STEEL REDUCING	BLK/HDG/SS/PLT
4	HEX NUT, RH HEAVY	BLK/HDG/SS/PLT
5	MACHINE BOLT, W/HEAVY NUT	BLK/HDG/SS/PLT
6	BEVEL WASHER, MI	BLK
7	SQUARE WASHER STEEL PLATE - HEAVY	BLK/HDG/SS
8	SHEAR LUG, RISER	CS/SS/ALLOY
10	SPRINKLER U-HOOK	BLK/HDG/SS
11	SWING ROD FITTING - M/F	BLK/SS
12	SWING ROD FITTING - F/F	BLK/SS
13	U-BOLT, WITH ANCHOR CHAIR	BLK/HDG/SS
14	U-BOLT, STD W/4 HEX NUTS	PLT/HDG/SS
14BS	U-BOLT STRAP	BLK/HDG/SS
14C	U-BOLT, STD W/4 HEX NUTS PLAS.COAT.	BLK/HDG/SS
14CI	U-BOLT, FOR CAST IRON PIPE	BLK/HDG/SS
14S	U-BOLT, NON-STANDARD	CUSTOM
15	U-BOLT W/ANGLE BASE	CUSTOM
17	U-BOLT W/ FORMED FLAT BAR LINER	CUSTOM
18	ROD, ALL THREAD - RH ONLY	BLK/HDG/SS/PLT
19	ROD, MACHINE THREADED BE RH	BLK/HDG/SS
19CR	CHANGE ROD THREADED RH/LH	BLK/HDG/SS
19RR	ROD, PLAIN ROUND	BLK/HDG/SS
20	J-ROD, BEAM HOOK	BLK/HDG/SS
21	EYE ROD, NOT WELDED RH	BLK/HDG/SS
21L	EYE ROD, NOT WELDED LH	BLK/HDG/SS
22	EYE ROD, RH WELDED	BLK/HDG/SS
22L	EYE ROD, LH WELDED	BLK/HDG/SS
23	LINKED EYE RODS, NOT WELDED RH	BLK/HDG/SS
23L	LINKED EYE RODS, NOT WELDED RH/LH	BLK/HDG/SS
23W	LINKED EYE RODS, WELDED RH	BLK/HDG/SS
23WL	LINKED EYE RODS, WELDED RH/LH	BLK/HDG/SS
24WP	ANCHOR BOLT W/WASHER PLATE	BLK/HDG/SS
24J	ANCHOR BOLT W/J-HOOK	BLK/HDG/SS
24S	ANCHOR BOLT PER CUSTOMER DRAWING	CUSTOM
25	TURNBUCKLE, FS OR SS	BLK/HDG/SS/PLT
25F	TURNBUCKLE, FABRICATED	BLK/HDG/SS
26	CLEVIS, FS	BLK/HDG/SS/PLT
26CP	CLEVIS PIN ONLY	BLK/HDG/SS

INDEX, CONTIUES

FIGURE	ITEM NAME	FINISHES AVAILABLE FROM GSII
26P	CLEVIS, FS W/PIN	BLK/HDG/SS/PLT
27	CHANNEL TRAPEZE - BACK TO BACK	BLK/HDG/SS
28	STRUCTURAL TUBE TRAPEZE	BLK/HDG/PAINT
29	SIDE BEAM CLIP ANGLE	BLK/HDG/SS/MI
30	ANGLE BRACKET	BLK/HDG/SS
31-2	TRAPEZE ANGLE, 2-HOLES	BLK/HDG/SS
31-3	TRAPEZE ANGLE, 3-HOLES	BLK/HDG/SS
31-4	TRAPEZE ANGLE, 4-HOLES	BLK/HDG/SS
32	CEILING PLATE - ROD THREADS	BLK/HDG/SS
33	CEILING PLATE - PIPE THREADS	BLK/HDG/SS/MI
34	CEILING FLANGE- ROD THREADS	BLK/HDG/SS/MI
35	CEILING FLANGE - PIPE THREADS	BLK/HDG/SS
36	WELDLESS EYE NUT, FS OR SS	BLK/HDG/SS/PLT
36L	WELDLESS EYE NUT, FS - LH	BLK/HDG/PLT
37	C-CLAMP, MI BEAM TOP 1 1/2" THROAT	BLK/PLT
37A	C-CLAMP, MI BEAM BOTTOM % THROAT	PLT
37X	C-CLAMP, RETAINING CLIP ONLY	BLK/SS
37B-CS	C-CLAMP, CS BEAM BOTTOM % THROAT	BLK
37B-EG	C-CLAMP, EG CS BEAM BOTTOM % THROAT	PLT
37B-SS	C-CLAMP, SS BEAM BOTTOM% THROAT	304SS
38	ADJUSTABLE BEAM CLAMP	BLK/HDG/SS
39	WELDED BEAM ATTACHMENT W/ PIN	BLK/HDG/SS
40	WEDED BEAM ATTACHMENT W/O PIN	BLK/HDG/SS
41	TOP BEAM CLAMP (J-BAR)	BLK/HDG/SS
42	OFFSET BEAM CLAMP	BLK/HDG/SS
43	CLOSE BEAM CLAMP	BLK/HDG/SS
44	I-BEAM CLAMP	BLK/HDG/SS
45	EXTENDED BEAM CLAMP	BLK/HDG/SS
46	DOUBLE ANGLE BEAM ATTACHMENT	BLK/HDG/SS
48	STRAIGHT J-HOOK HANGER	BLK/HDG/SS
49	OFFSET J-HOOK HANGER	BLK/HDG/SS
50	PIPE SADDLE W/ADJUSTABLE ROD SUPPORT	BLK/HDG/SS
50U	PIPE SADDLE W/U-BOLT AND ADJ. ROD SUPPORT	BLK/HDG/SS
51A	PIPE SUPPORT ADJUSTER	BLK/HDG/SS
51AWB	PIPE STANCHION - ADJUSTABLE WELDED	BLK/HDG/SS
51 WBS	PIPE STANCHION - WELDED BASE	BLK/HDG/SS
51TBS	PIPE STANCHION- THREADED BASE	BLK/HDG/SS
52	PIPE SADDLE WITH COUPLING	BLK/HDG/SS
52U	PIPE SADDLE WITH COUPLING AND U-BOLT	BLK/HDG/SS
53	PIPE SADDLE WITH SUPPORT STEM	BLK/HDG/SS
53A	PIPE SADDLE WITH ADJUSTER	BLK/HDG/SS
53AU	PIPE SADDLE WITH ADJUSTER AND U-BOLT	BLK/HDG/SS
53U	PIPE SADDLE WITH SUPPORT STEM AND U-BOLT	BLK/HDG/SS
54	WALL BRACKET PIPE SUPPORT	BLK/HDG/SS
56	STEEL BRACKET - LIGHT LOADS	BLK/HDG/SS
57L	LIGHT WELDED BRACKET	BLK/HDG/SS

INDEX. CONTINUES

FIGURE	ITEM NAME	FINISHES AVAILABLE FROM GSH
57M	MEDIUM WELDED BRACKET	BLK/HDG/SS
57H	HEAVY WELDED BRACKET	BLK/HDG/SS
60	ADJUSTABLE CLEVIS HANGER-MEDIUM	BLK/HDG/SS
60C	ADJUSTABLE CLEVIS HANGER-PLASTIC COATED	BLK/HDG/SS
60CI	ADJUSTABLE CLEVIS HANGER FOR IRON PIPE	BLK/HDG/SS
60-FP	ADJUSTABLE CLEVIS HANGER W/NFPA HOLE SIZE	BLK/HDG/SS
62	ELONG. CLEVIS HGR FOR INSUL. PIPE TO 650F	BLK/HDG/SS
62A	ELONG. CLEVIS HGR FOR INSUL. PIPE TO 1050F	ALLOY
64	ANGLE BOTTOM CLEVIS FOR PLASTIC PIPE	BLK/HDG/SS
66	PEAR SHAPE HANGER	BLK/HDG/SS
66C	PEAR SHAPE HANGER - PLASTIC COATED	BLK/HDG/SS
66-FP	PEAR SHAPE W/NFPA HOLE SIZE	BLK/HDG/SS
70P	CLAMP, LT. WT. 1-HOLE PIPE SIZE	PLT/SS
70T	CLAMP, LT. WT. 1-HOLE TUBE SIZE	PLT/SS
71L	RING & BOLT LT. WT. CLAMP	BLK/HDG/SS
71M	RING & BOLT MED. WT. CLAMP	BLK/HDG/SS
73A	CAST IRON PIPE ROLL - LONG	CI
73B	CAST IRON PIPE ROLL - SHORT	CI
75	ROLL CHAIR W/2-BOLT STEEL BASE & CI ROLL	BLK/HDG
75SS	STAINLESS ROLL CHAIR W/2-BOLT SS BASE	304/316L
75XH	HEAVY SS ROLL CHAIR W/2-BOLT SS BASE	304/316
76	CAST IRON PIPE ROLL STAND	BLK/HDG
76SS	STAINLESS PIPE ROLL STAND	304/316L
76XH	HEAVY STAINLESS PIPE ROLL STAND	304/316L
77	C.I. ROLL HANGER FOR 2-ROD SUPPORT=	BLK/HDG
77SS	STAINLESS ROLL HANGER- 2 ROD SUPPORT	304/316
77XH	HEAVY STAINLESS ROLL FOR 2-ROD SUPPORT	304/316
77A	CAST IRON ADJUSTABLE ROLL SOCKET	BLK/HDG
78	C.I. ADJUSTABLE ROLL SUPPORT WITH 2-RODS	BLK/HDG
78SS	STAINLESS ADJ ROLL SUPPORT W/2-RODS	304/316
78XH	HEAVY STAINLESS ADJ ROLL SUPPORT W/2-RODS	304/316
79	ROLL, CI ADJ W/STL YOKE FOR SINGLE ROD	BLK/HDG
79SS	ROLL, ADJ W/YOKE ALL SS FOR SINGLE ROD	304/316
79XH	HEAVY ROLL, W/YOKE ALL SS FOR SINGLE ROD	304/316
80	CLAMP, 2-BOLT MEDIUM	BLK/HDG/SS
80-1	2-BOLT CLAMP W/ONE LONG EAR	BLK/HDG/SS
82	CLAMP, 2-BOLT HEAVY	BLK/HDG/SS
83	CLAMP, MEDIUM RISER/EXTENSION	BLK/HDG/SS
83-1	OFFSET RISER CLAMP - MEDIUM	BLK/HDG/SS
83C	CLAMP, MED RISER/EXT. -PLASTIC COATED	BLK/HDG/SS
83CI	CLAMP, MED RISER/EXTENSION FOR CI PIPE	BLK/HDG/SS
84	CLAMP, 4-BOLT RISER STD	BLK/HDG/SS
85	CLAMP, 4-BOLT, RISER NON-STD	BLK/HDG/SS
86	CLAMP, 3-BOLT	BLK/HDG/SS
86A	CLAMP, 3-BOLT CHROME MOLY	ALLOY
86H	CLAMP, 3-BOLT HEAVY DUTY	BLK/HDG/SS

INDEX, CONTINUES

FIGURE	ITEM NAME	FINISHES AVAILABLE FROM GSH
88	CLAMP, MARINE EXTENDED	BLK/HDG/SS
88A	CLAMP, OFFSET	BLK/HDG/SS
90	SIDE LOADING HANGER	BLK/HDG/SS
99	PIPE COVERING PROTECTION SADDLES	BLK/HDG/SS/ALLOY
100	INSULATION PROTECTION SHIELD, 180 DEGREE	BLK/HDG/SS
100S	SHIELDS MADE TO CUSTOMER ORDER	CUSTOM
101	180 DEG. SHIELD W/RUBBER LINING	BLK/HDG/SS
102	360 DEG. SHIELD W/ CLAMPS	BLK/HDG/SS
103	360 DEG. RUBBER LINED SHIELD W/ CLAMPS	BLK/HDG/SS
104	180 DEG. SHIELD W/ CLAMPS	BLK/HDG/SS
105	180 DEG. RUBBER LINED SHIELD W/ CLAMPS	BLK/HDG/SS
106	90 DEG. PIPE WEAR SHIELD	BLK/HDG/SS
106A	120 DEG. PIPE WEAR SHIELD	BLK/HDG/SS
106B	150 DEG. PIPE WEAR SHIELD	BLK/HDG/SS
106C	180 DEG. PIPE WEAR SHIELD	BLK/HDG/SS
106TB	TURTLEBACK REINF. SHIELD FOR ELBOWS	SS
110E	ELBOW ANCHOR SUPPORT - WELDED	CUSTOM
110P	PIPE ANCHOR SUPPORT - WELDED	CUSTOM
111A	SHOE SUPPORT, SINGLE STEM W/CRADLE	BLK/HDG/SS
111B	SHOE SUPPORT, DBL. STEM W/CRADLE	BLK/HDG/SS
111C	SHOE SUPPORT, CUSTOM	CUSTOM
112	SHOE SUPPORT, SINGLE TEE	BLK/HDG/SS
113	SHOE SUPPORT W/SGL. STEM TEE & 1 CLAMP	BLK/HDG/SS
114A	SHOE SUPPORT W/SGL. STEM TEE & 2 CLAMPS	BLK/HDG/SS
114B	SHOE SUPPORT W/DBL. STEM TEE & 2 CLAMPS	BLK/HDG/SS
115	HOLD DOWN CLAMP W/BOLT HOLES -MEDIUM	BLK/HDG/SS
116	HOLD DOWN ANCHOR CLAMP – HEAVY	BLK/HDG/SS
116BP	BASE PLATE FOR HOLD DOWN ANCHOR CLAMP	BLK/HDG/SS
118	SPRINKLER SHORT CLIP	BLK/HDG/SS
124	2-BOLT CLAMP WITH ROD COUPLING WELDED ON	BLK/HDG/SS
125	2-BOLT CLAMP WITH ROD COUPLING AND BASE	BLK/HDG/SS
126	HALF V & HALF ROUND PIPE CLAMP	BLK/HDG/SS
127	HALF V & HALF ROUND CLAMP W/ROD COUPLING	BLK/HDG/SS
130	RIGHT ANGLE PIPE OR CONDUIT CLAMP	PLATED
131	PARALLEL PIPE OR CONDUIT CLAMP	PLATED
132	CONDUIT CLAMP	SS
133	STRUT CLAMP PIPE HANGER	HDG/SS/PLT
140	SQUARE WASHER W/ROUND HOLE – LIGHT	BLK/HDG/SS
141	SQUARE WASHER WITH SQUARE HOLE	BLK/HDG/SS
142	SQUARE WASHER WITHOUT HOLE - (HARD SLIM)	BLK/HDG/SS
143	ROCKER WASHER ASSEMBLY	ALLOY
ISO	FLANGED COMPONENT HANGER - HORIZ. PIPE	BLK/HDG/SS
151	FLANGED COMPONENT HANGER - VERTICAL PIPE	BLK/HDG/SS
152	PIPE FLANGE OFF-CENTER SUPORT	BLK/HDG/SS
152C	PIPE FLANGE CENTER SUPPORT	BLK/HDG/SS

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FIGURE	ITEM NAME	FINISHES
		AVAILABLE FROM GSH
153S	LINED SHOE SUPPORT W/OUT TOP FOR INSULATED FRP PIPE	CUSTOM
153G	LINED SHOE GUIDE W/2 TOP STRAPS FOR INSULATED FRP PIPE	CUSTOM
153C	LINED SHOE ANCHOR FOR INSULATED FRP	CUSTOM
154AB	360 DEG LINED ANCHOR SHOE FOR FRP PIPE	CUSTOM
155	PEAR SHAPED HANGER W/RUBBER LINED	CUSTOM
156	CLEVIS HANGER WITH RUBBER LINED SHIELD	CUSTOM
157	RUBBER LINED 4-BOLT RISER SUPPORT CLAMP	CUSTOM
158G	RUBBER LINED 2-BOLT RISER GUIDE CLAMP	CUSTOM
158S	RUBBER LINED 2-BOLT RISER SUPPORT CLAMP	CUSTOM
160	RUBBER LINED CLAMPS FOR FRP PIPE 3" - 4"	CUSTOM
161	RUBBER LINED CLAMPS FOR FRP PIPE 6" -10"	CUSTOM
162	RUBBER LINED CLAMPS FOR FRP PIPE 12" -18"	CUSTOM
163	RUBBER LINED CLAMPS FOR FRP PIPE 20" - 24"	CUSTOM
164	RUBBER LINED CLAMPS FOR FRP PIPE 30" - 36"	CUSTOM
165	HANGING LUG FOR FIG 161 CLAMPS	CUSTOM
166	HANGING LUG FOR FIG 162 CLAMPS	CUSTOM
167	HANGING LUG FOR FIG 163 CLAMPS	CUSTOM
168	HANGING LUG FOR FIG 164 CLAMPS	CUSTOM
169	FIG 160/164 CLAMPS W/SUPPORT WELDING FIN	CUSTOM
170	FIG 160/164 CLAMPS W/ANCHOR SHOE BASE	CUSTOM
171	LINED SADDLE W/FIN FOR FRP PIPE 6" -	CUSTOM
172	LINED SADDLE W/FIN FOR FRP PIPE 12" -18"	CUSTOM
173	LINED SADDLE W/FIN FOR FRP PIPE 20" - 24"	CUSTOM
174	FIG 160/164 CLAMPS WITH SLIDING SHOE BASE	CUSTOM
175S	LINED SHOE SUPPORT W/OPEN TOP FOR FRP	CUSTOM
175GB	LINED SHOE GUIDE W/FULL TOP FOR FRP	CUSTOM
175GA	LINED SHOE GUIDE W/2 STRAP TOP FOR FRP	CUSTOM
176	WIDE LINED CLAMP FOR FRP PIPE	CUSTOM
176I	WIDE LINED CLAMP WANSULATION BAND FOR FRP PIPE	CUSTOM
176L	WIDE LINED CLAMP W/SIDE LUG FOR FRP PIPE	CUSTOM
176LI	WIDE LINED CLAMP W/LUG & INSULATION HOLES FOR FRP PIPE	CUSTOM
200	CONC. ANCHOR PLATE WALUG FOR FGD.	BLK/HDG/SS
201	CONC. ANCHOR PLATE W/WELD BEAM	BLK/HDG/SS
202	CONC. ANCHOR PLATE W/ROD ATTACHMENT	BLK/HDG/SS
220	ANGLE OR CHANNEL BEAM CLAMP	BLK/HDG/SS
230	BEAM CLAMP W/WELDLESS EYE NUT -	BLK/HDG
230L	BEAM CLAMP W/WELDLESS EYE NUT -	BLK/HDG
232	BEAM CLAMP W/ SWING NUT	BLK/HDG
233	STRUCTURAL WELDING LUG - SHORT	BLK/HDG/SS
233L	STRUCTURAL WELDING LUG - LONG	BLK/HDG/SS
235	TWO HOLE WELDING LUG	BLK

INDEX. CONTINUES

FIGURE	ITEM NAME	FINISHES AVAILABLE FROM GSH
240	HORIZONTAL TRAVELER- SGL ROLL	BLK/SS
250	PIPE WELDING LUG FOR LONG RADIUS ELBOW	BLK/HDG/SS
251	PIPE WELDING LUG FOR SHORT RADIUS ELBOW	BLK/HDG/SS
252	PIPE WELDING LUG FOR FIVE DIAMETER BEND	BLK/HDG/SS
253	PIPE WELDING LUG FOR VERTICAL PIPE RISER	BLK/HDG/SS
257	HORIZONTAL PIPE RESTRAINT - WELDED	BLK/HDG/SS
258	HORIZONTAL PIPE RESTRAINT - BOLTED	BLK/HDG/SS
259	VERT. RESTRAINT FOR HORIZ. PIPE - WELDED	BLK/HDG/SS
260	VERT. RESTRAINT FOR HORIZ. PIPE - BOLTED	BLK/HDG/SS
261	HORIZ & VERT RESTRAINT - WELDED	BLK/HDG/SS
262	HORIZ & VERT RESTRAINT - BOLTED	BLK/HDG/SS
270	ALLOY STEEL YOKE PIPE CLAMP - STANDARD	BLK
271	ALLOY STEEL YOKE PIPE CLAMP - HEAVY	BLK
	FIG 272-277 SOCKET CLAMP USE EXAMPLES	
272	SOCKET CLAMP, UNDERGROUNG - 2-BOLT	BLK/HDG/SS
273	SOCKET CLAMP, UNDERGROUNG - 4-BOLT	BLK/HDG/SS
274AB	SOCKET CLAMP WASHERS	BLK/HDG/SS
275	SOCKET CLAMP YOKE	BLK/HDG/SS
276	SOCKET CLAMP PLUG ANCHOR STRAP	BLK/HDG/SS
277	SOCKET CLAMP TEE ANCHOR STRAP	BLK/HDG/SS
285	PIPE ALIGNMENT GUIDE -1-CLAMP	BLK/HDG/SS
286	PIPE ALIGNMENT GUIDE - 2-CLAMPS	BLK/HDG/SS
287	TEE SHOE WITH TEFLON SLIDE PLATE	CUSTOM
288	LT. DUTY SPRING CUSHIONS SGL. ROD SUPPORT	PRIMED
289	SPRING CUSHIONS FOR 2-ROD HANGERS	PRIMED

ABBREVIATIONS USED IN THIS CATALOG

A, B, C, ...	Indicates 1st, 2nd, 3rd in a series
A	ADJUSTER, ADJUSTABLE, ALLOY, OR ANCHOR
ATR	ALL THREAD ROD
BLK	BLACK, PLAIN, OR NO FINISH
BP	BASE PLATE
BS	BASE STRAP
BOS/ TOS	BOTTOM OF STEEL/TOP OF STEEL
C	CENTER, COATED OR CORROSION RESISTANT
CI	CAST IRON
CP	CLEVIS PIN
CR	CHANGE ROD - LH/RH
CS	CARBON STEEL
CT	COPPER COATED
DI	DUCTILE IRON
E	END, EXCEPTION OR ELBOW EG ELECTRO-GALVANIZED
FAB	FABRICATE
FB	FLAT BAR
FOT/FOB	FLAT ON TOP/FLAT ON BOTTOM
FP	FIRE PROTECTION
FS	FORGED STEEL
FRP	FIBERGLASS REINFORCED PIPE
G	GUSSET OR GUIDE
H	HEAVY, HORIZONTAL OR HANGER
HDG	HOT-DIP GALVANIZED
L	LEFT, LIGHT, OR LONG
LH	LEFT HAND
M	MEDIUM OR MALE M/F MALE/FEMALE
MI	MALLEABLE IRON
MSS	MANUFACTURERS STANDARDIZATION SOCIETY
NFPA	NATIONAL FIRE PREVENTION ASSOCIATION
P	PIN OR PIPE
PLT	PLATED (generally zinc)
R	ROD, ROUND, OR REDUCING
RH	RIGID HANGER
RR	ROUND ROD (no threads)
S	SHORT, SPECIAL, OR STAMPED
S.D.	SPECIAL DESIGN
SH	SPRING HANGER
SS	STAINLESS STEEL
T	TUBE OR TUBING
TBS	THREADED BASE STANCHION
TB	TURTLE BACK
TBE/TOE	THREADED BOTH ENDS/THREADED ONE END
TOS	TOP OF STEEL
U	U-BOLT
V	VERTICAL
W	WELDED OR WITH
WBS	WELDED BASE STANCHION
W/O	WITHOUT
X	CROSSED, LINKED OR EXTRA
XH	EXTRA HEAVY

SPECIAL PRODUCTS

BY

GULF STATE HANGERS

DESCRIPTION	FIGURE NUMBERS
STAINLESS STEEL ITEMS:	
C-CLAMPS, SS	37B-SS
CLEVIS, FORGED SS	26
CLEVIS HANGERS, SS	60
INSULATION PROTECTION SHIELDS, SS	100-105
PEAR SHAPE HANGERS, SS	66
PIPE COVERING PROTECTION SADDLES, SS	99
PIPE ROLLS, SS	75SS, 75XH
	76SS, 76XH, 77SS, 77XH
	78SS, 78XH, 79SS, 79SS
RISER CLAMPS, SS	83
TURNBUCKLES, SS	25
U-BOLTS, SS	14
WEAR PLATES, SS	106
WELDLESS EYE NUTS, SS	36
CARBON OR STAINLESS STEEL ITEMS:	
SPECIAL SUPPORTS AND HANGERS FOR FRP PIPE - CUSTOM MADE	150-176
PIPE SUPPORT SHOES	111-114

PIPE SHOES ARE LIKE PEOPLE SHOES
THEY COME IN AN INFINITE NUMBER OF DESIGNS AND SIZES
GULF STATE HANGERS CAN MAKE THEM ALL

CUSTOM SUPPORTS MADE TO CUSTOMERS DRAWINGS

HOT-DIP GALVANIZING AND SPECIAL COATINGS WHEN SPECIFIED

DIMENSIONS—WEIGHTS

ROD/BOLT DIA.	FIG.1		FIG.4 WEIGHT PER 100
	O.D.	WEIGHT PER 100	
3/8	7/8	3	2
1/2	1-3/8	4	4
5/8	1-3/4	8	7
3/4	2	11	12
7/8	2-1/4	15	19
1	2-1/2	19	28
1-1/8	2-1/4	23	40
1-1/4	3	26	54
1-3/8	2-3/4	32	73
1-1/2	3-1/2	39	94
1-3/4	4	56	204
1-7/8	4-1/4	59	241
2	4-1/2	63	299
2-1/4	4-3/4	83	419
2-1/2	5	96	564
2-3/4	5-1/4	110	738
3	5-1/2	130	950
3-1/4	5-3/4	140	1194
3-1/2	6	150	1526

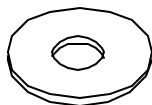
FLAT STEEL WASHER__FIG. 1

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
ROD OR BOLT DIAMETER
& FINISH.



AMERICAN STANDARD

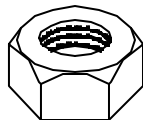
HEAVY HEX NUT W/
RIGHT HAND THREADS__FIG. 4

MATERIAL:

ASTM A-194

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
ROD OR BOLT DIAMETER
& FINISH.



DIMENSIONS (INCHES)

ROD SIZE	INSIDE DIAMETER	WIDTH OF STEEL	THICKNESS OF STEEL	APPROX. WEIGHT PER 100
3/8	7/16	.141	.094	7
1/2	9/16	.171	.125	15
5/8	11/16	.203	.156	26
3/4	13/16	.234	.188	43

STEEL LOCK WASHER__FIG. 2

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
ROD OR BOLT DIAMETER
& FINISH.



WEIGHT PER 100

BOLT LENGTH	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2
1-1/2	7	—	—	—	—	—	—	—	—	—
2	9	18	31	—	—	—	—	—	—	—
2-1/2	10	20	36	55	—	—	—	—	—	—
3	12	23	40	61	90	124	—	—	—	—
3-1/2	14	26	44	67	98	135	—	—	—	—
4	—	29	48	73	107	145	254	435	—	—
4-1/2	—	—	—	79	115	158	271	460	—	—
5	—	—	—	—	123	167	288	481	702	—
5-1/2	—	—	—	—	—	—	304	503	736	—
6	—	—	—	—	—	—	321	524	770	1052
7	—	—	—	—	—	—	—	—	827	1141
8	—	—	—	—	—	—	—	—	895	1230
9	—	—	—	—	—	—	—	—	—	1305
10	—	—	—	—	—	—	—	—	—	1394

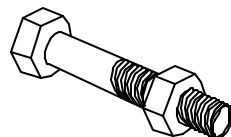
HEX HEAD MACHINE BOLT
W/HEAVY HEX NUT__FIG. 5

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
BOLT DIAMETER, LENGTH
& FINISH.



PHONE: (251) 653-6228

GULF STATE HANGERS
AND
SUPPORTS MANUFACTURERS, INC.

FAX: (251) 653-5356

DIMENSIONS—LOADS—WEIGHTS

ROD SIZE	MAXIMUM RECOMMENDED LOAD, LB.■	WGT. (APPROX.) LBS. EACH	D	L
1/2	1130	.12	3/4	1-1/2
5/8	1810	.24	15/16	1-7/8
3/4	2710	.42	1-1/8	2-1/4
7/8	3770	.66	1-5/8	2-5/8
1	4960	1.0	1-1/2	3
1-1/4	8000	1.9	1-7/8	3-3/4
1-1/2	11630	3.3	2-1/4	4-1/2
1-3/4	15700	6.2	2-3/4	5-1/4
2	20700	9.0	3-1/8	6
2-1/4	27200	12.7	3-1/2	6-3/4
2-1/2	33500	17.2	3-7/8	7-1/2
2-3/4	41580	22.7	4-1/4	8-1/4
3	50580	29.2	4-5/8	9
3-1/4 ●	60480	36.9	5	9-3/4
3-1/2 ●	71280	45.8	5-3/8	10-1/2
3-3/4 ●	82890	56.0	5-3/4	11-1/4
4 ■	95400	67.7	6-1/8	12
4-1/4 ●	109000	80.8	6-1/2	12-3/4
4-1/2 ●	123000	95.6	6-7/8	13-1/2
4-3/4 ●	138000	112.1	7-1/4	14-1/4
5 ●	154000	130.4	7-5/8	15

● FURNISHED WITH 8 UN SERIES THREADS.

■ BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING

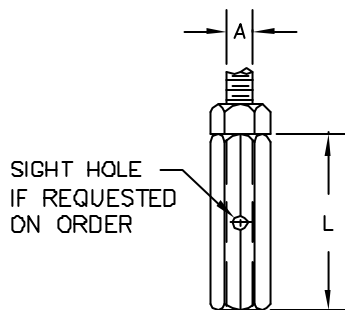
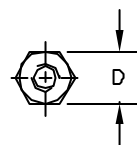


FIG. 3



STEEL ROD COUPLING W/RH THREADS
 -W/SIGHT HOLE____ FIG. 3
 -W.O./SIGHT HOLE____ FIG. 3E
 -REDUCING____ FIG. 3R

MATERIAL:
 CARBON STEEL OR STAINLESS STEEL
 ORDERING:
 SPECIFY NAME,
 FIGURE NUMBER, MATERIAL,
 ROD SIZE, FINISH AND
 W/SIGHT HOLE IF REQUIRED.

DIMENSIONS IN INCHES

ROD DIA.	SIZE	THICKNESS		APPROX. WEIGHT PER 100
		SMALL END	LARGE END	
3/8	1-1/4	5/32	11/32	9
1/2	1-1/4	5/32	11/32	9
5/8	1-1/2	5/32	13/32	15
3/4	1-1/2	7/32	15/32	16
7/8	2	7/32	9/16	33
1	2	7/32	9/16	31
1-1/8	2-1/4	9/32	5/8	49
1-1/4	2-1/2	5/16	23/32	68

BEVEL WASHER____ FIG. 6

MATERIAL:
 MALLEABLE IRON
 ORDERING:
 SPECIFY NAME,
 FIGURE NUMBER
 AND ROD SIZE

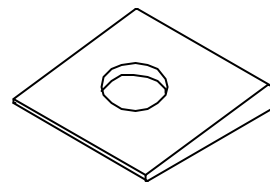


FIG. 6

DIMENSION—WEIGHTS

ROD SIZE	SIZE OF STOCK	HOLE DIA. H	WEIGHT PER 100
3/8	3 X 3 X 1/4	7/16	64
1/2	3 X 3 X 1/4	9/16	64
5/8	3 X 3 X 3/8	11/16	96
3/4	4 X 4 X 3/8	13/16	170
1	4 X 4 X 1/2	1-1/16	225
1-1/4	5 X 5 X 1/2	1-3/8	329
1-1/2	5 X 5 X 3/4	1-5/8	481
1-3/4	5 X 5 X 3/4	1-7/8	465
2	5 X 5 X 3/4	2-1/8	447
2-1/4	6 X 6 X 3/4	2-1/2	662
2-1/2	6 X 6 X 3/4	2-3/4	640
2-3/4	6 X 6 X 3/4	3	616
3	6 X 6 X 3/4	3-1/4	589
3-1/4	6 X 6 X 3/4	3-1/2	556
3-1/2	7 X 7 X 3/4	3-3/4	807
3-3/4	7 X 7 X 3/4	4	775
4	8 X 8 X 1	4-1/4	1411
4-1/4	8 X 8 X 1	4-1/2	1362
4-1/2	8 X 8 X 1	4-3/4	1311
4-3/4	9 X 9 X 1	5	1728
5	9 X 9 X 1	5-1/4	1681

WASHER PLATE__FIG. 7

MATERIAL:
CARBON STEEL
OR STAINLESS STEEL
ORDERING:
SPECIFY NAME,
FIGURE NUMBER,
ROD SIZE.
MATERIAL AND
FINISH

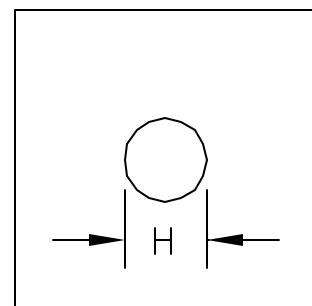


FIG. 7

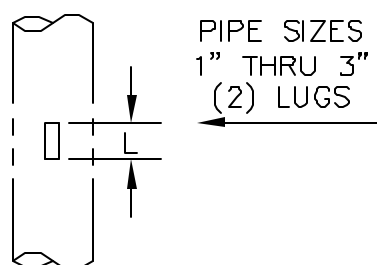
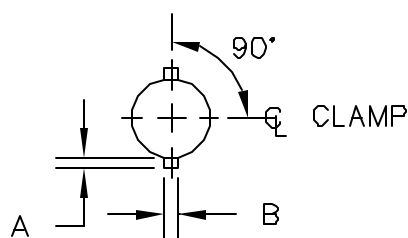
NOTE:
WASHER PLATE IS FOR USE ON
DOUBLE CHANNEL & TUBING TRAPEZE
SEE FIGURE 140 FOR SQUARE WASHERS
AND SHIMS

RISER SHEAR LUG_____FIG. 8

LUG SIZE	MAXIMUM RATED LOAD	PIPE SIZE	A	B	L	WEIGHT PER 100
1	1500	1 THRU 1-1/2	1/4	1/2	2	7
2	3000	2 THRU 3	1/4	3/4	2	11
3	5000	4 THRU 5	3/8	1	3	32
4	10000	6 THRU 10	1/2	1-1/2	3	64
5	15000	12 THRU 14	3/4	2	3	128
6	30000	16 THRU 24	1	2	4	227

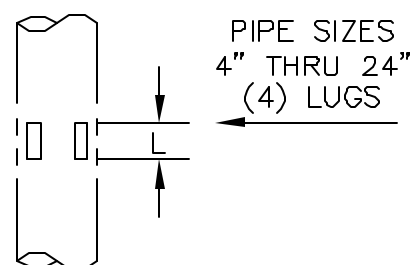
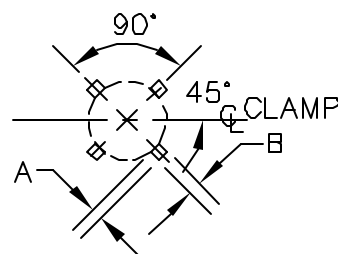
MATERIAL:
CARBON STEEL
ORDERING:
SPECIFY NAME, FIGURE NUMBER
AND SIZE NUMBER

NOTE:
SHEAR LUGS ARE FOR USE WITH
RISER CLAMPS



PIPE SIZES
1" THRU 3"
(2) LUGS

FIG. 8



PIPE SIZES
4" THRU 24"
(4) LUGS

SPRINKLER U-HOOK _____ FIG. 10

MATERIAL: CARBON STEEL OR STAINLESS STEEL
 ORDERING: SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
 HOOK LENGTH AND MATERIAL
 NOTE: LENGTH IS FROM CENTER OF EYE TO
 BOTTOM OF PIPE. SMALL SCREWS MAY
 REQUIRE USE OF WASHERS TO INSTALL.

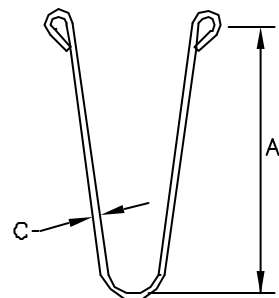


FIG. 10

DIMENSIONS (INCHES); WEIGHT PER 100

PIPE SIZES	3/4 THRU 2	2-1/2 THRU 3	3-1/2 THRU 4	5	6	8
DIM. C	5/16	3/8	1/2	5/8	5/8	3/4
SIZE SCREW	NO.16	3/8	1/2	1/2	1/2	5/8
MAX. LOAD,LB.	250	300	300	550	750	1100
LENGTH A INCHES	PIPE SIZES IN INCHES					
	3/4 THRU 2	2-1/2 THRU 3	3-1/2 THRU 4	5	6	8
6	36					
8	45					
10	54	82	159	273	278	
12	62	97	181	307	312	
14	71	107	204	343	347	531
16	80	120	226	378	381	582
18	88	132	248	411	416	632
20	100	147	271	447	450	663
24	108	166	315	481	520	762
30	134	213	382	532	618	908
36	160	251	448	584	722	1062

SWING ROD FITTING – WELDED

–MALE/FEMALE _____ FIG. 11

–FEMALE/FEMALE _____ FIG. 12

MATERIAL: CARBON STEEL OR STAINLESS STEEL
 ORDERING: SPECIFY NAME, FIGURE NUMBER, ROD SIZE,
 MATERIAL AND FINISH

DIMENSIONS–WEIGHTS

ROD SIZE	A	B	C	APPROX. WEIGHTS PER 100	
				FIG.11	FIG.12
3/8 1/2	1-3/8	1	3/8	30 57	28 53
5/8	1-5/8	1-1/4	1/2	112	104
3/4	2-1/8		5/8	196	179
7/8	3	2		355	318

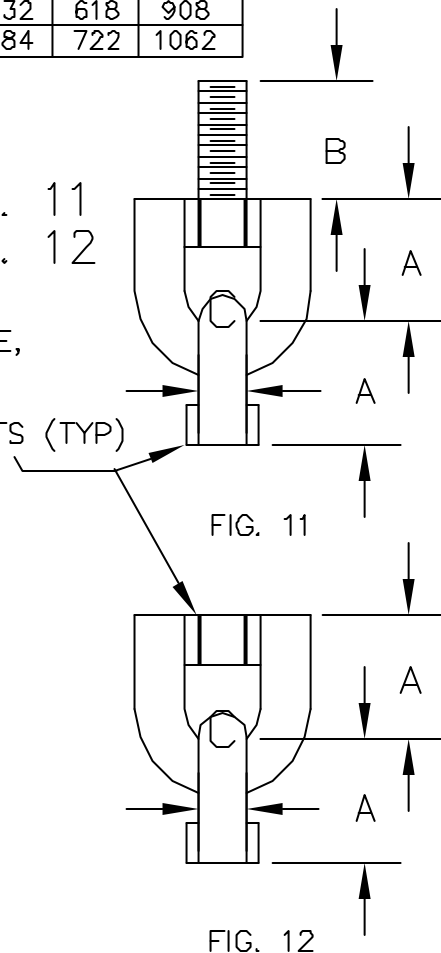


FIG. 12

DIMENSION(INCHES)

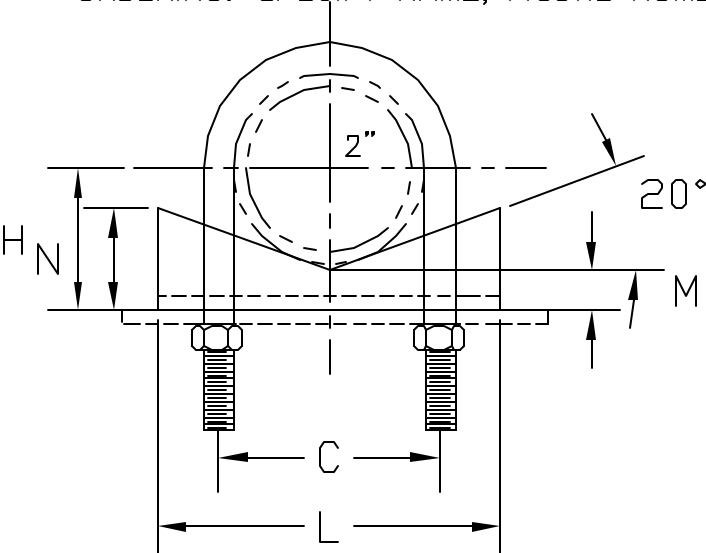
PIPE SIZE	L	H	C	M	N	S	K HOLE	CHAIR STOCK SIZE
1/2	2-3/8	1-1/4	1-3/16	13/16	1-1/4	C	5/16	3 X 4.1 LB. CHANNEL OR WELDMENT
3/4	2-5/8	1-5/16	1-3/8	3/4	1-1/4	C		
1	2-7/8	1-7/16	1-5/8	3/4	1-1/4	C		
1-1/4	3-1/8	1-1/2	2-1/16	5/8	1-3/16	C	7/16	
1-1/2	3-7/8	1-9/16	2-3/8	9/16	1-1/4	C		
2	4-1/4	1-3/4	2-13/16	1/2	1-1/4	C		
2-1/2	3	2-1/4	3-7/16	23/32	1-9/32	1-1/2	9/16	
3	3-1/2	2-1/2	4-1/16	5/8	1-9/32	2		
3-1/2	3-1/2	2-5/8	4-9/16	1/2	1-1/8			
4	4	2-13/16	5-1/16	13/32	1-1/8	2-1/2		
5	4	3-9/16	6-1/8	19/32	1-11/32			
6	5	3-15/16	7-3/8	13/32	1-5/16	3	13/16	
8	6	5-3/4	9-3/8	1-5/32	2-1/4	4		
10	6	6-3/4	11-5/8	1-1/32	2-1/8			
12	6	7-3/4	13-3/4	31/32	2-1/16			
14	7-1/2	8-5/16	15	27/32	2-7/32	5-1/2		
16	7-1/2	9-3/8	17	27/32	2-7/32			
18	7-1/2	10-5/16	19-1/8	23/32	2-3/32			
20	9	11-3/8	21-1/8	5/8	2-1/4	7		
24	9	13-3/8	25-1/8	1/2	2-1/8			

SEE FIGURE 14 FOR U-BOLT DIMENSIONS.

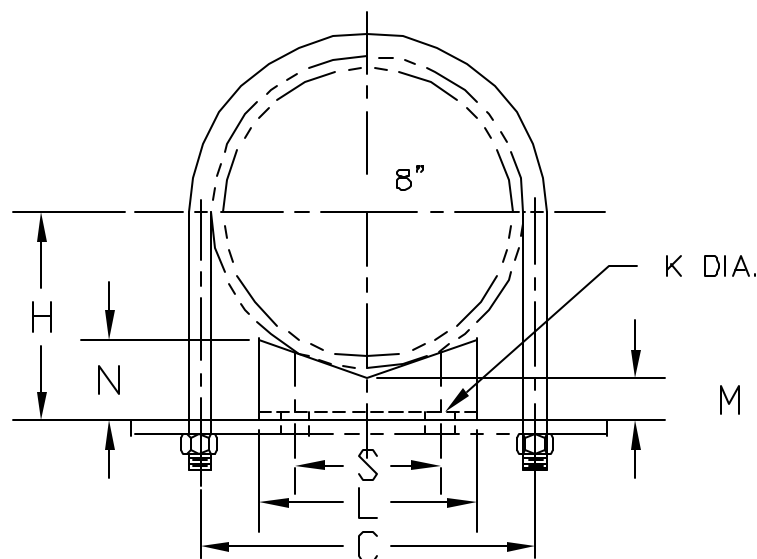
ANCHOR CHAIR WITH U-BOLT _____ FIG. 13

MATERIAL: CARBON STEEL OR STAINLESS STEEL

ORDERING: SPECIFY NAME, FIGURE NUMBER, PIPE SIZE, MATERIAL AND FINISH



1/2 THRU 2 PIPE



2-1/2 THRU 24 PIPE

STANDARD U-BOLT WITH 4-HEX NUTS _____ FIG. 14
 PLASTIC COATED _____ FIG. 14C
 FOR CAST IRON PIPE _____ FIG. 14CI
 U-BOLT, NON-STANDARD SPECIAL _____ FIG. 14S

FIG.
14
14C
14CI
14S

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
 MATERIAL AND FINISH

NOTE #1

IF NUTS ARE NOT REQUIRED SPECIFY
 "WITHOUT HEX NUTS"

NOTE #2

WHEN ORDERING FIG. 14S

SPECIFY NAME FIGURE NUMBER, PIPE SIZE,
 DIMENSIONS A, B, C, D, AND E
 MATERIAL AND FINISH, "WITH OR WITHOUT
 HEX NUTS"

NOTE #3

FIG. 14BS BASE STRAP MUST BE
 ORDERED SEPARATELY.

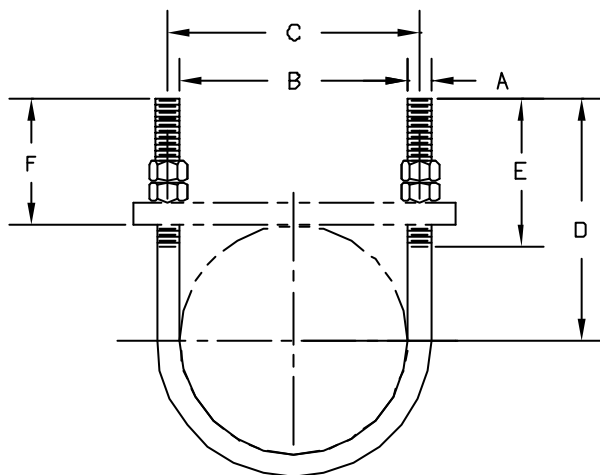


FIG. 14 & 14S

LOAD-WEIGHTS-DIMENSION(INCHES)

PIPE SIZE	ROD SIZE A	MAXIMUM RECOMMENDED LOAD, LB.		STEEL PIPE INSIDE RODS B	CI & DI PIPE INSIDE RODS B	STEEL PIPE CENTER TO CENTER OF RODS C	TANGENT LENGTH D	THREAD LENGTH E	EXTENSION PAST PIPE F
		650F	750F						
1/2	1/4	485	435	15-1/8	-	1-3/16	2-3/4	2-1/8	2-5/16
3/4	1/4	485	435	1-1/8		1-3/8	2-3/4	2-1/8	2-7/32
1	1/4	485	435	1-3/8		1-5/8	2-3/4	2-1/8	2-3/32
1-1/4	3/8	1220	1090	1-11/16	-	2-1/16	2-7/8	2-1/8	2-1/32
1-1/2	3/8	1220	1090	2		2-3/8	3	2-1/2	2-1/16
2	3/8	1220	1090	2-7/16		2-13/16	3-1/4	2-1/2	2-1/16
2-1/2	1/2	2260	2020	2-15/16	-	3-7/16	3-3/4	3	2-5/16
3	1/2	2260	2020	3-9/16	4	4-1/16	4	3	2-1/4
3-1/2	1/2	2260	2020	4-1/16	-	4-9/16	4-1/4	3	2-1/4
4	1/2	2260	2020	4-9/16	5	5-1/16	4-1/2	3	2-1/4
5	1/2	2260	2020	5-5/8	-	6-1/8	5	3	2-7/32
6	5/8	3620	3230	6-3/4	7-1/8	7-3/8	6-1/8	3-3/4	2-13/16
8	5/8	3620	3230	8-3/4	9-3/16	9-3/8	7-1/8	3-3/4	2-13/16
10	3/4	5420	4830	10-7/8	11-3/8	11-5/8	8-3/8	4	3
12	7/8	7540	6730	12-7/8	13-1/2	13-3/4	9-5/8	4-1/4	3-1/4
14	7/8	7540	6730	14-1/8	15-3/4	15	10-1/4	4-1/4	3-1/4
16	7/8	7540	6730	16-1/8	17-7/8	17	11-1/4	4-1/4	3-1/4
18	1	9920	8850	18-1/8	20	19-1/8	12-5/8	4-3/4	3-5/8
20	1	9920	8850	20-1/8	22-1/8	21-1/8	13-5/8	4-3/4	3-5/8
24	1	9920	8850	24-1/8	26-3/8	25-1/8	15-5/8	4-3/4	3-5/8
28	1	9920	8850	28-1/8	-	29-1/8	17-5/8	4-3/4	3-5/8
30	1	9920	8850	30-1/8	32	31-1/8	18-5/8	4-3/4	3-5/8
36	1	9920	8850	36-1/8	38-5/16	37-1/8	21-5/8	4-3/4	3-5/8

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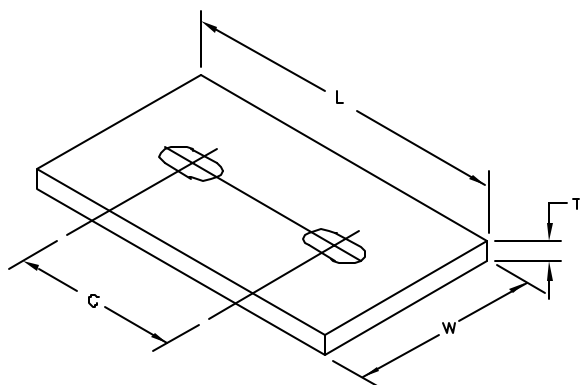


FIG. 14BS

U-BOLT STRAP_____ FIG. 14BS

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

DIMENSIONS(INCHES)

PIPE SIZE	ROD SIZE A	CENTER TO CENTER OF RODS C	L	W	T	HOLE SIZE
1/2 3/4 1	1/4 1/4 1/4	1-3/16 1-3/8 1-5/8	3-1/2	1-1/2	3/16	5/16 X 1/2
1-1/4 1-1/2 2	3/8 3/8 3/8	2-1/16 2-3/8 2-13/16	4-1/2 5 5	2	1/4	7/16 X 3/4
2-1/2 3 3-1/2	1/2 1/2 1/2	3-7/16 4-1/16 4-9/16	6 7 8	2 4 4	1/4 3/8 3/8	9/16 X 3/4
4 5 6	1/2 1/2 5/8	5-1/16 6-1/8 7-3/8	8 9 10-1/4	4	3/8	9/16 X 3/4 9/16 X 3/4 11/16 X 1
8 10 12	5/8 3/4 7/8	9-3/8 11-5/8 13-3/4	12-1/4 14-1/2 16-1/2	5	1/2	11/16 X 1 13/16 X 1 15/16 X 1-1/4
14 16 18	7/8 7/8 1	15 17 19-1/8	18 20 22	5 5 6	1/2 1/2 5/8	15/16 X 1-1/4 15/16 X 1-1/4 1-1/16 X 1-1/2
20 24 28 30 36	1 1 1 1 1	21-1/8 25-1/8 29-1/8 31-1/8 37-1/8	24-1/2 28-1/2 32-1/2 34-1/2 40-1/2	6	5/8	1-1/16 X 1-1/2

SEE FIG. 14 PAGE FOR U-BOLT DRAWING

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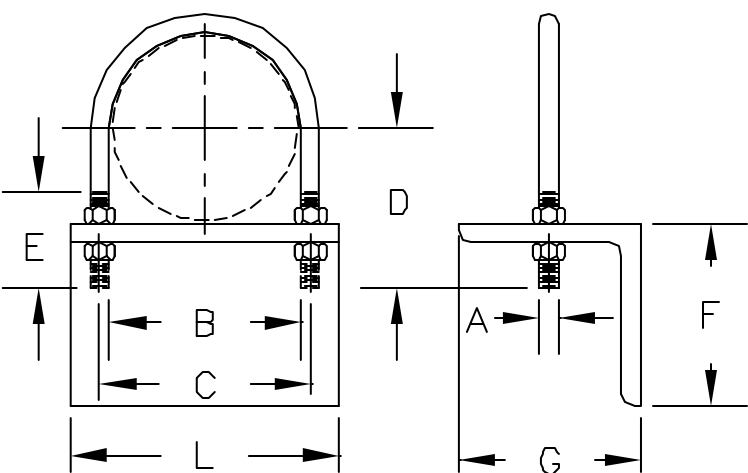


FIG. 15

U-BOLT WITH BASE ANGLE__FIG. 15

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, DIMENSIONS A, B,
C, D, E, F, G, AND L,
MATERIAL AND FINISH
"WITH HEX NUTS" OR
"WITHOUT HEX NUTS"

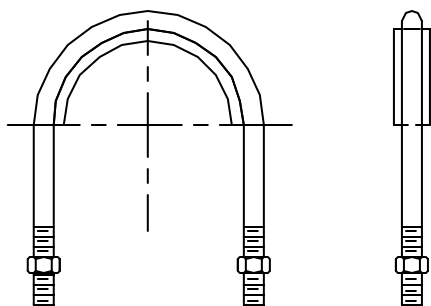


FIG. 17

U-BOLT WITH FORMED FLAT BAR
LINER WELDED IN_____FIG. 17

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER
PIPE O.D., MATERIAL AND FINISH

DIMENSIONS (INCHES)

PIPE SIZE	ROD SIZE	BAR SIZE
1/2 THRU 1	1/4	10 GA. X 1
1-1/4 THRU 2	3/8	10 GA. X 1
2-1/2 THRU 5	1/2	10 GA. X 1
6 THRU 8	5/8	3/16 X 1
10	3/4	1/4 X 1-1/4
12 THRU 16	7/8	1/4 X 1-1/4
18 THRU 36	1	1/4 X 1-1/2



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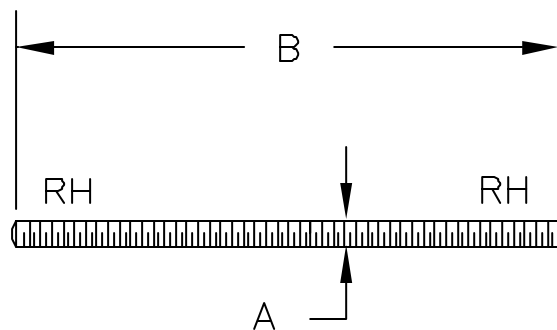


FIG.18

ALL THREAD ROD—RIGHT HAND THREAD ONLY__FIG.18

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD SIZE,
MATERIAL AND FINISH

NOTE:

MAXIMUM TEMPERATURE=750 DEGREES F.

ROD IS STOCKED IN 12 FOOT LENGTHS.

LOADS—WEIGHTS

ROD SIZE A	MAXIMUM RECOMMENDED LOAD LB ■ FOR CARBON STEEL RODS		WEIGHT (APPROX) LBS/FT
	650°F	750°F	
3/8	610	540	.30
1/2	1130	1010	.53
5/8	1810	1610	.84
3/4	2710	2420	1.2
7/8	3770	3360	1.7
1	4960	4420	2.3
1-1/4	8000	7140	3.6
1-1/2	11630	10370	5.1

■ USE 85% OF ABOVE LOADS FOR STAINLESS STEEL.



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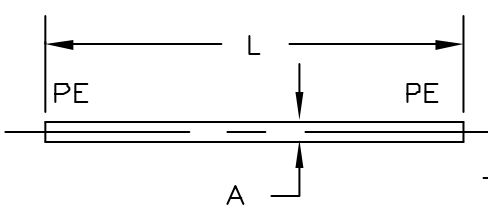


FIG.19RR

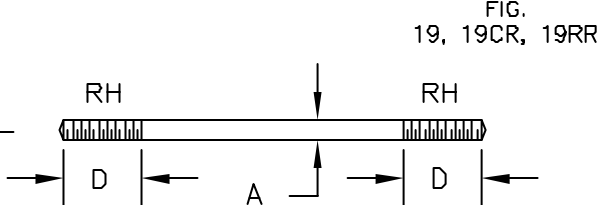


FIG.19

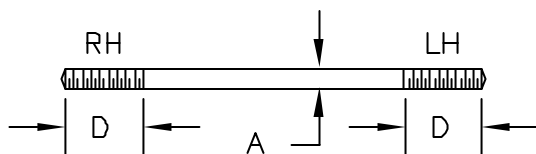


FIG.19CR

LOADS-STANDARD THREAD LENGTHS

ROD SIZE A	MAXIMUM RECOMMENDED LOAD LB FOR CARBON STEEL RODS		STANDARD ROD THREAD LENGTH D, ♦ IN
	650°F	750°F	
3/8	810	540	2-1/2
1/2	1130	1010	2-1/2
5/8	1810	1610	2-1/2
3/4	2710	2420	3
7/8	3770	3360	3-1/2
1	4960	4420	4
1-1/4	8000	7140	5
1-1/2	11630	10370	6
1-3/4	15700	14000	7
2	20700	18460	8
2-1/4	27200	24260	9
2-1/2	33500	29880	10
2-3/4	41580	37066	11
3	50580	45085	12
3-1/4*	60480	53906	13
3-1/2*	71280	63493	14
3-3/4*	82890	73855	15

ROD, MACHINE THREADED BOTH ENDS
BOTH ENDS, RIGHT HAND _____ FIG.19
CHANGE ROD, ONE END RH
ONE END LH _____ FIG.19CR
PLAIN ROUND ROD,
NO THREADS _____ FIG.19RR

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
ROD SIZE, MATERIAL AND FINISH
GIVE THREAD LENGTH IF NOT
STANDARD

NOTE:

MAXIMUM TEMPERATURE=750
DEGREES F. ONE FIG. 19C IS
REQUIRED FOR EACH TURNBUCKLE

- 3/8, 1/2 AND 5/8 INCH FIG.19 ROD IN LENGTHS OF 24 INCH OR SHORTER WILL BE FURNISHED AS CONTINUOUS THREAD ROD UNLESS ORDER STATES THAT ALL THREAD ROD IS NOT ACCEPTABLE

- * FURNISHED WITH 8 UN THREADS



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J-ROD BEAM HOOK _____ FIG. 20

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
ROD DIAMETER, HOOK LENGTH
AND FLANGE THICKNESS.

J-ROD MATERIAL AND FINISH

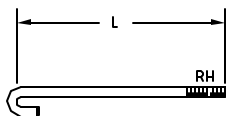
NOTE: HOOK LENGTH IS MEASURED
FROM THE END OF THE THREADED
END TO THE INSIDE OF THE HOOK

FIG. 20

APPROX. WEIGHT PER HUNDRED

LENGTH, INCHES	4	5	6	7	8	10	12
ROD. DIA. - 3/8	19	22	25	28	32	38	44
ROD. DIA. - 1/2	33	39	45	50	56	67	78
ROD. DIA. - 5/8	52	61	70	78	87	102	122
ROD. DIA. - 3/4	75	89	101	113	126	150	175
ROD. DIA. - 7/8	102	120	136	153	171	204	239

ANCHOR BOLT

- WITH PLATE _____ FIG. 24WP

- WITH J-HOOK _____ FIG. 24J

- SPECIAL _____ FIG. 24S

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
ROD DIAMETER, THREAD LENGTH,
DIMENSIONS B AND H, OR WASHER PLATE
DIMENSION, MATERIAL AND FINISH.

SPECIALS: MADE PER CUSTOMER DRAWING

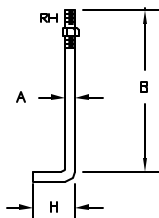
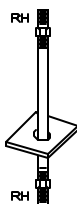


FIG. 24WP

FIG. 24J

DIMENSIONS IN INCHES

DIAMETER	APPROX. WEIGHT PER HUNDRED			
	3/8	1/2	5/8	3/4
B-6	28	52	81	119
B-8	34	63	99	144
B-10	40	74	116	169
B-12	46	85	134	194

STANDARD THREAD LENGTHS—LOADS

FIG. 21, 22 & 23

ROD SIZE A	STANDARD ROD THREAD LENGTH D, IN	EYE I.D. SEE NOTE	MAXIMUM RECOMMENDED LOAD, LB FOR CARBON STEEL RODS		
			FIG. 21 & 21L 23 & 23L	FIG. 23W & 23WL	FIG. 22 & 22L
			650°F (NOT WELDED)	650°F (WELDED)	750°F (WELDED)
3/8	2-1/2	3/4	240	610	540
1/2	2-1/2	3/4	440	1130	1010
5/8	2-1/2	1	705	1810	1610
3/4	3	1-1/8	1050	2710	2420
7/8	3-1/2	1-1/2	1470	3770	3360
1	4	1-7/8	1940	4960	4420
1-1/4	5	2-1/8	3120	8000	7140
1-1/2	6	3 +/-	4650	11630	10370
1-3/4	7	*	6380	15700	14000
2	8	*	8280	20700	18460
2-1/4	9	*	10900	27200	24260
2-1/2	10	*	13400	33500	29880

MATERIAL:
CARBON STEEL OR
STAINLESS STEEL
ORDERING:
SPECIFY NAME,
FIGURE NUMBER,
ROD SIZE,
ROD LENGTH,
MATERIAL AND
FINISH.
GIVE THREAD
LENGTH IF NOT
STANDARD.

NOTE:
SEE PAGE V FOR
SPECIAL NOTE ON
EYE RODS.

EYE RODS

LINKED EYE RODS

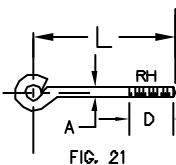


FIG. 21

NOT WELDED ____ FIG. 21
(MAX TEMP. 650°F)
RIGHT HAND

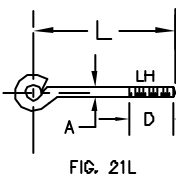


FIG. 21L

NOT WELDED ____ FIG. 21L
(MAX TEMP. 650°F)
LEFT HAND

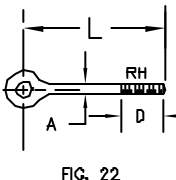


FIG. 22

WELDED ____ FIG. 22
(MAX TEMP. 750°F)
RIGHT HAND

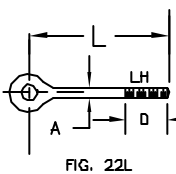


FIG. 22L

WELDED ____ FIG. 22L
(MAX TEMP. 750°F)
LEFT HAND

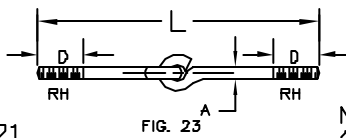


FIG. 23

NOT WELDED ____ FIG. 23
(MAX TEMP. 650°F)
RIGHT HAND

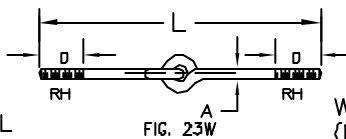


FIG. 23W

WELDED ____ FIG. 23W
(MAX TEMP. 750°F)
RIGHT HAND

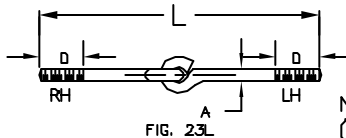


FIG. 23L

NOT WELDED ____ FIG. 23L
(MAX TEMP. 650°F)
1-LH, 1-RH

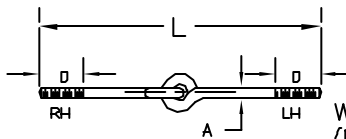


FIG. 23WL

WELDED ____ FIG. 23WL
(MAX TEMP. 750°F)
1-LH, 1-RH

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LOADS—WEIGHTS

ROD SIZE	MAXIMUM RATED LOAD AT 650°F	APPROX. WEIGHT PER 100
3/8	610	42
1/2	1130	85
5/8	1810	98
3/4	2710	145
7/8	3770	190
1	4960	260
1-1/4	8000	445
1-1/2	11630	640
1-3/4	15700	1100
2	20700	1490
2-1/4	27200	1980
2-1/2	33500	2693

TURNBUCKLE FIG. 25

MATERIAL:

FORGED STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
ROD SIZE, MATERIAL
AND FINISH

NOTE: STUB ENDS

SHOWN MUST BE

ORDERED SEPARATELY.

ONE FIG. 19CR CHANGE

ROD IS REQUIRED

W/E.A. TURNBUCKLE.

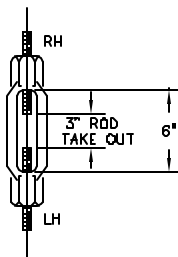


FIG.25

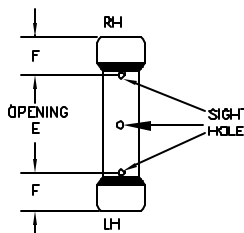


FIG.25F

FABRICATED TURNBUCKLE _____ FIG. 25F

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD SIZE,
OPENING LENGTH, MATERIAL AND FINISH.

NOTE:

SIZES 3/8 THRU 1 INCH AVAILABLE ON
SPECIAL ORDER.

LOADS—DIMENSIONS

ROD SIZE*	MAX. RATED LOAD AT 650°F	OPENING—E** (SPECIFY)	F
1-1/4 1-1/2 1-3/4	8000 11630 15700	6,12,18 OR 24	2-3/8
2 2-1/4 2-1/2	20700 27200 33500	6,12,18 OR 24	3-1/4
2-3/4 3 3-1/4	41600 50600 60500	6,12,18 OR 24	4
3-1/2 3-3/4 4	71260 82900 95500	6,12,18 OR 24	5
4-1/4 4-1/2 4-3/4 5	108900 123200 138400 154500	6,12,18 OR 24	7

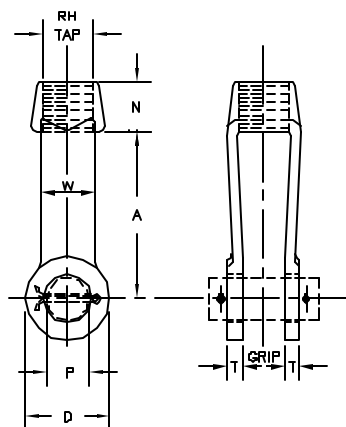
*UNC-2B THREAD SERIES FURNISHED FOR ROD SIZES THRU 3"
8UN-2B THREAD SERIES FURNISHED FOR 3-1/4" THRU 5"
ROD SIZES.

**ROD TAKE-OUT 1/2 E.

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FORGED STEEL CLEVIS
 -WITHOUT PIN_____FIG. 26
 -WITH PIN_____FIG. 26P
 -CLEVIS PIN ONLY_____FIG. 26CP

ORDERING:
 SPECIFY NAME, FIGURE NUMBER,
 ROD SIZE AND FINISH

FIG.26 & 26P

LOADS-DIMENSIONS-WEIGHTS

ROD SIZE	SIZE NO.	MAX. RATED LOAD AT 650°F	ROD TAKE OUT	A	D	N	PIN SIZE P	T	W	GRIP	APPROX. WEIGHT PER 100	
											FIG.26	FIG.26P
3/8 1/2 5/8	2	610 1130 1810	3	3-7/8	1-7/16	5/8	1/2 5/8 3/4	1/4	1-1/16	1/2 1/2 5/8	170 189 168	184 191 202
3/4 7/8	2-1/2	2710 3770	4	5	2	7/8	7/8 1	3/8	1-1/4	3/4 7/8	250 240	301 340
1 1-1/4	3	4980 8000	4	5	3	1-5/16	1-1/8 1-3/8	1/2	1-1/2	1 1-1/4	400 382	513 550
1-1/2 1-3/4	3-1/2 4	11830 15700	5	6	3-1/2 4	1-5/8 1-3/4	1-5/8 1-7/8	1/2	1-3/4 2	1-1/2	600 800	850 1288
2	5	20700	6	7	5	2-1/4	2-1/4	5/8	2-1/2	2-1/2	1600	2333
2-1/4 2-1/2	6	27200 33500	7	8	6	2-3/4	2-1/2 2-3/4	3/4	3	2-1/2	2600 2550	3505 3645
2-3/4 3	7	41600 50600	8	9	7	3	3 3-1/4	7/8	3-1/2	2-1/2	3600 3500	5001 5145
3-1/4* 3-1/2* 3-3/4* 4*	8	60500 71260 82900 95500	9	10	8	4	3-1/2 3-3/4 4 4-1/4	1-1/2	4	4	9000 8800 8600 8400	11591 11774 11984 12220

* FURNISHED WITH 8 UN SERIES THREADS



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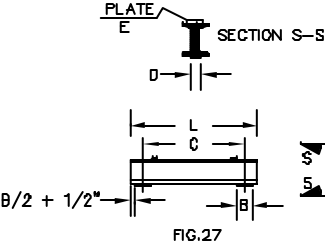


FIG. 27

CHANNEL TRAPEZE,
BACK TO BACK_____

FIG. 27

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER,
ROD SIZE, C DIMENSION AND FINISH

LOADS-DIMENSIONS-WEIGHTS

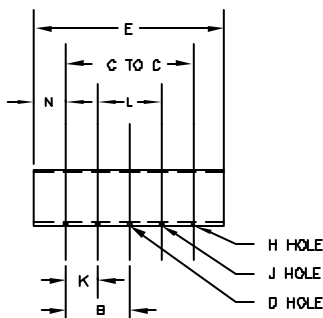
SIZE NUMBER	CHANNEL SIZE	WEIGHT PER FOOT	MAXIMUM RATED LOADS ⁽¹⁾ (KIPS) FOR C D F												MAX ⁽²⁾ ROD DIA.	MAX. D ⁽³⁾	PLATES-E	
			12	18	24	30	36	42	48	54	60	66	72	SIZE			WEIGHT	
3 4	C3X4.1 C4X5.4	8.2 10.8	9.2 18.1	8.1 10.7	4.5 8.0	3.8 6.3	2.9 5.2	2.5 4.4	2.1 3.8	1.8 3.3	1.6 2.8	1.4 2.6	1.2 2.3	1-1/4	2	1/4 X 1-1/2 X 4	1	
5 6	C5X6.7 C6X8.2	13.4 16.4	25.1 36.6	18.7 24.4	12.4 18.2	9.8 14.5	8.2 12.0	6.9 10.2	6.0 8.6	5.2 7.7	4.6 6.9	4.1 6.1	3.7 5.5	2	3	3/8 X 1-1/2 X 5	2	
8 10	C8X11.5 C10X15.3	23.0 30.6	— 68.2	45.4 75.3	33.8 50.3	27.0 44.9	22.4 37.2	18.0 31.7	15.5 27.0	14.0 24.4	13.0 21.8	11.7 18.6	10.6 17.8	2-3/4	4	1/2 X 2 X 6	4	
12 15	C12X20.7 C15X33.0	41.4 67.8	— —	— —	88.8 —	71.6 —	59.0 —	50.7 99.4	44.2 88.8	38.0 78.8	34.8 68.5	31.0 61.9	28.6 56.4	3	4	3/4 X 3 X 6	11	

NOTES:

(1) REFER TO FIG. 7 FOR DIMENSIONS AND WEIGHTS OF WASHER PLATE.

(2) VALUES LISTED ARE THOUSANDS OF POUNDS APPLIED AS CONCENTRATED LOAD AT CENTER OF CHANNELS.

(3) ACTUAL D WILL VARY WITH ROD SIZE AND WILL ALLOW A MINIMUM ROD SWING OF 4 DEGREES.



STRUCTURAL TUBE,
TRAPEZE_____

FIG. 28

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
SIZE NUMBER, C TO C DIMENSION
AND HOLE SIZE H. IF HOLES, H, J,
OR D ARE REQUIRED, SPECIFY
DIMENSIONS K AND L OR B

LOADS-DIMENSIONS(INCHES)

SIZE NUMBER	SIZE OF STRUCTURAL TUBING	MAX DIA. HOLE H, J AND D	C TO C = SPAN IN INCHES													
			C	N	18	20	22	24	28	28	30	36	42	48	54	60
1	1/4 X 2 X 2	1-1/8	1	1-1/2	21	23	25	27	29	29	31	33	39	—	—	—
2	1/4 X 3 X 3	1	1	1-1/2	21	23	25	27	29	29	31	33	39	—	—	—
3	3/16 X 4 X 3	1-5/8	1-1/2	2-1/2	23	25	27	29	31	31	33	36	41	47	53	66
4	1/4 X 4 X 4	1-7/8	2	2-5/8	23-1/4	25-1/4	27-1/4	29-1/4	31-1/4	33-1/4	35-1/4	41-1/4	47-1/4	53-1/4	69-1/4	85-1/4
5	1/4 X 6 X 4	2-3/8	2	3-3/8	24-3/4	28-3/4	28-3/4	30-3/4	32-3/4	34-3/4	36-3/4	42-3/4	48-3/4	54-3/4	60-3/4	68-3/4
6	1/4 X 8 X 4	2-7/8	2	4	26	28	30	32	34	36	38	44	50	56	62	68

SIZE NUMBER	MAXIMUM RECOMMENDED LOAD (LBS.) BASED ON C TO C DIMENSION**									
	18	20	22	24	28	28	30	36	42	48
1	1700	1500	1400	1300	1200	1100	1000	880	—	—
2	4900	4000	3600	3300	3100	2800	2700	2200	—	—
3	5800	5200	4800	4400	3900	3600	3500	2900	2500	1900
4	10200	9100	8300	7500	7000	6500	6100	5100	4300	3300
5	16000	14440	13100	12000	11100	10300	9600	8000	6800	5300
6	26800	24000	21800	20000	18400	17100	16000	13300	11400	8800

**BASES ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING

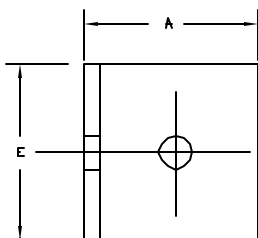


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LOADS-DIMENSIONS-WEIGHTS

ROD SIZE	MAX. RECOM. LOAD	A	C	B	E	HOLE DIA H	APPROX. WEIGHT PER 100
3/8 1/2	320 535	2	1/4	3/4	1-1/2 2-1/2	7/16 9/16	40 67
5/8	1125	3	3/8	1	3	11/16	185

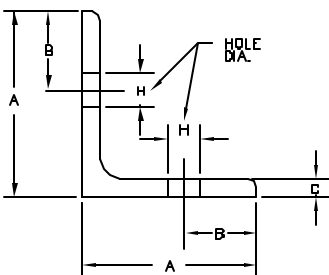


FIG. 29

SIDE BEAM CLIP ANGLE _____ FIG. 29

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

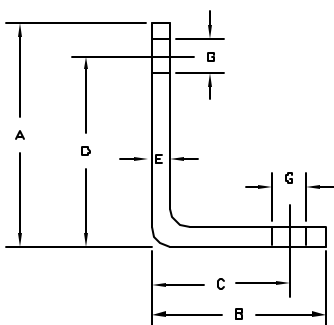
SPECIFY NAME, FIGURE NUMBER, ROD SIZE,
MATERIAL AND FINISH.

FIG. 30

ANGLE BRACKET _____ FIG. 30

MATERIAL:

FORMED CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD SIZE,
MATERIAL AND FINISH.

DIMENSIONS IN INCHES

ROD SIZE	MAX. RECOM. LOAD, LB.	A	B	C	D	STEEL E	HOLE G	APPROX. WEIGHT PER 100
3/8	180	3-5/8 4-5/8	2-5/8 3-5/8	2 3	3 4	1/4 X 1-1/4	7/16	53 71
1/2	390	3-3/4 4-3/4	2-3/4 3-3/4	2 3	3 4	3/8 X 1-1/2	9/16	92 123

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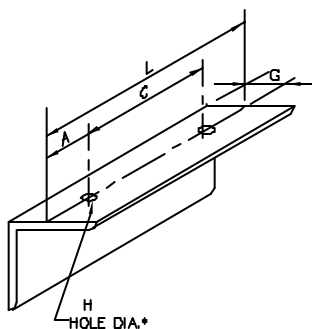


FIG. 31-2

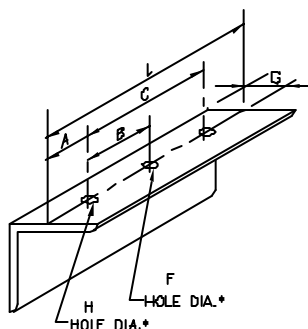


FIG. 31-3

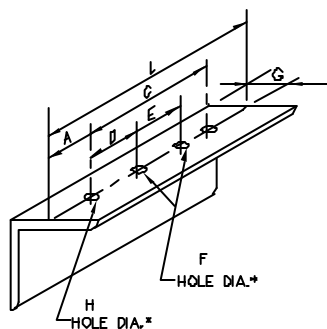


FIG. 31-4

TRAPEZE ANGLE—CARBON STEEL

- TWO HOLES _____ FIG. 31-2
 —THREE HOLES _____ FIG. 31-3
 —FOUR HOLES _____ FIG. 31-4

ORDERING:

FOR FIG. 31-2, SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER, A, C, H*, AND L AND FINISH. FOR FIG- 31-3, SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER, A, C, H*, L, B, AND F*, AND FINISH FOR FIG. 31-4, SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER, A, C, H*, L, D, E, AND F*, AND FINISH.

LOADS—DIMENSIONS—WEIGHTS

SIZE NUMBER	ANGLE SIZE	WEIGHT PER FOOT	8	12	18	24	30	36	42	48	MIN. A	MAX. HOLE DIA. H, F	G
1	2 X 2 X 1/4	3.2	900	630	440	330	260	220	190	160	1-1/2	11/16	1-1/8
2	3 X 3 X 1/4	4.9	1450	1180	900	710	580	500	430	380	1-1/2	13/16	1-3/4
3	3-1/2 X 3-1/2 X 3/8	8.5	3210	2520	1870	1460	1200	1010	870	760	2	1-3/8	2
4	4 X 4 X 1/2	12.8	5180	4150	3120	2470	2020	1710	1470	1290	2	1-5/8	2-1/2
5	5 X 5 X 1/2	16.2	6410	5470	4390	3620	3050	2620	2290	2023	2-1/2	1-7/8	3
6	6 X 6 X 1/2	19.6	7280	6490	5490	4710	4080	3580	3180	2840	2-1/2	2-1/8	3-1/2

*HOLE DIAMETER H AND F SHOULD BE SPECIFIED 1/16" GREATER THAN ROD DIAMETER FOR ROD SIZES THRU 1", AND 1/8" GREATER THAN ROD DIAMETER FOR ROD SIZES 1-1/4" AND LARGER.



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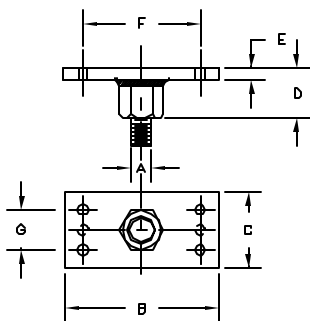


FIG. 32

CEILING PLATE

—ROD THREADS_____FIG. 32

—PIPE THREADS_____FIG. 33

MATERIAL:

FABRICATED,
CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE OR ROD SIZE,
MATERIAL AND FINISH

DIMENSIONS (INCHES)—LOADS

ROD SIZE A	MAXIMUM RECOMMENDED LOAD, LB.	B	C	D	E	F	G	HOLES	
								QUANTITY	SIZE
3/8 1/2	180	3-1/4 3-3/4	1-1/2	5/8 3/4	1/4 1/4	2-1/4	—	2	5/16
5/8 3/4	480	4-1/2 5	2-1/2	1 1-1/4	3/8 3/8	3-1/8 3-1/2	1-3/8	4	7/16

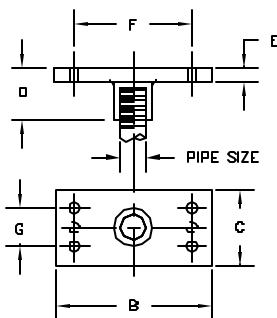
LOADS SHOWN ARE FOR INSTALLATION
WITH WOOD SCREWS.

FIG. 33

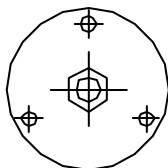
DIMENSIONS (INCHES)—LOADS

HALF COUPLING PIPE TAP A	MAXIMUM RECOMMENDED LOAD, LB.	B	C	D	E	F	G	HOLES	
								QUANTITY	SIZE
1/8 1/4 3/8	180 180 180	3-1/4 3-5/16 3-7/16	1-1/4	13/16 7/8 1	3/16 3/16 1/4	2-3/16 2-1/4 2-5/16	— — —	2 2 2	1/4 1/4 5/16
1/2 3/4	480 480	4-5/16 4-5/16	2-1/2	1-1/4 1-5/16	3/8 3/8	3-7/16 3-7/16	1-3/8 1-3/8	4 4	7/16 7/16

LOADS SHOWN ARE FOR INSTALLATION
WITH WOOD SCREWS.GULF STATE HANGERS
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CEILING FLANGE
 —ROD THREAD _____ FIG. 34
 —PIPE THREADS _____ FIG. 35

MATERIAL:
 FABRICATED, CARBON STEEL
 OR STAINLESS STEEL
 ORDERING:
 SPECIFY NAME, FIGURE NUMBER, PIPE OR
 ROD SIZE AND FINISH.

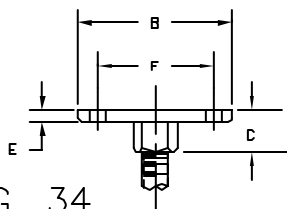


FIG. 34

DIMENSION (INCHES)—LOADS

ROD SIZE A	MAXIMUM PIPE SIZE	MAX. RECOM. LOAD, LB.	B	C	E	HOLE CIRCLE DIAM. F	HOLE SIZE
3/8	3/4 TO 2	425	3-1/4	5/8	1/4	2-0	5/16
1/2	2-1/2 TO 3-1/2	1050	4	3/4	1/4	2-7/8	5/16
5/8	4 TO 5	1220	4-3/4	1	3/8	3-3/8	7/16
3/4	6	1270	5-1/4	1-1/4	1/2	3-5/8	9/16

LOADS SHOWN ARE FOR
 INSTALLATION WITH WOOD SCREWS.

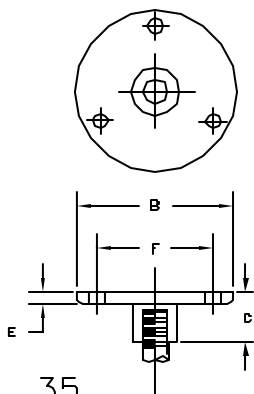


FIG. 35

DIMENSIONS (INCHES)

HALF COUPLING PIPE TAP A	MAXIMUM RECOMMENDED LOAD, LB.	B	C	E	HOLE CIRCLE DIA. F	SIZE
1/8	425	3-1/2	7/8	1/4	2-1/2	5/16
1/4	425	3-1/2	15/16	1/4	2-1/2	5/16
3/8	1050	4-1/4	1-1/8	3/8	3-1/8	7/16
1/2	1220	5	1-7/16	1/2	3-5/8	9/16
3/4	1220	5-1/2	1-1/2	1/2	3-7/8	9/16

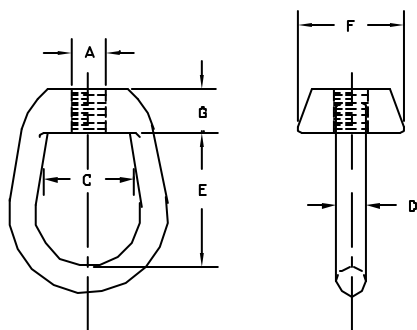
LOADS SHOWN ARE FOR
 INSTALLATION WITH WOOD SCREWS.



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WELDLESS EYE NUT
 -RIGHT HAND THREAD___FIG. 36
 -LEFT HAND THREAD___FIG. 36L

MATERIAL:
 FORGED STEEL OR STAINLESS STEEL
 ORDERING:

SPECIFY NAME,
 FIGURE NUMBER,
 ROD SIZE, MATERIAL AND FINISH.

NOTE:
 WHEN ORDERING 3/8" OR 1/2" ROD
 SIZE SPECIFY SIZE 1/2 OR SIZE 1.

FIG.36 & FIG36L

LOADS-DIMENSIONS-WEIGHTS

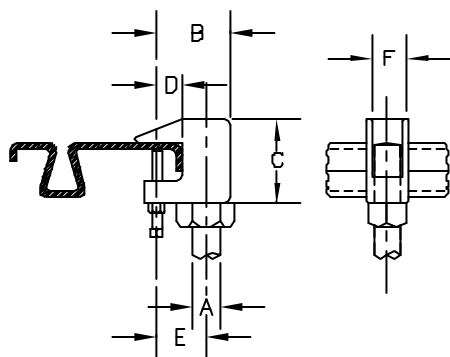
ROD SIZE A	SIZE NO.	MAX. RATED LOAD	ROD TAKE- OUT	MAX.PIN DIA. C	D	E	F	G	WEIGHT PER 100
3/8 1/2	1/2	610 1130	1-3/8	13/16	3/8	1-9/16	31/32	5/8	30
3/8 1/2 5/8 3/4	1	610 1130 1810 2710	1-1/2	1-3/16	1/2	2	1-3/8	11/16	63 63 62 60
7/8 1	2	3770 4960	2	1-11/16	3/4	2-5/8	1-15/16	1	170
1-1/4 1-1/2	3	8000 11630	2-1/2	1-13/16	1	3-3/8	3	1-1/4	364 345
1-3/4 2 2-1/4 2-1/2	4	15700 20700 27200 33500	4	4	1-1/2	5-1/4	4	2-1/4	1638 1588 1538 1488



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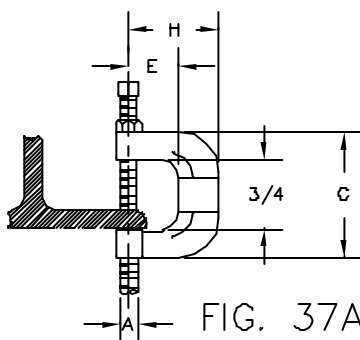
TOP BEAM C-CLAMP—
1-1/4" THROAT_____FIG. 37

MATERIAL:
MALLEABLE IRON
ORDERING:
SPECIFY NAME, FIGURE NUMBER,
ROD SIZE AND FINISH

FIG. 37

LOADS-DIMENSIONS (INCHES)

ROD SIZE A	PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB*	B	C	D	E	F
3/8	1/2 TO 2	440	1-7/16	2	3/4	1-3/16	3/4
1/2	2-1/2 TO 3-1/2	710	1-5/8	2-1/6	3/4	1-1/4	7/8
5/8	4 & 5	850	1-3/4	2-1/4	3/4	1-1/4	1
3/4	6	900	1-7/8	2-3/8	3/4	1-3/8	1-3/16



C-CLAMP W/LOCK NUT—
3/4" THROAT____FIG. 37A

MATERIAL:
MALLEABLE IRON
ORDERING:
SPECIFY NAME,
FIGURE NUMBER,
ROD SIZE AND FINISH

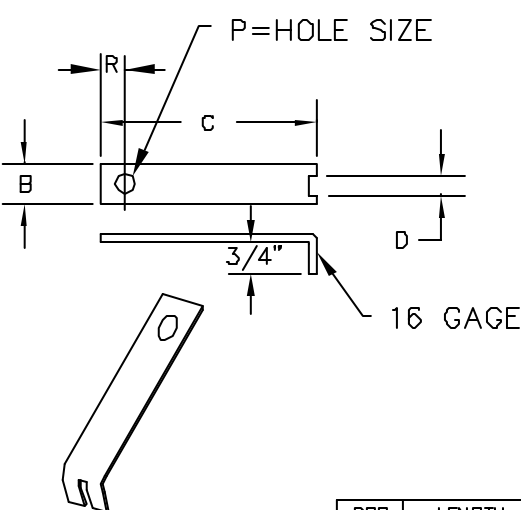
FIG. 37A

LOADS-DIMENSIONS (INCHES)

ROD SIZE A	C	E	H	MAX RECOM LOAD, LB
3/8	1-3/4	5/8	1-3/8	400
1/2	1-3/4	5/8	1-3/8	400
5/8	2	3/4	1-1/2	440
3/4	2	3/4	1-1/2	500



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C-CLAMP UNIVERSAL
RETAINING CLIP ONLY FIG. 37X

MATERIAL:

CARBON OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
ROD SIZE, AND FINISHNOTE: FOR CLIP LENGTH ADD 1/2
INCH TO BEAM WIDTH. IF REQUIRED
LENGTH IS NOT STANDARD, ORDER
NEXT LONGER SIZE. CLIPS MUST BE
FIELD FORMED TO FIT BEAMS.

FIG. 37X

ROD SIZE A	LENGTH C	B	D	P	R
3/8	4-1/2, 8, 10, 14	1	7/16	7/16	9/16
1/2	4-1/2, 8, 10, 14	1-1/4	15/32	9/16	1/2
5/8	4-1/2, 8, 10, 14	1-3/8	9/16	11/16	3/4
3/4	4-1/2, 8, 10, 14	1-3/8	11/16	13/16	3/4

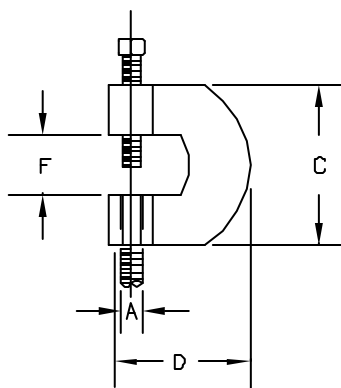


FIG. 37B

C-CLAMP

-CARBON STEEL FIG. 37B-CS

-ELECTRO-GALVANIZED FIG. 37B-EG

-STAINLESS STEEL FIG. 37B-SS

MATERIAL: CARBON STEEL OR STAINLESS STEEL

ORDERING: SPECIFY NAME, FIGURE NUMBER,
MATERIAL, FINISH AND ROD SIZE

DIMENSIONS IN INCHES

A SIZE	REC. MAX. LOAD LBS.	C	D	F	APPROX WEIGHT PER 100
3/8	230	2-3/8	2-3/8	3/4	40
1/2	380				42
5/8	450				64
3/4	630				70



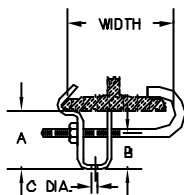


FIG. 38

ADJUSTABLE BEAM CLAMP_____FIG. 38

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD SIZE,
MATERIAL AND FINISH

LOADS, LBS.—DIMENSIONS(INCHES)

ROD SIZE	MAX. RECOM. LOAD	MAXIMUM PIPE SIZE	A	B	HOLE C	STEEL SIZE	WIDTH ADJUSTMENT	
							MIN.	MAX
3/8	300	3/4-2	2-1/2	2	7/16	1/4 X 1-1/4	3-1/2	8
1/2	700	2-1/2-4	2-1/2	2	9/16	1/4 X 1-1/2	3-1/2	8
5/8	1000	5-8	2-1/2	2	11/16	1/4 X 1-3/4	3-1/2	8

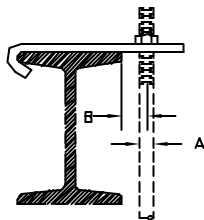


FIG. 41

TOP BEAM CLAMP (J-BAR)_____FIG. 41

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

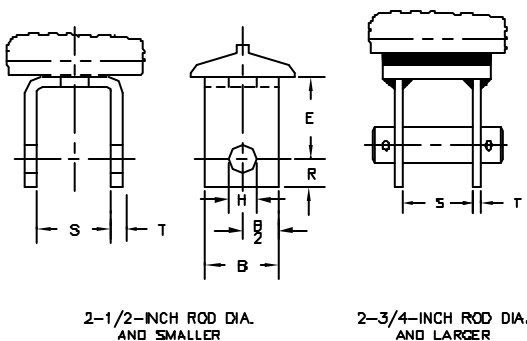
ORDERING:

SPECIFY NAME, FIGURE NUMBER, CLAMP SIZE NO.,
MATERIAL AND FINISH, GIVE BEAM FLANGE WIDTH
AND THICKNESS

DIMENSIONS IN INCHES

SIZE No.	MAXIMUM RECOM. LOAD, LB.	MAXIMUM PIPE SIZES	ROD SIZE A	B	STEEL SIZE
1	300	3/4 TO 2	3/8	5/16	3/16 X 1-1/4
2	500	2-1/2 TO 3 1/2	1/2	3/8	1/4 X 1-1/4
3	700	4 TO 5	5/8	7/16	3/8 X 1-1/2
4	1000	6	3/4	1/2	3/8 X 2
5	2000	8 TO 12	7/8	9/16	1/2 X 2-1/2





WELDED BEAM ATTACHMENT

-WITH BOLT OR PIN_____FIG. 39

-WITHOUT BOLT OR PIN____FIG. 40

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
ROD SIZE, MATERIAL AND
FINISH.

FIG. 39/40

LOADS-DIMENSIONS (INCHES)

ROD SIZE A	BOLT* SIZE	MAXIMUM RECOMMENDED LOAD, LB.*		ROD TAKE-OUT E	B	HOLE H	R	S	T
		650°F	750°F						
3/8	1/2 X 2-1/2	610	510	2	2	9/16	7/8	1-9/16	1/4
1/2	5/8 X 2-1/2	1130	940	2	2	11/16	7/8	1-5/8	1/4
5/8	3/4 X 2-3/4	1810	1510	2	2	13/16	7/8	1-5/8	1/4
3/4	7/8 X 4	2710	2260	2	2-1/2	15/16	1-1/8	1-7/8	3/8
7/8	1 X 4	3770	3150	3	2-1/2	1 1/8	1-1/4	2	3/8
1	1-1/8 X 5	4960	4150	3	3	1 1/4	1-1/2	2	1/2
1-1/4	1-3/8 X 5	8000	6660	3	4	1 1/2	2	2-1/2	5/8
1-1/2	1-5/8 X 5-3/4	11630	9700	4	5	1 3/4	2-1/2	3	3/4
1-3/4	1-7/8 X 6-7/8	15700	14000	5	5	2	2-3/4	3-3/4	3/4
2	2-1/4 X 6-7/8	20700	18460	5	6	2-3/8	3-1/4	3-3/4	3/4
2-1/4	2-1/2 X 7-3/8	27200	24260	6	6	2-5/8	3-1/2	4-1/4	3/4
2-1/2	2-3/4 X 7-5/8	33500	29880	6	6	2-7/8	3-3/4	4-1/2	3/4
2-3/4	3 X 7	41580	37066	5-3/4	6	3-1/8	4	3-3/4	3/4
3	3-1/4 X 7	50580	45085	6-1/4	7	3-3/8	4	3-3/4	3/4
3-1/4	3-1/2 X 7-3/4	60480	53906	7	7	3-5/8	4-1/2	4-1/4	3/4
3-1/2	3-3/4 X 7-3/4	71280	63493	7-1/2	8	3-7/8	4-1/2	4-1/4	3/4

*BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING

♦1-1/4" AND LARGER ARE PINS WITH COTTER PINS

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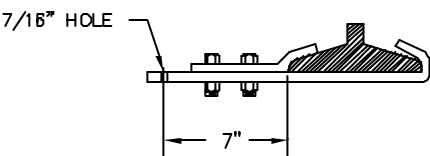


FIG. 42

OFFSET BEAM CLAMP _____ FIG. 42
FOR 2 INCH AND SMALLER PIPE

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, SIZE NO.,
BEAM FLANGE WIDTH & THICKNESS,
CLAMP MATERIAL AND FINISH

DIMENSIONS IN INCHES

SIZE NUMBER	ROD SIZE	WIDTH OF BEAM FLANGE	STEEL SIZE	BOLT SIZE	RECOM. MAX. LOAD
1 2 3 4	3/8	2 TO 4 4-1/2 TO 6 6-1/2 TO 8 8-1/2 TO 12	3/8 X 1-3/4	3/8 X 1-1/4	260

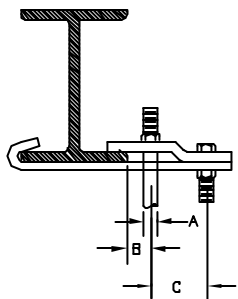


FIG. 43

CLOSE BEAM CLAMP _____ FIG. 43

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
CLAMP SIZE NO., MATERIAL,
FINISH, BEAM FLANGE WIDTH
AND THICKNESS

DIMENSIONS IN INCHES

SIZE NO.	MAX. RECOM. LOAD, LB.	MAX. PIPE SIZE	STEEL SIZE	A	B	C
1	300	3/4-2	1-1/4 X 3/16	3/8	5/16	1-3/4
2	500	2-1/2-3-1/2	1-1/4 X 1/4	1/2	3/8	2-1/4
3	700	4-5	1-1/2 X 3/8	5/8	7/16	2-1/2
4	1000	6	2 X 3/8	3/4	1/2	2-3/4
5	2000	8-12	2-1/2 X 1/2	7/8	9/16	3-1/2



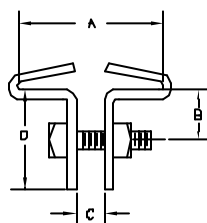


FIG. 44

I-BEAM CLAMP _____ FIG. 44

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER,
CLAMP MATERIAL AND FINISH, BEAM FLANGE
WIDTH AND THICKNESS.

DIMENSIONS IN INCHES

SIZE NO.	MAX. REC. LOAD POUNDS	B	C	D	STEEL SIZE	BOLT SIZE	APPROX. WEIGHT PER 100 BEAM WIDTH DIMENSION-A							
							2	3	4	5	6	7	8	10
1	610	1-1/8	3/8	1-3/4	1/4 X 1-1/4	1/2	74	82	109	181	131	139		
2	800	1-1/4	3/8	2	3/8 X 1-1/2	1/2	126	149	189	212	229	245		
3	1000	1-3/8	3/4	2-3/8	3/8 X 2	5/8		232	285	318	339	360	269	
4	3000	1-5/8	7/8	2-5/8	1/2 X 2	3/4		340	408	432	480	510	551	623
5	3000	1-3/4	1	3-1/4	1/2 X 3	7/8			600	645	700	740	790	880
6	5000	2-1/8	1-1/8	4-1/8	5/8 X 4	L				1195	1275	1355	1435	1595

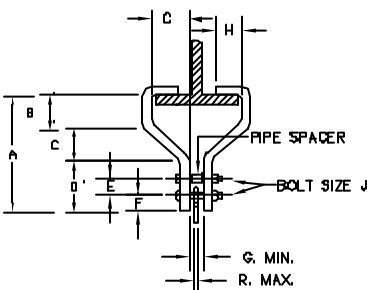


FIG. 45

EXTENDED BEAM CLAMP _____ FIG. 45

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

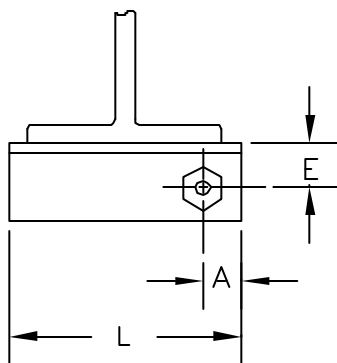
SPECIFY NAME, FIGURE NUMBER, CLAMP SIZE
NUMBER, MATERIAL AND FINISH

NOTE: EYE NUT AND ROD IS NOT INCLUDED

DIMENSIONS IN INCHES

SIZE NO.	FLANGE WIDTH	STEEL SIZE	J	A	B	C	D	E	F	MIN. G	H	MAX. REC. R	MAX. REC. LOAD LBS.
1	4			7-5/16		1-13/16							
2	5-6			7-13/16		2-5/16							
3	6-1/2-7-1/2	3/8 X 3	5/8	8-9/16	1-1/4	3-1/16	4-1/4	1-3/4	1-1/8	5/8	1-1/2	1/2	1130
4	8-9			9-5/16		3-13/16							
5	10-10-1/2			10-5/16		4-13/16							
6	4			7-5/8		1-7/8							
7	5-6			8-1/8		2-3/8							
8	6-1/2-7-1/2	1/2 X 3	3/4	8-7/8	1-1/4	3-1/8	4-1/2	1-7/8	1-3/8	7/8	2	5/8	1810
9	8-9			9-5/8		3-7/8							
10	10-10-1/2			10-3/8		4-5/8							
11	4			9-3/8		1-7/8							
12	5-6			9-7/8		2-3/8							
13	6-1/2-7-1/2	5/8 X 4	1	10-5/8	1-1/4	3-1/8	6-1/4	2-9/16	1-3/4	1	2	7/8	3770
14	8-9			11-3/8		3-7/8							
15	10-10-1/2			12-1/8		4 5/8							



DOUBLE ANGLE BEAM
ATTACHMENT_____ FIG. 46

MATERIAL:
CARBON STEEL
ORDERING:
SPECIFY NAME,
FIGURE NUMBER,
ROD SIZE, FINISH AND
"A" AND "L" WHEN
OTHER THAN MINIMUM

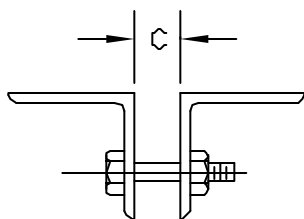


FIG. 46

LOADS-DIMENSIONS(INCHES)

ROD SIZE	MAX. RATED LOAD, LB.	ANGLE SIZE	BOLT DIA. LENGTH	A (MIN.)	C	E	L (MIN.)
1/2 5/8 3/4	1130 1810 2710	3 X 3 X 1/4	5/8 X 3 3/4 X 3 7/8 X 4	1 1 1-1/4	1-1/4 1-1/4 1-1/2	1-3/4	2 2 2 1/2
1 1-1/4	4960 8000	3-1/2 X 3-1/2 X 3/8 4 X 4 X 1/2	1-1/8 X 4-1/4 1-1/2 X 6	1-1/2 2	2 2-1/2	2 2-1/2	3 4
1-1/2 1-3/4 2	11630 15700 20700	5 X 5 X 1/2 6 X 6 X 1/2 8 X 8 X 3/4	1-3/4 X 7 2 X 7 2-1/4 X 7-1/8	2-1/2 2-1/2 3	3 3-3/4 3-3/4	3 3-1/2 5	5 5 6
2-1/4 2-1/2 2-3/4	27200 33500 41600	8 X 8 X 3/4	2-1/2 X 7-5/8 2-3/4 X 7-7/8 3 X 8-1/4	3	4-1/4 4-1/2 3-3/4	5 4-5/8 4-3/8	6
3	50600	8 X 8 X 3/4	3-1/4 X 8-1/2	3-1/2	3-3/4	4	7



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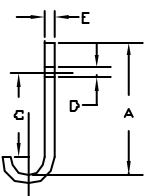


FIG. 48

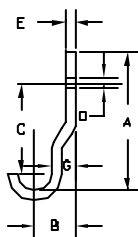


FIG. 49

STRAIGHT J-HOOK HANGER__ FIG. 48

OFFSET J-HOOK HANGER____ FIG. 49

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME,

FIGURE NUMBER,

PIPE SIZE,

MATERIAL AND FINISH

DIMENSIONS IN INCHES

PIPE SIZE	MAX. RECOM. LOAD, LB.	A	B	C	HOLE SIZE D	STEEL SIZE E	G
1/2	180	6-3/16	1-1/2	5	9/16	3/16 X 1-1/4	1
3/4	180	6-5/16	1-5/8	5	9/16	3/16 X 1-1/4	1
1	390	6-7/16	1-3/4	5	9/16	1/4 X 1-1/2	1
1-1/4	390	6-9/16	1-7/8	5	9/16	1/4 X 1-1/2	1
1-1/2	610	6-11/16	2	5	9/16	1/4 X 1-1/2	1
2	610	6-15/16	2-1/4	5	9/16	1/4 X 1-1/2	1
2-1/2	610	7-3/16	2-1/2	5	9/16	1/4 X 1-1/2	1
3	610	7-1/2	2-13/16	5	9/16	1/4 X 1-1/2	1
4	610	8	3-5/16	5	9/16	1/4 X 1-1/2	1

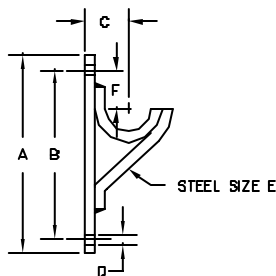


FIG. 54

WALL BRACKET PIPE SUPPORT__ FIG. 54

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME,

FIGURE NUMBER,

PIPE SIZE,

MATERIAL AND FINISH

DIMENSIONS IN INCHES

PIPE SIZE	A	B	C	HOLE SIZE D	STEEL SIZE E	F	APPROX. WEIGHT PER 100
3	9-1/8	7-7/8	2-1/4	9/16	1-1/2 X 1/4	2-3/4	239
4	10-1/2	9-1/4	2-3/4	9/16	1-1/2 X 1/4	3-1/4	256
5	12-3/4	11-1/4	3-5/16	9/16	1-1/2 X 1/4	3-3/4	405
6	14	12-1/2	3-13/16	9/16	1-1/2 X 1/4	4-1/2	448
8	18	16	5-3/8	11/16	2 X 1/2	5-3/4	1530
10	22	19-1/2	6-3/8	11/16	2-1/2 X 1/2	6-1/2	2335
12	24-1/2	22	7-3/8	11/16	2-1/2 X 1/2	7-1/2	2690



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SADDLE WITH ADJUSTABLE ROD SUPPORT_____ FIG. 50
 SADDLE W/ADJ ROD SUPPORT AND U-BOLT____ FIG. 50U

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
 MATERIAL AND FINISH

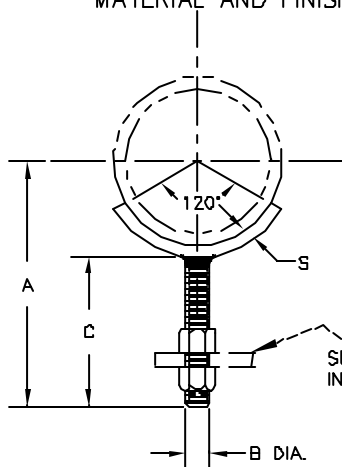


FIG. 50

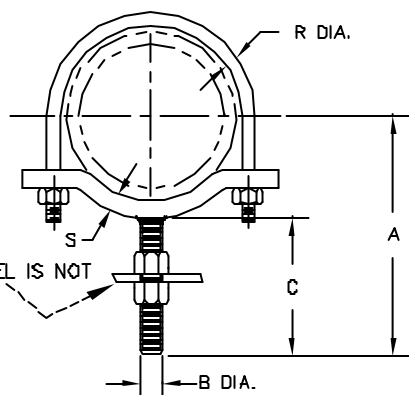


FIG. 50U

DIMENSIONS IN INCHES

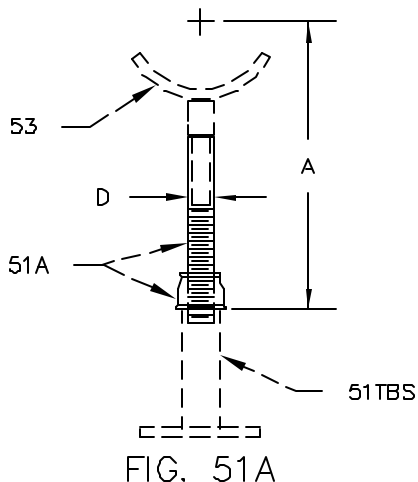
PIPE SIZE	B	C	S	A	R
2	5/8	8	1/4 X 1	9-1/2	1/4
2-1/2	5/8	8	1/4 X 1	9-3/4	3/8
3	5/8	8	1/4 X 1	10-1/16	3/8
3-1/2	5/8	8	1/4 X 1	10-5/16	3/8
4	7/8	8	1/4 X 1-1/4	10-9/16	1/2
5	7/8	8	1/4 X 1-1/4	11-1/16	1/2
6	1	8	3/8 X 1-1/2	11-3/4	5/8
8	1	8	3/8 X 1-1/2	12-3/4	5/8
10	1-1/4	8	1/2 X 2	13-15/16	5/8
12	1-1/4	8	1/2 X 2	14-15/16	5/8



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PIPE SUPPORT ADJUSTER —ONE PLAIN END_____ FIG. 51A

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
ADJUSTER SIZE, MATERIAL AND FINISH.

NOTE: ADJUSTER SIZE IS ADJUSTER
PIPE SIZE.

THIS ADJUSTER IS A PART
OF FIG. 53A AND FIG. 53AU.

SADDLE IS NOT INCLUDED.

SUPPORT PIPE P IS NOT INCLUDED.

THIS ADJUSTER MAY BE USED

ON A FIG. 51TBS THREADED BASE STAND.

DIMENSIONS IN INCHES

PIPE SIZE	SUPPORT PIPE SIZE P	ADJUSTER PIPE SIZE D	A	
			MAX.	MIN.
2-1/2	2-1/2	1-1/2	13	8
3	2-1/2	1-1/2	13-7/14	8-1/4
4	3	2-1/2	14-1/8	9-1/8
5	3	2-1/2	14-5/8	9-5/8
6	3	2-1/2	15-1/4	10-1/4
8	3	2-1/2	16-1/4	11-1/4
10	3	2-1/2	17-3/8	12-3/8
12	3	2-1/2	18-3/8	13-3/8
14	4	3	20-1/2	15-1/2
16	4	3	21-5/8	16-5/8
18	6	4	24-1/8	19-1/8
20	6	4	25-1/8	20-1/8
24	6	4	27-1/4	22-1/4
30	6	4	30-1/4	25-1/4
36	6	4	33-1/4	28-1/4



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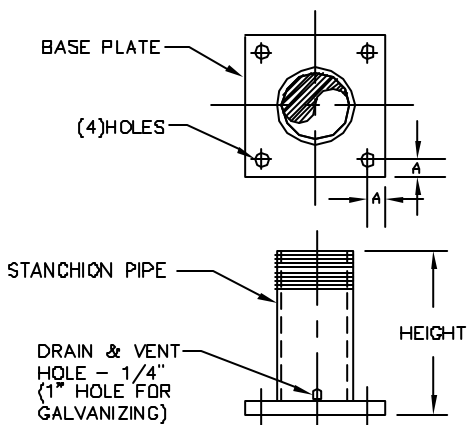


FIG-51TBS

PIPE STANCHION BASES

THREADED BASE STAND_____FIG. 51TBS

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STANCHION
PIPE SIZE, HEIGHT 'H', MATERIAL AND FINISH.

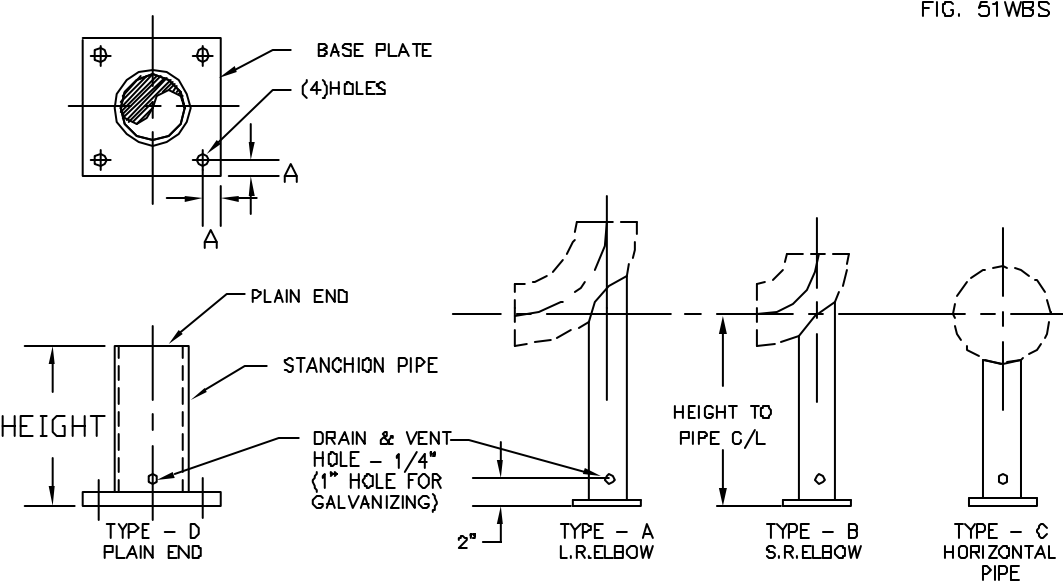
NOTES:

PIPE SUPPORT ADJUSTER FIG. 51A, PIPE SADDLES,
FIG. 52, 52U, 53A AND 53AU WILL FIT ON FIG. 51TBS.

DIMENSIONS IN INCHES

STANCHION PIPE SIZE P	BASE PLATE SIZE	HOLE SIZE	PIPE THREAD LENGTH	A
1-1/4	1/4 X 6 X 6	9/16	1-1/2	1
1-1/2	1/4 X 6 X 6	9/16	1-1/2	1
2	3/8 X 6 X 6	9/16	1-1/2	1
2-1/2	3/8 X 8 X 8	11/16	1-1/2	1-1/4
3	3/8 X 8 X 8	11/16	1-1/2	1-1/4
4	3/8 X 8 X 8	11/16	2	1-1/4
5 - 8	3/8 X 10 X 10	13/16	2	1-1/2





PIPE STANCHION BASES

WELDED BASE STAND _____FIG. 51WBS

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STANCHION PIPE SIZE,
PROCESS PIPE SIZE, TYPE, HEIGHT, MATERIAL AND FINISH.

NOTES:

SADDLES FIG. 53 AND 53U WILL FIT ON FIG. 51WBS. TYPE - D.

DIMENSIONS IN INCHES

STANCHION PIPE SIZE P	BASE PLATE SIZE	HOLE SIZE	A	MAXIMUM PROCESS PIPE SIZE
1-1/4	1/4 X 6 X 6	9/16	1	3
1-1/2	1/4 X 6 X 6	9/16	1	4
2	3/8 X 6 X 6	9/16	1	5
2-1/2	3/8 X 8 X 8	11/16	1-1/4	6
3				8
4				10
5 - 6	3/8 X 10 X 10	13/16	1-1/2	16
8	3/8 X 14 X 14	13/16	1-1/2	24
10	1/2 X 18 X 18	1-1/8	1-3/4	28
12				36
14	1/2 X 20 X 20	1-1/8	1-3/4	42
16	1/2 X 22 X 22			
18-20	1/2 X 24 X 24			
24	1/2 X 30 X 30			



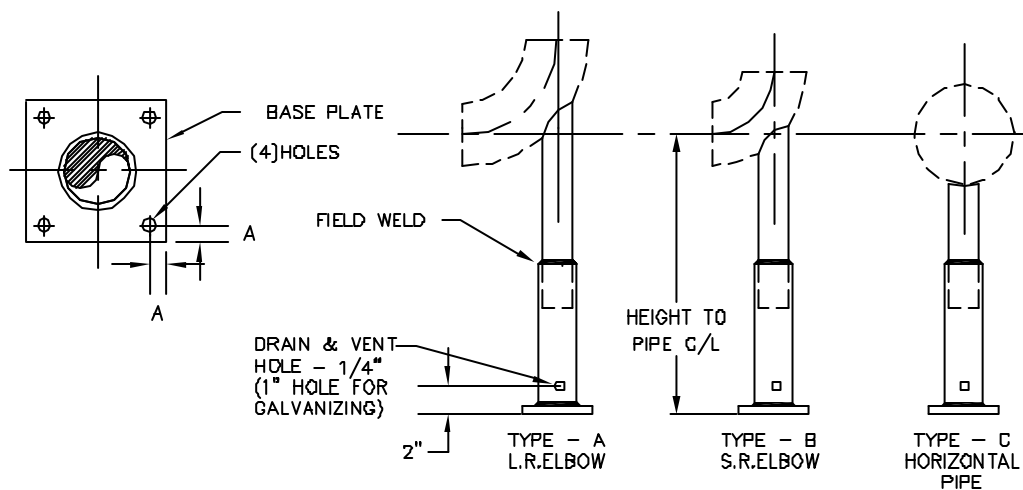
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PIPE STANCHION BASES

ADJUSTABLE WELDED BASE STAND _____ FIG. 51AWB

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STANCHION UPPER PIPE SIZE, PROCESS PIPE SIZE, TYPE, HEIGHT, MATERIAL AND FINISH.

DIMENSIONS IN INCHES

UPPER STANCHION PIPE SIZE	BASE PLATE SIZE	HOLE SIZE	A	MAXIMUM PROCESS PIPE SIZE
1-1/2	1/4 X 6 X 6	9/16	1	4
2-1/2	3/8 X 10 X 10	13/16	1-1/4	6
4	3/8 X 10 X 10	13/16	1-1/4	10
5	3/8 X 10 X 10	13/16	1-1/4	18

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PIPE SADDLE WITH COUPLING_____ FIG. 52
 PIPE SADDLE WITH PIPE COUPLING
 AND U-BOLT_____FIG. 52U

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
 PIPE SIZE, MATERIAL AND FINISH

NOTE: THIS SADDLE DOES NOT FIT
 FIG. 51A PIPE SUPPORT ADJUSTER

THIS SADDLE MAY BE USED
 WITH FIG. 51TBS
 BASE STAND.

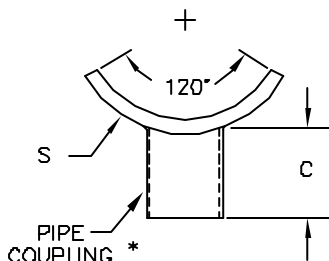


FIG. 52

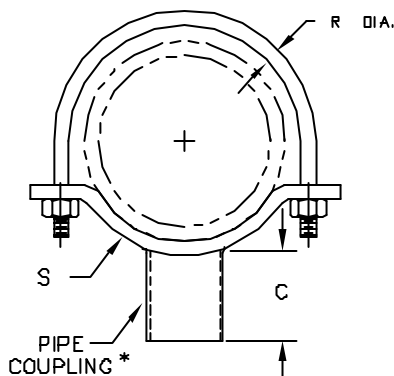


FIG. 52U

DIMENSIONS IN INCHES

PIPE SIZE	STEEL SIZE	STEEL COUPLING *		R
		PIPE SIZE	LENGTH	
2	3/8 X 2-1/2	1-1/4	2-5/8	3/8
3	3/8 X 2-1/2	1-1/2	3-1/8	3/8
4	3/8 X 3	2	3-3/8	1/2
5	3/8 X 3	2	3-3/8	1/2
6	1/2 X 3-1/2	2-1/2	3-5/8	5/8
8	1/2 X 3-1/2	2-1/2	3-5/8	5/8
10	1/2 X 4-1/2	3	4-1/4	3/4
12	1/2 X 4-1/2	3	4-1/4	7/8

* COUPLING LENGTHS MAY VARY.



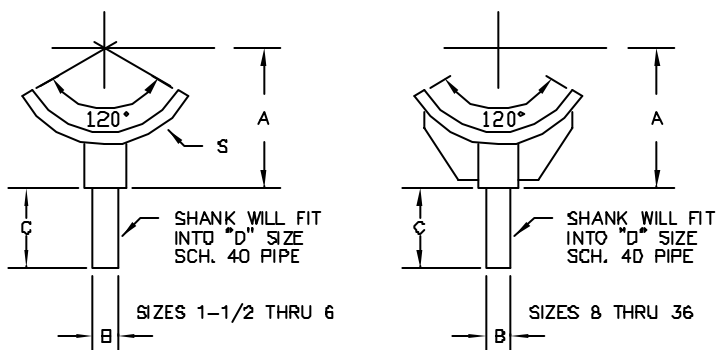


FIG. 53

PIPE SADDLE WITH SUPPORT STEM _____ FIG. 53

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISHNOTE: THIS SADDLE MAY BE USED WITH FIG. 51A
PIPE SUPPORT ADJUSTER AND A FIG. 51TBS
THREADED BASE STAND OR A FIG. 51WBS
WELDED BASE STAND.

DIMENSIONS (INCHES)

PIPE SIZE	S STOCK	A	B SCH 40 PIPE SIZE	C	D SIZE SCH 40 PIPE
2-1/2	1/4 X 2-1/2	2-11/16	1	2	1-1/2
3	1/4 X 2-1/2	3	1	2	1-1/2
4	3/8 X 4	3-13/16	2	3	2-1/2
5	3/8 X 4	4-3/16	2	3	2-1/2
6	3/8 X 4	4-7/8	2	3	2-1/2
8	3/8 X 4	6-15/16	2	4	2-1/2
10	3/8 X 4	7-15/16	2	4	2-1/2
12	3/8 X 4	9-1/8	2	4	2-1/2
14	1/2 X 4	10-1/2	2-1/2	4	3
16	1/2 X 4	11-1/2	2-1/2	4	3
18	1/2 X 5	13-1/2	3-1/2	4	4
20	1/2 X 5	14-1/2	3-1/2	4	4
24	1/2 X 5	17-1/2	3-1/2	4	4
30	5/8 X 5	20-5/8	3-1/2	4	4
36	5/8 X 5	23-5/8	3-1/2	4	4

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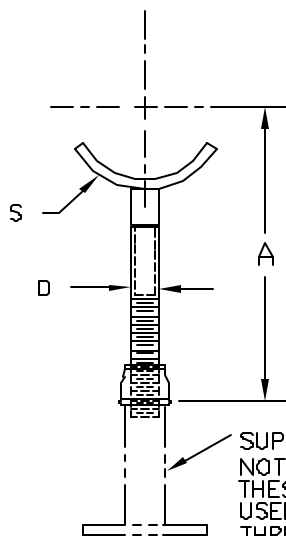


FIG. 53A

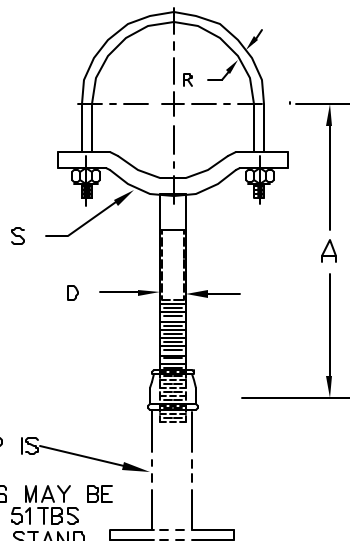


FIG. 53AU

SADDLE WITH PIPE SUPPORT ADJUSTER_____ FIG. 53A
 SADDLE WITH U-BOLT AND PIPE SUPPORT ADJUSTER____ FIG. 53AU

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
 MATERIAL AND FINISH

NOTE: THESE SUPPORTS ARE MADE BY COMBINING FIG 51A
 WITH FIG. 53 OR FIG. 53U

DIMENSIONS IN INCHES

PIPE SIZE	SUPPORT PIPE SIZE P	ADJUSTER PIPE SIZE D	A		R	S
			MAX.	MIN.		
2-1/2	2-1/2	1-1/2	13	8	1/2	1/4 X 2-1/2
3	2-1/2	1-1/2	13-1/4	8-1/4	1/2	1/4 X 2-1/2
4	3	2-1/2	14-1/8	9-1/8	1/2	3/8 X 4
5	3	2-1/2	14-5/8	9-5/8	1/2	3/8 X 4
6	3	2-1/2	15-1/4	10-1/4	5/8	3/8 X 4
8	3	2-1/2	16-1/4	11-1/4	5/8	3/8 X 4
10	3	2-1/2	17-3/8	12-3/8	3/4	3/8 X 4
12	3	2-1/2	18-3/8	13-3/8	7/8	3/8 X 4
14	4	3	20-1/2	15-1/2	7/8	1/2 X 4
16	4	3	21-5/8	16-5/8	7/8	1/2 X 4
18	6	4	24-1/8	19-1/8	1	1/2 X 5
20	6	4	25-1/8	20-1/8	1	1/2 X 5
24	6	4	27-1/4	22-1/4	1	1/2 X 5
30	6	4	30-1/4	25-1/4	1	5/8 X 5
36	6	4	33-1/4	28-1/4	1	5/8 X 5



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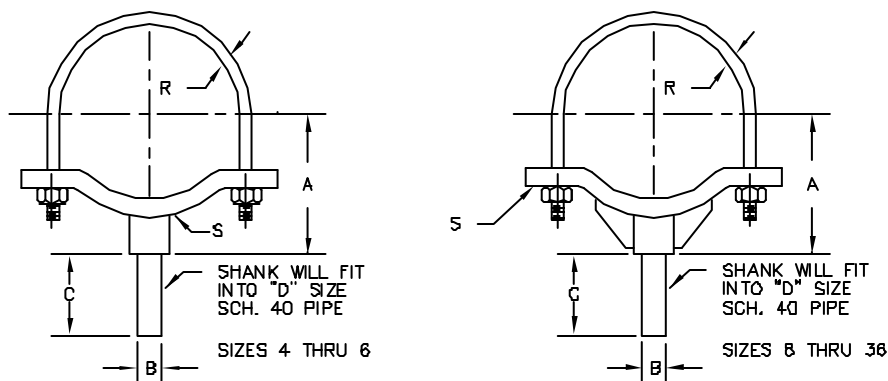


FIG. 53U

SADDLE WITH U-BOLT AND STEM SUPPORT—FIG. 53U

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

NOTE: THIS SADDLE MAY BE USED WITH FIG. 51A
PIPE SUPPORT ADJUSTER AND A 51TBS
THREADED BASE STAND OR A FIG. 51WBS
WELDED BASE STAND.

DIMENSIONS (INCHES)

PIPE SIZE	S STOCK	A	B SCH 40 PIPE SIZE	C	D SIZE SCH 40 PIPE	R
2-1/2	1/4 X 2-1/2	2-11/16	1	2	1-1/2	1/2
3	1/4 X 2-1/2	3	1	2	1-1/2	1/2
4	3/8 X 4	3-13/16	2	3	2-1/2	1/2
5	3/8 X 4	4-3/16	2	3	2-1/2	1/2
6	3/8 X 4	4-7/8	2	3	2-1/2	5/8
8	3/8 X 4	6-15/16	2	4	2-1/2	5/8
10	3/8 X 4	7-15/16	2	4	2-1/2	3/4
12	3/8 X 4	9-1/8	2	4	2-1/2	7/8
14	1/2 X 4	10-1/2	2-1/2	4	3	7/8
16	1/2 X 4	11-1/2	2-1/2	4	3	7/8
18	1/2 X 5	13-1/2	3-1/2	4	4	1
20	1/2 X 5	14-1/2	3-1/2	4	4	1
24	1/2 X 5	17-1/2	3-1/2	4	4	1
30	5/8 X 5	20-5/8	3-1/2	4	4	1
36	5/8 X 5	23-5/8	3-1/2	4	4	1



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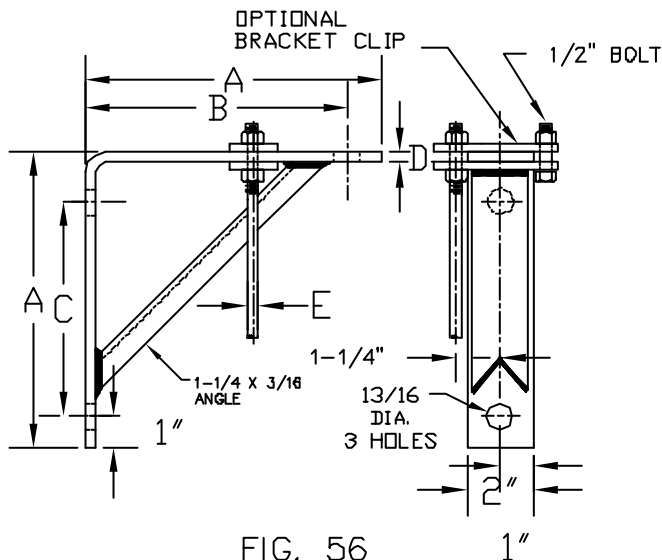


FIG. 56

LIGHT WELDED STEEL BRACKET _____ FIG. 56

MAXIMUM RECOMMENDED TOTAL LOAD: 750 LBS.

MAXIMUM RECOMMENDED 'E' ROD LOAD: 400 LBS.

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER,
MATERIAL AND FINISH

ALSO STATE CLIP OPTION REQUIRED

DIMENSIONS IN INCHES

BRACKET NO.	A	B	C	D
1	9	8	6-1/2	3/8
2	13	12	10-1/2	3/8
3	19	18	16-1/2	3/8

CLIPS FOR BRACKETS

FOR PIPE SIZES	RECOMMENDED ROD SIZE E	FLAT BAR SIZE
1/2" TO 2"	3/8	1/4 X 1-1/2
2-1/2" TO 3-1/2"	1/2	3/8 X 2



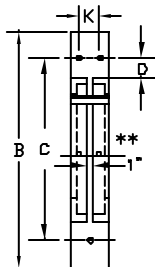
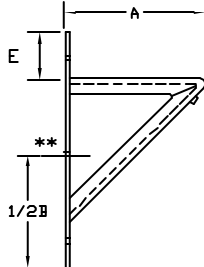
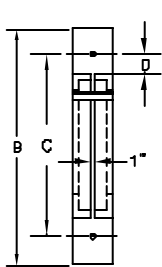


FIG. 57L, 57M, 57H

TYPE A
BRACKETS WITH VERTICAL LEG OF
ANGLE ON OUTSIDE AS SHOWN
ARE FOR LOADS ON TOP WITH OR
WITHOUT U-BOLTS.

TYPE B
BRACKETS USED TO SUPPORT ROD
HANGERS MUST HAVE ANGLES BACK
TO BACK.

FIG. 57L/57M

FIG. 57H

LIGHT WELDED BRACKET _____ FIG. 57L
MEDIUM WELDED BRACKET _____ FIG. 57M
HEAVY WELDED BRACKET _____ FIG. 57H

\$- SAVINGS -\$
SPECIAL DESIGNS
AVAILABLE FOR
YOUR LOADS.

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER,
MATERIAL AND FINISH

FIG. 57L DIMENSIONS (INCHES)

SIZE	A	B	C	D	E	PLATE SIZE	C.S. OR S.S. ANGLE SIZE	HOLE SIZE	LOAD RATING LBS.
L1	9	14	11-1/2	1-1/4	2-1/2	1/4 X 3	1 X 1/4		750
L2	13	18	15-1/2	1-1/4	2-1/2	1/4 X 3-1/2	1-1/4 X 1/4	9/16	750
L3	19	24	21-1/2	1-1/4	2-1/2	1/4 X 4	1-1/2 X 1/4		750

FIG. 57M

M0	12	18	15-1/2	1-1/4	2-1/2	3/8 X 4	1-1/2 X 1/4		1500
M1	18	24	21-1/2	1-1/4	2-1/2	3/8 X 5	2 X 1/4	13/16	1500
M2	24	30	27-1/2	1-1/4	2-1/2	3/8 X 6	2-1/2 X 3/16		1500

FIG. 57H

SIZE	A	B	C	D	E	K	PLATE SIZE	CARBON STEEL ANGLE SIZE	HOLE SIZE	LOAD RATING LBS.
H0	12	18	15-1/4	1-3/8	2-3/4	-	1/2 X 4	2 X 1-1/2 X 1/4	1-1/8	3000
H1	18	24	21-3/8	1-7/16	2-3/4	2-1/2	1/2 X 5	2 X 3/8	1-1/8	3000
H2	24	30	27-1/2	1-1/2	2-3/4	2-1/2	1/2 X 5	2-1/2 X 2 X 3/8	1-1/8	3000
H3	30	36	33-1/4	1-5/8	3	2-1/2	1/2 X 5	3 X 2 X 3/8	1-1/8	3000
H4	36	42	39	1-1/2	3	2-1/2	1/2 X 5	3 X 2 X 3/8	1-1/8	3000
H5	42	50	46	1-1/2	3-1/2	2-1/2	1/2 X 5	3 X 2 X 1/2	1-1/8	3000

**ADD 2 HOLES
ON 57H SIZES
H3, H4 & H5.

FIG. 57H STAINLESS STEEL BRACKETS			
SIZE	ANGLE SIZE	PLATE SIZE	K
H0SS	2-1/2 X 3/16	1/2 X 6	3
H1SS	3 X 1/4	1/2 X 7	4
H2SS	3 X 1/4	1/2 X 7	4
H3SS	3 X 3/8	1/2 X 7	4
H4SS	3 X 3/8	1/2 X 7	4
H5SS	3-1/2 X 3/8	1/2 X 8	5



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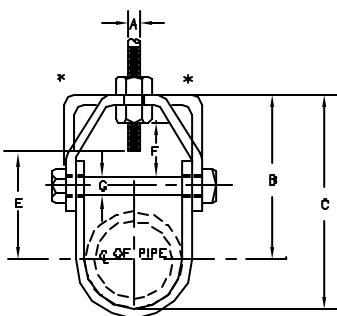


FIG. 60

ADJUSTABLE CLEVIS HANGER

- MEDIUM_____FIG. 60
 —MED. PLASTIC COATED_____FIG. 60C
 —MED. W/ HOLE SIZE PER NFPA_____FIG. 60FP

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
 PIPE SIZE, MATERIAL AND FINISH

* 3-1/2 INCH SIZE & SMALLER MAY
 HAVE A FLAT TOP.

** 20 INCH SIZE AND LARGER ARE
 FURNISHED WITH A PIPE SPACER OVER
 THE BOLT "G".

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAXIMUM RECOMMENDED LOAD LB.	SIZE OF STEEL		ROD SIZE A	B	C	ROD TAKE-OUT E	ADJUST- MENT F	BOLT G
		UPPER	LOWER						
1/2	610	16GA X 7/8	16GA X 7/8	3/8	1-11/16	2-1/8	7/8	7/16	1/4
3/4	610	16GA X 7/8	16GA X 7/8	3/8	1-7/8	2-7/16	1	1/2	1/4
1	610	16GA X 7/8	16GA X 7/8	3/8	2-1/8	2-13/16	1-1/4	5/8	1/4
1-1/4	610	16GA X 7/8	16GA X 7/8	3/8	2-9/16	3-7/16	1-3/4	7/8	1/4
1-1/2	610	13GA X 7/8	13GA X 7/8	3/8	3	4	2-1/8	1-1/16	1/4
2	610	13GA X 7/8	13GA X 7/8	3/8	3-11/16	4-7/8	2-15/16	1-5/8	1/4
2-1/2	1130	10GA X 1-3/16	11GA X 1-3/16	1/2	4-11/16	6-1/8	3-13/16	2	3/8
3	1130	10GA X 1-3/16	11GA X 1-3/16	1/2	4-3/4	6-9/16	3-7/8	1-3/4	3/8
3-1/2	1130	9GA X 1-3/16	11GA X 1-3/16	1/2	4-15/16	6-15/16	4-1/16	1-3/4	3/8
4	1430	9GA X 1-3/16	11GA X 1-3/16	5/8	5-9/16	7-13/16	4-1/2	1-15/16	3/8
5	1430	8GA X 1-1/4	8GA X 1-1/4	5/8	6-3/16	9	5-1/8	1-3/4	1/2
6	1940	5GA X 1-1/2	8GA X 1-1/2	3/4	6-13/16	10-1/8	5-5/8	1-7/8	1/2
8	2000	3GA X 1-3/4	8GA X 1-3/4	7/8	8-5/16	12-5/8	7	2-1/8	5/8
10	3600	3/8 X 1-3/4	3GA X 1-3/4	7/8	9-7/8	15-1/4	8-3/8	2-1/4	3/4
12	3600	3/8 X 2	1/4 X 2	7/8	11-1/2	18	10-3/16	3	3/4
14	4200	1/2 X 2	1/4 X 2	1	12-7/16	19-7/16	10-13/16	2-15/16	7/8
16	4600	1/2 X 2-1/2	1/4 X 2-1/2	1	14-1/16	22-1/16	12-7/16	2-5/8	1
18	4800	1/2 X 2-1/2	1/4 X 2-1/2	1	15-1/2	24-3/4	13-15/16	3-7/8	1-1/8
** 20	4800	5/8 X 3	3/8 X 3	1-1/4	17-1/4	27-3/8	14-7/16	4	1-1/4
** 24	4800	5/8 X 3	3/8 X 3	1-1/4	19-5/8	31-5/8	17-1/2	4-1/4	1-1/4
** 30	6000	3/4 X 3	3/8 X 3	1-1/4	24-1/8	39-1/8	21-7/8	5	1-1/4



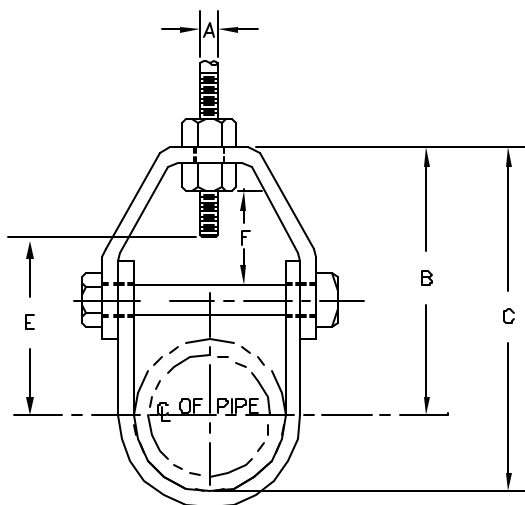


FIG. 60CI

ADJUSTABLE CLEVIS HANGER FOR CAST IRON PIPE__FIG. 60CI

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH* 20 INCH SIZE AND LARGER ARE
FURNISHED WITH A PIPE SPACER
OVER THE BOLT,

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB	SIZE OF STEEL		ROD SIZE A	B	C	E	ADJUST MENT F
		UPPER	LOWER					
4	1430	1/4 X 1-1/4	3/16 X 1-1/4	5/8	5-11/16	8-3/16	4-13/16	1-5/8
6	1940	1/4 X 1-1/2	3/16 X 1-1/2	3/4	7	10-1/2	5-3/4	1-3/4
8	2000	1/4 X 1-3/4	3/16 X 1-3/4	7/8	8-3/8	13	7	1-3/4
10	3600	3/8 X 1-3/4	1/4 X 1-3/4	7/8	10-1/8	15-3/4	8-5/8	2-1/4
12	3800	3/8 X 2	1/4 X 2	7/8	10-1/2	17-1/4	9	1-1/4
14	4200	1/2 X 2	1/4 X 2	1	13-1/2	21-1/2	11-3/4	2-1/2
16	4600	1/2 X 2-1/2	1/4 X 2-1/2	1	15-1/4	24-1/4	13-1/2	3-3/8
18	4800	1/2 X 2-1/2	1/4 X 2-1/2	1	16-3/4	26-3/4	14-7/8	3-3/8
*20	4800	5/8 X 3	3/8 X 3	1-1/4	18-1/2	29-3/4	16-3/8	3-3/4
*24	4800	5/8 X 3	3/8 X 3	1 1/4	20-3/4	34	18-5/8	4

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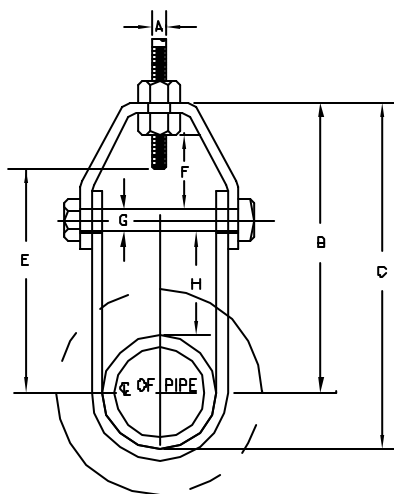


FIG. 62 & 62A

ELONGATED ADJ CLEVS FOR INSULATED PIPE

-STEEL OR STAINLESS UP TO 650°F _____ FIG. 62

-ALLOY STEEL UP TO 1050°F _____ FIG. 62A

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB.	SIZE OF STEEL		A	B	C	E	ADJUST- MENT F	G	H
		UPPER	LOWER							
3/4	610	1/8 X 1	1/8 X 1	3/8	3-5/8	4-1/4	2-7/8	1/2	1/4	2
1	610	1/8 X 1	1/8 X 1	3/8	4	4-11/16	3-1/4	5/8	1/4	2
1-1/4	610	1/8 X 1	1/8 X 1	3/8	4-7/16	5-1/4	3-5/8	7/8	1/4	2
1-1/2	610	1/8 X 1	1/8 X 1	3/8	4-3/4	5-3/4	4-1/16	1-1/16	1/4	2
2	610	1/8 X 1	1/8 X 1	3/8	7-7/16	8-11/16	6-1/2	1-5/8	1/4	4
2-1/2	1130	3/16 X 1-1/4	3/16 X 1-1/4	1/2	8-7/16	9-15/16	7-1/2	2	3/8	4
3	1130	3/16 X 1-1/4	3/16 X 1-1/4	1/2	8-5/8	10-5/16	7-9/16	1-3/4	3/8	4
4	1430	1/4 X 1-1/4	3/16 X 1-1/4	5/8	9-3/8	11-5/8	8-3/16	1-15/16	3/8	4
5	1430	1/4 X 1-1/4	3/16 X 1-1/4	5/8	9-7/8	12-5/8	8-3/4	1-3/4	1/2	4
6	1940	1/4 X 1-1/2	3/16 X 1-1/2	3/4	10-5/8	14	9-3/8	1-7/8	1/2	4
8	2000	1/4 X 1-3/4	3/16 X 1-3/4	7/8	12-3/8	16-3/4	11	2	5/8	4
10	3600	3/8 X 1-3/4	1/4 X 1-3/4	7/8	13-3/4	19-3/16	12-1/4	2-1/8	3/4	4
12	3800	3/8 X 2	1/4 X 2	7/8	15-1/8	21-9/16	13-5/8	2-7/16	3/4	4



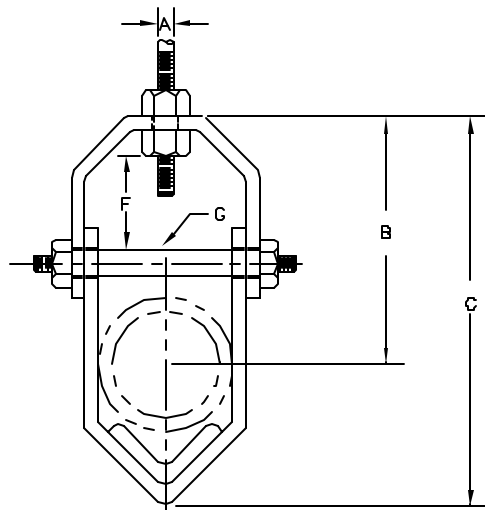


FIG. 64

V-ANGLE CLEVIS FOR HOSE OR PLASTIC PIPE__FIG. 64

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH.

NOTE:

ANGLE MUST BE ORDERED SEPARATELY.

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. LOAD, LB	STEEL SIZE	ROD SIZE A	B	C	ADJUST- MENT F	BOLT G
1/2 THRU 1 1/2	250	1/8 X 1	3/8	3-3/16	4-9/16	1-1/4	1/4
2	250	1/8 X 1	3/8	3-11/16	5-7/16	1-3/8	1/4
2 1/2 THRU 3	350	1/8 X 1-1/4	1/2	4-3/4	7-3/8	1-1/2	1/4
3 1/2 THRU 4	400	1/8 X 1-1/4	1/2	5-3/8	8-3/4	1-3/4	5/16
6	500	3/16 X 1-3/4	3/4	7-3/16	11-7/8	1-5/8	5/8

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PEAR SHAPE ADJ. RING OR
BAND HANGER____FIG. 66
PEAR SHAPE WITH PLASTIC
COATING____FIG. 66C
PEAR SHAPE WITH HOLE SIZE
PER NFPA____FIG. 66FP

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
PIPE SIZE,
MATERIAL AND FINISH.

CAUTION:

PEAR SHAPE HANGERS
DO NOT SPREAD EASY TO
GO ACROSS PIPE. THEY
MUST SLIP OVER THE
END OF PIPE.

NOTE:

NUTS AND WASHERS
SOLD SEPARATELY

FIG. 66

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD LB.	STEEL SIZE	ROD SIZE A	B	C	ROD TAKE-OUT E	ADJUST- MENT F
1/2	610	16GA X 1	3/8	1-13/16	2-5/16	1-1/8	1
3/4	610	16GA X 1	3/8	2-1/16	2-5/8	1-5/16	1
1	610	16GA X 1	3/8	2-3/16	2-7/8	1-7/16	1
1-1/4	610	16GA X 1	3/8	2-9/16	3-7/16	1-13/16	1-1/4
1-1/2	610	16GA X 1	3/8	2-3/4	3-11/16	1-15/16	1-1/4
2	610	1/8 X 1	3/8	3	4-3/16	2-3/16	1-1/4
2-1/2	970	1/8 X 1	1/2	3-7/8	5-5/16	3	1-3/4
3	970	1/8 X 1	1/2	4-1/4	6	3-5/16	1-3/4
3-1/2	970	1/8 X 1	1/2	4-1/2	6-1/2	3-9/16	1-3/4
4	1250	1/8 X 1-1/4	5/8	4-7/8	7-1/8	3-13/16	1-3/4
5	1250	1/8 X 1-1/4	5/8	5-11/16	8-7/16	4-5/8	2
6	1600	1/8 X 1-1/2	3/4	6-3/8	9-11/16	5-3/16	2
8	1800	3/16 X 1-1/2	7/8	7-9/16	11-7/8	6-3/16	2



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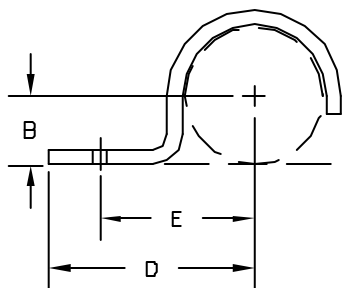


FIG.
70P & 70T

ONE HOLE PIPE CLAMP _____ FIG. 70P

ONE HOLE TUBE CLAMP _____ FIG. 70T

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE OR TUBE SIZE, MATERIAL & FINISH.

DIMENSIONS (INCHES)

SIZE	PIPE B	TUBE B	D	E	HOLE SIZE	STEEL SIZE
3/8	5/16	3/16	2	1-5/16	1/4	1/8 X 1
1/2	7/16	1/4	2-1/16	1-7/16	5/16	1/8 X 1
3/4	9/16	3/8	2-1/8	1-1/2	5/16	1/8 X 1
1	11/16	1/2	2-5/16	1-5/8	5/16	1/8 X 1
1-1/4	13/16	5/8	2-1/2	1-3/4	5/16	1/8 X 1
1-1/2	15/16	3/4	2-5/8	2	5/16	1/8 X 1
2	1-3/16	1	2-7/8	2-1/4	5/16	1/8 X 1
2-1/2	1-7/16	1-1/4	3-1/8	2-1/2	7/16	1/4 X 1-1/4
3	1-3/4	1-1/2	3-1/2	2-3/4	7/16	1/4 X 1-1/4
3-1/2	2	1-3/4	3-11/16	3-1/16	7/16	1/4 X 1-1/4
4	2-1/4	2	4-3/16	3-9/16	9/16	1/4 X 1-1/2



RING AND BOLT CLAMP, LIGHT_____FIG. 71L

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

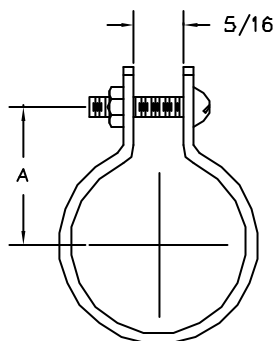
SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE , MATERIAL AND FINISH.

FIG. 71L

DIMENSIONS (INCHES)

PIPE SIZE	A	BOLT SIZE	STOCK SIZE	MAX. LOAD RATING LBS.
3/8	1	1/4	16GA. X 1	275
1/2	1-1/16	1/4	16GA. X 1	275
3/4	1-3/16	1/4	16GA. X 1	275
1	1-5/16	1/4	16GA. X 1	275
1-1/4	1-1/2	1/4	16GA. X 1	275
1-1/2	1-5/8	1/4	16GA. X 1	275
2	1-13/16	1/4	16GA. X 1	275
2-1/2	2-5/16	5/16	12GA. X 1-1/4	500
3	2-5/8	5/16	12GA. X 1-1/4	500
3-1/2	2-7/8	5/16	12GA. X 1-1/4	500
4	3-1/8	5/16	12GA. X 1-1/4	500
5	3-5/8	5/16	12GA. X 1-1/4	500
6	4-3/16	5/16	12GA. X 1-1/4	500

RING AND BOLT CLAMP, MEDIUM_____FIG. 71M

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

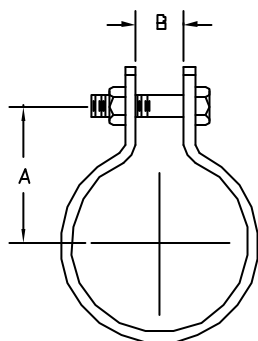
SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH.

FIG. 71M

DIMENSIONS (INCHES)

PIPE SIZE	A	B	BOLT SIZE	STEEL SIZE	MAX. RECOM. LBS.
1/2	1-1/8	7/16	3/8	1/8 X 1	500
3/4	1-1/4	7/16	3/8	1/8 X 1	500
1	1-3/8	7/16	3/8	1/8 X 1	500
1-1/4	1-5/8	7/16	3/8	1/8 X 1	500
1-1/2	1-11/16	7/16	3/8	1/8 X 1	500
2	2	7/16	3/8	1/8 X 1	500
2-1/2	2-1/4	9/16	3/8	1/8 X 1	500
3	2-9/16	9/16	3/8	1/8 X 1-1/4	900
3-1/2	2-13/16	9/16	3/8	1/8 X 1-1/4	900
4	3-7/16	11/16	1/2	1/8 X 1-1/4	900
5	4	11/16	1/2	1/8 X 1-1/4	900
6	4-11/16	13/16	1/2	3/16 X 1-1/4	1150
8	5-11/16	15/16	1/2	3/16 X 1-1/4	1150
10	6-7/8	15/16	1/2	1/4 X 1-1/2	1300
12	7-15/16	15/16	1/2	1/4 X 1-3/4	1500



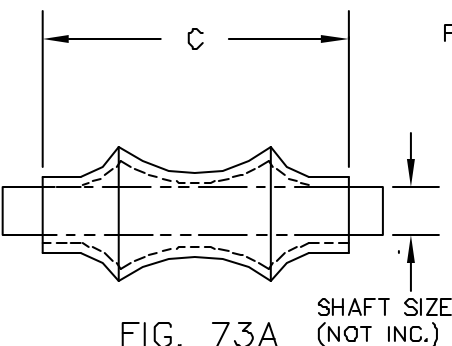
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PIPE ROLLS

- CAST IRON LONG ROLL_____FIG. 73A
 -CAST IRON SHORT ROLL
 (BOW TIE)_____FIG. 73B

ORDERING:

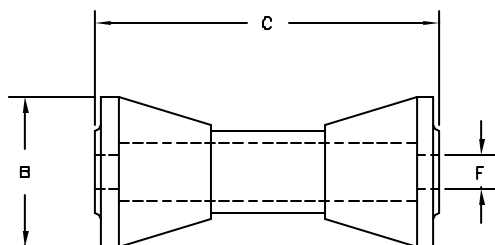
SPECIFY NAME, FIGURE NUMBER, PIPE
 SIZE, OR ROLL NUMBER.

NOTE:

ROLLS MUST BE SIZED TO FIT PIPE
 COVERING PROTECTION SADDLES ON
 INSULATED PIPE. FIG. 99 PROTECTION
 SADDLES MUST BE ORDERED SEPARATELY.

DIMENSIONS (INCHES)

PIPE SIZE	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2
C	1-1/2	1-7/8	2 1/8	2-5/8	3-1/8	3-3/4	4-1/4
F	3/8	3/8	3/8	3/8	1/2	1/2	1/2
PIPE SIZE	4	5	6	7	8	10	12
C	4-3/4	5-13/16	6-7/8	7-29/32	8-7/8	11-0	12-1/2
F	1/2	5/8	3/4	3/4	7/8	7/8	1
PIPE SIZE	14	16	18	20	24	30	
C	14-1/4	16-1/4	18-1/4	20-1/4	24-1/4	30-1/4	
F	1-1/8	1-1/4	1-1/4	1-1/4	1-1/2	1-3/4	



DIMENSIONS (INCHES)

PIPE SIZE	C	B	ROD SIZE F
2-3-1/2	2-3/4	1-7/8	1/2
4-6	3-3/4	2-1/16	1/2
7-10	6	3-1/4	3/4
12-14	8	4	7/8
16-20	9	4-1/2	1-1/8
24	10	4-7/16	1-1/4
30	12-1/2	5-1/2	1-3/4
36	15	6-3/8	2
42	15	6-3/8	2



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ROLLER CHAIR WITH 2-BOLT BASE _____ FIG. 75 BOLT OR WELD TO SUPPORT

MATERIAL:

CAST IRON ROLL; STEEL CHAIR, ROD AND BOLTS

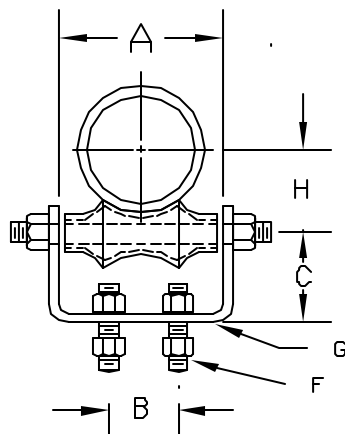
ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE.

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY



SEE FIG. 75SS
ALL STAINLESS STEEL

FIG. 75

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	BOLTS F	STEEL-SIZE G	H	SHAFT SIZE	MAX.REC. LOAD
2	2-3/4	1-1/4	1-1/2	3/8 X 1-1/2	1/4 X 1-1/4	1-5/8	3/8	600
2-1/2	3-1/4	1-1/4	1-5/8			1-15/16	1/2	600
3	3-7/8	2	1-3/4			2-1/4	1/2	600
3-1/2	4-3/8	2	2-1/16	3/8 X 1-1/2	3/8 X 1-1/2	2-9/16	1/2	750
4	4-15/16	2	2-5/16	1/2 X 1-1/2		2-13/16	1/2	750
5	6	3	2-1/2	1/2 X 1-1/2		3-7/16	5/8	750
6	7-1/8	3-1/8	2-3/4	1/2 X 1-1/2	3/8 X 2	4	3/4	1070
8	9-1/8	3-3/8	3	5/8 X 1-1/2		5-1/8	7/8	1350
10	11-1/4	5-1/4	3-5/8	5/8 X 2	1/2 X 2	6-3/8	7/8	1730
12	12-3/4	5-1/2	4-1/8			7-7/16	1	2400
14	14-1/2	6-1/2	4-11/16	3/4 X 2	1/2 X 2-1/2	8-3/8	1-1/8	3130
16	16-1/2	8-1/4	5-3/8	3/4 X 2-1/2	1/2 X 3	9-3/8	1-1/4	3970
18	18-1/2	9-1/4	6			10-7/16	1-1/4	4200
20	20-1/2	10-1/4	6-1/2			11-5/8	1-1/4	4200
24	24-1/2	12-1/4	7-7/8	7/8 X 3-1/2	5/8 X 4	14	1-1/2	4200



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ROLLER CHAIR WITH 2-BOLT BASE _____FIG. 75SS

BOLT OR WELD TO SUPPORT

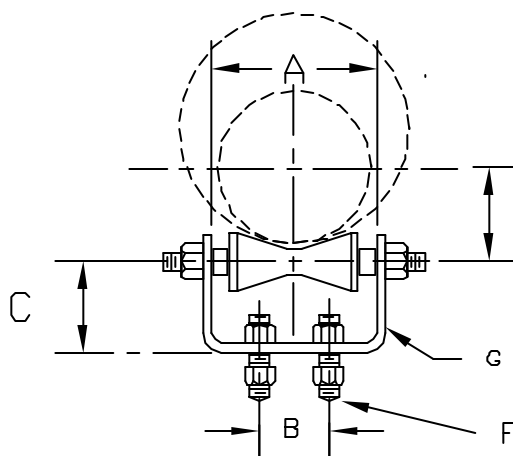
MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE.

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING PROTECTION SADDLES ON INSULATED PIPE. FIG. 99 PROTECTION SADDLES MUST BE ORDERED SEPARATELY



ALL STAINLESS STEEL
SEE FIG. 75XH
FOR HEAVIER LOADS.

FIG. 75SS

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	BOLTS F	STEEL-SIZE G	H	SHAFT SIZE	GSH ROLL	MAXIMUM LOAD
2	3-1/4	1-1/4				1-3/4			225
2-1/2	3-1/4	1-1/4				2			225
3	3-7/8	2	2-3/8	3/8 X 1-1/2	1/4 X 1-1/4	2-5/16	1/2	A	390
3-1/2	4-3/8	2	2-3/8	3/8 X 1-1/2		2-5/8	1/2	A	390
4	4-15/16	2	2-3/8	1/2 X 1-1/2	3/8 X 1-1/2	2-7/8	1/2	A	300
5	6	3	2-5/8	1/2 X 1-1/2		3-11/16	3/4	B	600
6	7-1/8	3-1/8	2-5/8	1/2 X 1-1/2	3/8 X 2	4-1/4	3/4	B	600
8	9-1/8	3-3/8	3-3/4	5/8 X 1-1/2		5-11/16	1	C	925
10	11-1/4	5-1/4	3-3/4			6-7/16	1		925
12	12-3/4	5-1/2	4-1/16	5/8 X 2	1/2 X 2	7-1/2	1	C	680
14	14-1/2	6-1/2	4-3/8	3/4 X 2	1/2 X 2-1/2	8-11/16	1-1/4	D	1200
16	16-1/2	8-1/4	5-5/16			9-7/16	1-1/4	D	1100
18	18-1/2	9-1/4	5-15/16	3/4 X 2-1/2	1/2 X 3	10-1/2	1-3/8	D20	1200
20	20-1/2	10-1/4	6-9/16			11-9/16	1-3/8	D20	1000

FOR 24" SIZE SEE FIG. 75XH



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EXTRA HEAVY

ROLLER CHAIR WITH 2-BOLT BASE _____ FIG. 75XH
BOLT OR WELD TO SUPPORT

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

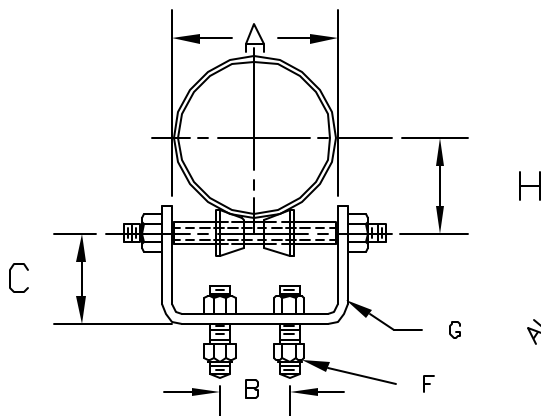
SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND
PIPE SIZE.NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING
PROTECTION SADDLES ON INSULATED PIPE. FIG. 99
PROTECTION SADDLES MUST BE ORDERED SEPARATELYALL STAINLESS STEEL
FOR LIGHTER LOADS
SEE FIG. 75SS

FIG. 75XH

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	BOLTS F	STEEL-SIZE G	H	SHAFT SIZE	MAX.REC. LOADS	ROLL NUMBER
2 2-1/2 3 3-1/2 4 5 6									
8 10 12	9-1/8 11-1/4 12-3/4	3-3/8 5-1/4 5-1/2	3 3-5/8 4-1/8	5/8 X 1-1/2 5/8 X 2 5/8 X 2	5/8 X 3	5-7/16 6-9/16 7-5/8	7/8	1360 1730 2400	E-1
14	14-1/2	6-1/2	4-11/16	3/4 X 2	5/8 X 3	8-5/16	1	3130	E-1
16 18	16-1/2 18-1/2	8-1/4 9-1/4	5-3/8 6	3/4 X 2-1/2 3/4 X 2-1/2	5/8 X 4	9-1/4 10-5/16	1-1/4	3970 4200	E-2
20 24	20-1/2 24-1/2	10-1/4 12-1/4	6-1/2 7-7/8	3/4 X 2-1/2 7/8 X 3-1/2	5/8 X 4	11-3/8 13-5/8	1-1/4	4200	E-2 E-3

SEE FIG. 75SS FOR SIZES 6" AND SMALLER

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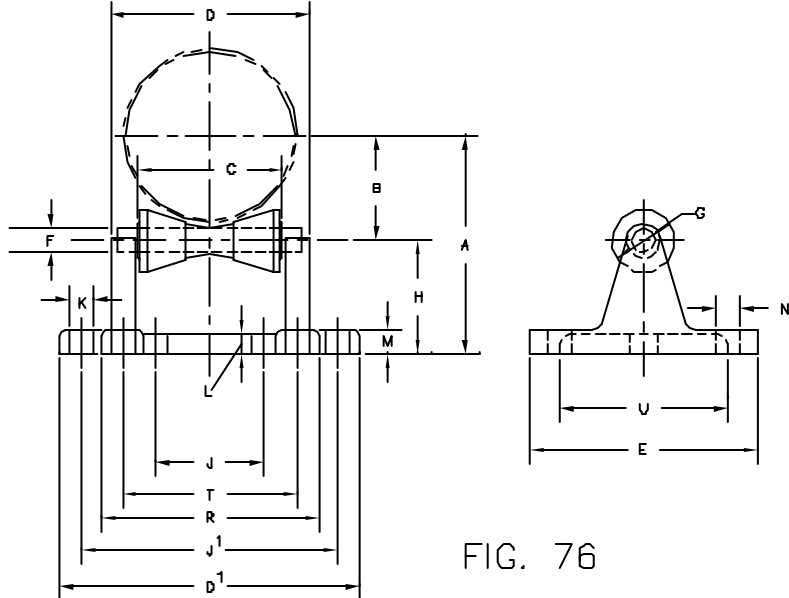


FIG. 76

PIPE ROLL STAND _____ FIG. 76

MATERIAL:

CAST IRON ROLL AND STAND

ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

LOADS-WEIGHTS

PIPE SIZE	2 THRU 3 1/2	4 THRU 6	8 THRU 10	12 THRU 14	16 THRU 20	24	30	36 THRU 42
MAX. RECOMM. LOAD LB.	390	850	2100	3075	4980	8100	7500	12000
COMPLETE FIG. 76 WGT. (APPROX.) LBS. EACH	8.4	8.9	15.3	28.1	38.7	49.6	99.3	152.0

DIMENSIONS (INCHES)

PIPE SIZE	A	B	H	D	D'	E	C	G	F	J	J'	K	L	M	N	R	T	U
2 2-1/2 3 3-1/2	3-1/2 3-7/8 4-1/8 4-3/8	1-3/4 2-1/8 2-3/8 2-5/8	1-3/4	4	8-3/8	5-3/8	2-3/4	1-7/8	1/2	-	8-3/8	1	9/16	11/16	1/2	-	3-7/16	4
4 5 6	4-13/16 3-7/16 6-1/16	2-3/4 3-3/8 4	2-1/16	5-3/8	9-7/8	5-3/8	3-3/4	2-1/16	1/2	-	7-7/8	1	3/4	7/8	1/2	-	4-11/16	4-1/4
8 10	8-11/16 9-13/16	5-1/4 6-3/8	3-7/16	7-3/4	-	8-5/8	8	3-1/4	3/4	4	-	1	3/4	7/8	5/8	8-5/8	7	5
12 14	11-3/8 12	7-1/2 8-1/8	3-7/8	9-7/8	-	7-7/8	8	4	7/8	5 3/4	-	1	3/4	7/8	3/4	10-15/16	9-1/16	8
16 18 20	13-5/8 14-5/8 15-5/8	8-3/8 10-3/8 11-3/8	4-1/4	11-1/4	-	8-5/8	9	4-1/2	1-1/8	6-3/4	-	1	7/8	1	13/16	12-3/8	10-1/4	6-1/2
24	17-3/4	13-3/8	4-3/8	12-1/2	-	8-5/8	- 10	4-7/16	1-1/4	7-1/2	-	1	1	1-1/8	13/16	13-1/2	11-3/8	6-1/2
30	21-7/8	16-3/4	5-1/8	15-3/4	-	10-3/4	12-1/2	5-1/2	1-3/4	10	-	1	1-1/4	1-1/2	1-1/16	17	14-1/4	8
36 42	25-3/4 28-7/8	20 23-1/8	5-3/4	18-3/4	-	12	15	6-3/8	2	12	-	1	1-1/2	1-3/4	1-8/16	20	17	8



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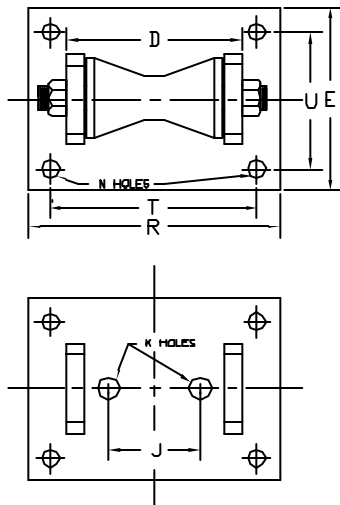
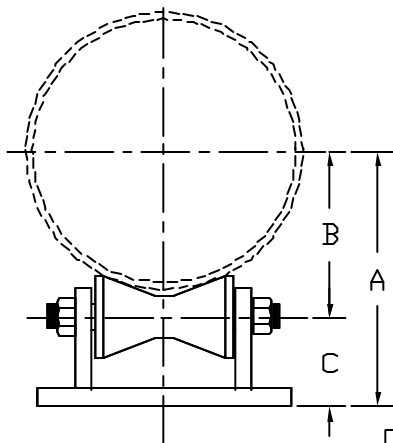


FIG. 76SS

STAINLESS STEEL PIPE ROLL STAND_____FIG. 76SS

MATERIAL:

STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, TYPE STAINLESS & PIPE SIZE

NOTE: ROLL MUST BE SIZED TO FIT PIPE COVERING PROTECTION
SADDLE ON INSULATED PIPE. FIG. 99 SADDLE MUST BE
ORDERED SEPARATELY.

DIMENSIONS — LOADS

* PIPE SIZE	A	B	C	D	GSH ROLL	E	J	K HOLE	N HOLE	R	T	U	MAX. REC. LOAD
2	3-1/2	1-3/4	1-3/4							5.5	3.44	4.0	
2-1/2	3-7/8	2-0	1-7/8							5.5	3.44	4.0	
3	4-1/8	2-5/16	1-13/16	4.0	A	6.00	-	-	.5	5.5	3.44	4.0	950
3-1/2	4-3/8	2-5/8	1-3/4							5.5	3.44	4.0	
4	4-13/16	2-7/8	1-15/16							7.0	4.69	4.25	
5	5-11/16	3-11/16	2-0	5.0	B	6.00	-	-	.5	7.0	4.69	4.25	1500
6	6-1/4	4-1/4				6.00	-	-	.5	7.0	4.69	4.25	1500
7	8-3/16	5-3/16	3-0										
8	8-11/16	5-11/16	3-0	7.5	C	7.00	4.00	1.00	.63	9.0	7.0	5.0	3500
8DI	9-1/16	5-11/16	3-3/8										
10	9-13/16	6-7/16	3-3/8										
10DI	10-3/4	6-7/8											
12	11-3/8	7-1/2	3-7/8	7.5	C	8.00	4.00	1.00	.75	11.0	9.06	6.0	3500
12DI	11-13/16	7-15/16											
14	12	8-11/16	3-5/16	9.5		8.00			.75	11.0	9.06	6.0	
14DI	13-1/2	9-5/16	4-3/16	9.5		9.00			.81	12.38	10.25	6.5	
16	13-5/8	9-7/16	4-3/16	9.5	D	9.00	6.00	1.00	.81	12.38	10.25	6.5	5000
16DI	14-9/16	10-7/16	4-1/8	9.75		9.00			.81	12.38	10.25	6.5	
18	14-5/8	10-1/2	4-1/8	9.75		9.00			.81	12.38	10.25	6.5	
18DI/20	15-5/8	11-9/16	4-1/8	9.75		9.00			.81	12.38	10.25	6.5	

* SEE FIG. 76XH FOR LARGER SIZES



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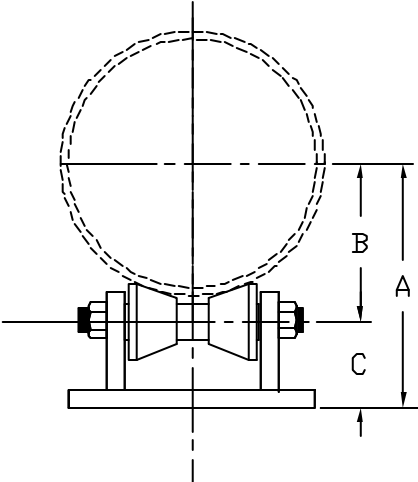
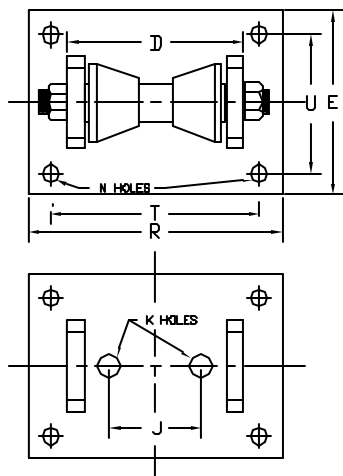


FIG. 76XH



EXTRA HEAVY
STAINLESS STEEL PIPE ROLL STAND _____ FIG. 76XH

MATERIAL:
STAINLESS STEEL

ORDERING:
SPECIFY NAME, FIGURE NUMBER, TYPE STAINLESS & PIPE SIZE

NOTE: ROLL MUST BE SIZED TO FIT PIPE COVERING PROTECTION
SADDLE ON INSULATED PIPE. FIG. 99 SADDLE MUST BE
ORDERED SEPARATELY.

DIMENSIONS — LOADS

* PIPE SIZE	A	B	C	D	GSH ROLL	E	J	K HOLE	N HOLE	R	T	U	MAX. REC. LOAD
8 8DI 10	8-11/16 9-1/16 9-13/16	5-7/16 5-13/16 6-9/16	3-1/4	8.25	E1	7.00	4.00	1.00	.63	9.0	7.0	5.0	3500
10DI 12 12DI 14	10-11/16 11-3/8 11-3/4 12-1/16	6-15/16 7-5/8 8 8-5/16	3-3/4	8.25	E1	8.00	4.00	1.00	.75	11.0	9.06	6.0	3500
14DI 16 16DI 18 18DI/20	13-1/2 13-5/8 14-9/16 14-5/8 15-5/8	9-1/8 9-1/4 10-1/4 10-5/16 11-3/8	4-3/8 4-3/8 4-5/16 4-5/16 4-1/4	9.75 9.75 10 10 10	E2	9.00	6.00	1.00	.81	12.38	10.25	6.5	5000
20DI 24	16-3/4 17-3/4	12-5/8 13-5/8	4-1/8	13.25	E3	9.00	7.5	1.00	.81	14.00	11.38	6.5	7290
24DI 30 30DI	19-15/16 21-7/8 22-15/16	14-11/16 16-5/8 17-11/16	5-1/4	15.25	E4	11.00	10.0	1.00	1.06	17.00	14.25	8.0	7290

* SEE FIG. 76SS FOR SMALLER SIZES.



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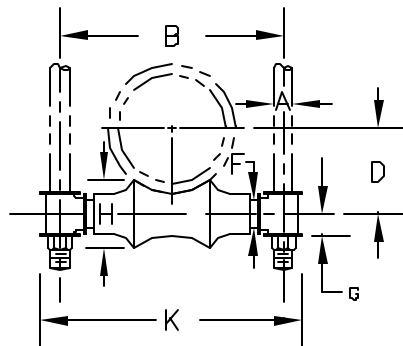


FIG. 77

ROLL TYPE HANGER FOR 2-ROD SUPPORT _____ FIG. 77

MATERIAL:

CAST IRON ROLL AND SOCKETS; STEEL ROLL ROD

ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY.

HANGER RODS AND NUTS MUST BE ORDERED SEPARATELY.

DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD LBS.	HANGER ROD SIZE A	B	D	ROLL ROD F	H	K	G
1 1-1/4 1-1/2 2	600 600 600 600	3/8	3 3-3/8 3-5/8 4-1/8	1 1-1/4 1-3/8 1-5/8	3/8	1 1-1/8 1-1/4	4-1/8 4-1/2 4-3/4 5-1/4	5/8
2 1/2 3	600 700	1/2	4-7/8 5-1/2	2 2-1/4	1/2	1-3/8 1-1/2	7 7-5/8	11/16
4 5	700 700	5/8	6-3/4 8-1/16	2-7/8 3-1/2	1/2 5/8	1-3/4 2	8-5/8 9-7/8	3/4 7/8
6 7	1000 1200	3/4	9-5/8 10-3/4	4 4-3/4	3/4	2-3/8 2-7/8	11-3/8 12-1/2	1
8 10 12	1300 1700 2400	7/8	12 14-1/8 15-13/16	5-1/8 6-1/4 7-1/2	7/8 7/8 1	2-3/4 3-3/8 4	14 16 18	1-1/8 1-1/8 1-1/4
14 16 18	3100 3900 4200	1	17-3/4 19-7/8 21-7/8	8-3/8 9-1/2 10-1/2	1-1/8 1-1/4 1-1/4	4-3/4 5 5-1/2	20 22-1/8 24-3/8	1-3/8 1-1/2 1-1/2
20 24 30	4500 8100 7200	1-1/4 1-1/2 1-1/2	24-1/8 28-5/8 35-1/2	11-5/8 14 17-1/2	1-1/4 1-1/2 1-3/4	6 7-1/4 9	26-5/8 32-1/8 39-7/8	1-5/8 1-3/4 2-7/16

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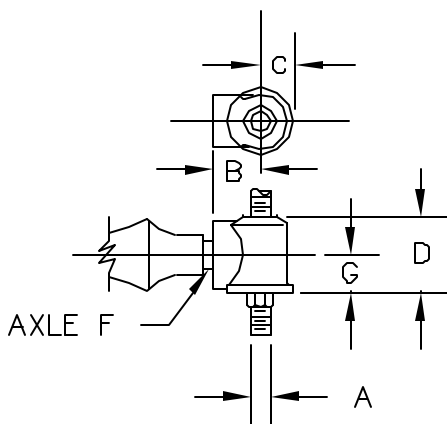


FIG.77A

ADJUSTABLE ROLL SOCKET, CAST IRON__FIG. 77A

ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND
SOCKET NUMBER.

DIMENSIONS (INCHES)

SOCKET NUMBER	PIPE SIZE	A HANGER ROD SIZE	F ROLL ROD SIZE	G	B	C	D
1- 3/8 2- 1/2	1-2 2-1/2 THRU 3-1/2	3/8 1/2	3/8 1/2	5/8 3/4	11/16 13/16	11/16 11/16	1 1-1/4
3- 1/2 3- 5/8 4- 3/4	4 5 6	5/8 5/8 3/4	1/2 5/8 3/4	7/8 5/8 1	15/16 15/16 1-5/16	13/16 13/16 1	1-9/16 1-9/16 1-13/16
5- 7/8 5- 1	8-10 12	7/8 7/8	7/8 1	1-1/4 1-1/4	1-7/16 1-7/16	1-1/8 1-1/8	2-3/16 2-3/16
6- 1-1/8 6- 1-1/4	14 16-18	1 1	1-1/8 1-1/4	1-3/8 1-3/4	1-5/8 1-7/8	1-3/8 1-3/8	2-3/8 3-3/16
8- 1-1/4 9- 1-1/2	20 24	1-1/4 1-1/2	1-1/4 1-1/2	1-13/16 1-13/16	2-1/8 2-1/8	1-5/8 1-5/8	3-5/16 3-5/16
9- 1-3/4	30	1-1/2	1-3/4	2-3/16	2-1/2	2-1/16	4

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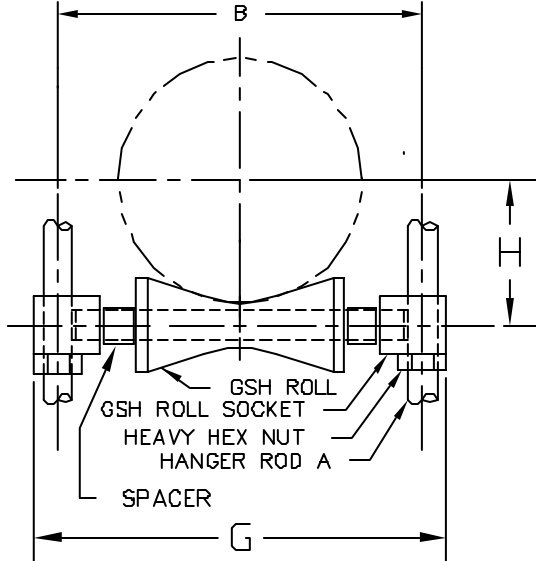


FIG. 77SS

ALL STAINLESS STEEL
FOR HEAVIER LOADS
SEE FIG. 77XH

STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT—FIG. 77SS

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

HANGER RODS AND NUTS MUST BE ORDERED SEPARATELY

DIMENSIONS (INCHES)

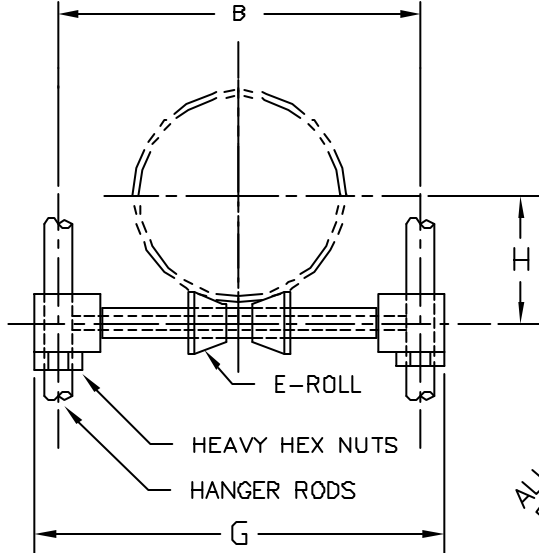
PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD-A SIZE	77A-SS SOCKET SIZE NO.	GSH ROLL	B	H	G	MAXIMUM RECOM. LOAD LBS.
2	4-1/2	1/2	2 X 1 1/2	A	5-1/2	1-3/4	7	600
2-1/2	4-1/2	1/2	2 X 1 1/2	A	5-1/2	2	7	660
3	4-1/2	1/2	2 X 1 1/2	A	5-1/2	2-5/16	7	700
3-1/2	5	1/2	2 X 1 1/2	A	6-1/8	2-5/8	7-5/8	700
4	5	5/8	3 X 1 1/2	A	6-3/4	2-7/8	8-1/4	400
5	7	3/4	4 X 3/4	B	8-1/16	3-11/16	9-9/16	750
6	8-1/4	3/4	4 X 3/4	B	9-9/16	4-1/4	11-1/16	580
7	10-1/2	7/8	5 X 1	C	11-15/16	5-3/16	13-15/16	1300
8	10-1/2	7/8	5 X 1	C	11-15/16	5-11/16	13-15/16	1300
10	12-3/4	7/8	5 X 1	C	14-1/16	6-7/16	16-1/16	1075
12	14-3/4	7/8	5 X 1	C	15-13/16	7-1/2	17-13/16	775
14	16-1/4	1	6 X 1-1/4	D	17-3/4	8-11/16	19-3/4	1500
16	18	1	6 X 1-1/4	D	19-3/4	9-7/16	21-3/4	1150
18	20-1/4	1	6 X 1-3/8	D ₂₀	21-7/8	10-1/2	24-3/8	1250
20	22-1/2	1-1/4	8 X 1-3/8	D ₂₀	24-1/4	11-9/16	26-3/4	1000



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ALL STAINLESS STEEL
FOR SMALLER LOADS
SEE FIG. 77SS

STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT—FIG. 77XH

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

HANGER RODS AND NUTS MUST BE ORDERED SEPARATELY

DIMENSIONS (INCHES)

PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD—A SIZE	SOCKET NO.	GSH ROLL NO.	B	H	G	MAXIMUM RECOM. LOAD LBS.
8	10-1/2	7/8	E1	E1	11-15/16	5-7/16	13-15/16	1350
8DI * 10	12-3/4	7/8	E1	E1	14-1/16	5-13/16 6-9/16	16-1/16	1730
10DI 12	14-3/4	7/8	E1	E1	15-13/16	6-15/16 7-5/8	17-13/16	2400
12DI 14	16-1/4	1	E2	E1	17-3/4	8 8-5/16	19-3/4	3130
14DI 16	18	1	E3	E2	19-3/4	9-1/8 9-1/4	21-3/4	3970
16DI 18	20-1/4	1	E3	E2	21-7/8	10-1/4 10-5/16	24-3/8	4200
18DI & 20 20DI	22-1/2	1-1/4	E4	E2	24-1/4	11-3/8	26-1/4	4550
20DI 24	26-1/2	1-1/2	E5	E3	28-5/8	12-5/8 13-5/8	31-1/8	6160
24DI 30 30DI	33-1/2	1-1/2	E5	E4	35-1/2	14-11/16 16-5/8 17-11/16	38	7290

* DUCTILE IRON PIPE SIZE.



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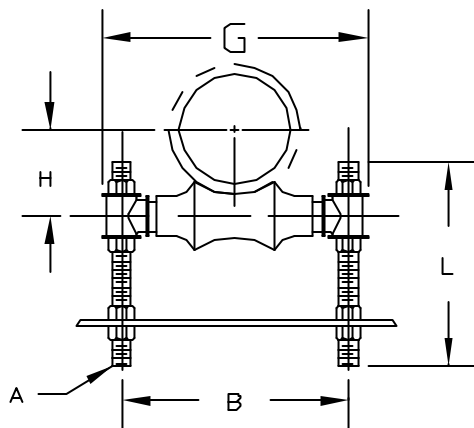


FIG. 78

SEE FIG. 78SS
ALL STAINLESS STEEL

ADJUSTABLE ROLL SUPPORT WITH 2-RODS—FIG. 78

MATERIAL:

CAST IRON ROLL AND SOCKETS; STEEL ROLL ROD
ALL THREAD ROD AND NUTS

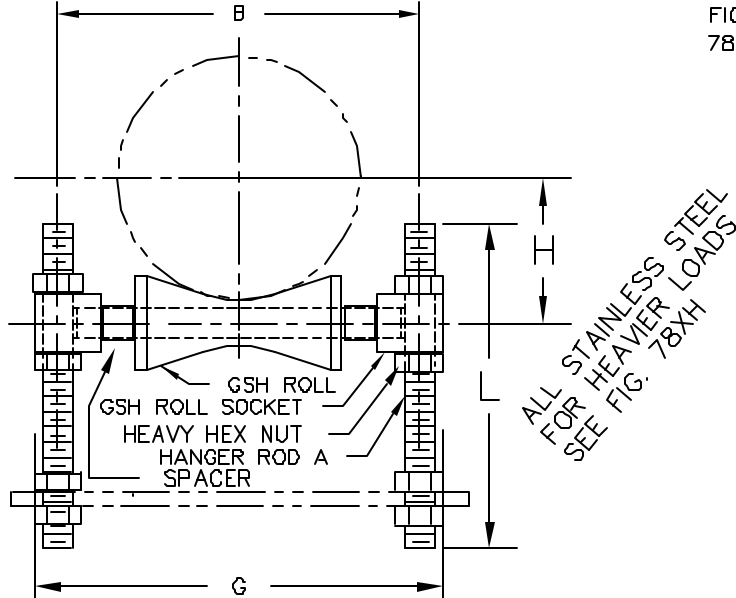
ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE
NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING
PROTECTION SADDLES ON INSULATED PIPE. FIG. 99
PROTECTION MUST BE ORDERED SEPARATELY.
STEEL SUPPORT PLATE IS NOT INCLUDED.

DIMENSIONS IN INCHES

PIPE SIZE	MAX. RECOM. LOAD, LBS.	B	H	ROD A	G	L
1-1/4	600	3-3/8	1-1/4	3/8	4-1/2	12
1-1/2	600	3-5/8	1-3/8	3/8	4-3/4	12
2	600	4-1/8	1-5/8	3/8	5-1/4	12
2-1/2	660	4-7/8	1-15/16	1/2	6-1/4	12
3	700	5-1/2	2-1/4	1/2	6-7/8	12
4	750	6-3/4	2-13/16	5/8	8-1/4	12
5	750	8-1/16	3-7/16	5/8	9-11/16	12
6	1070	9-9/16	4	3/4	11-7/16	12
7	1070	10-3/4	4-5/8	3/4	14-1/16	12
8	1350	11-15/16	5-1/8	7/8	14-1/16	12
10	1730	14-1/16	6-3/8	7/8	16-3/16	12
12	2400	15-13/16	7-7/16	7/8	18	12
14	3100	17-3/4	8-3/8	1	20-1/8	12
16	3970	19-3/4	9-7/16	1	22-1/8	18
18	4200	21-7/8	10-1/2	1	24-1/2	18
20	4550	24-1/4	11-5/8	1-1/4	27-1/4	18
24	6160	28-5/8	14	1-1/2	32-1/8	24
30	7290	35-1/2	17-7/16	1-1/2	39	24





ADJUSTABLE
STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT__FIG. 78SS
MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

ALL THREAD ROD & HEX NUTS ARE INCLUDED.

STEEL SUPPORT PLATE IS NOT INCLUDED.

DIMENSIONS (INCHES)

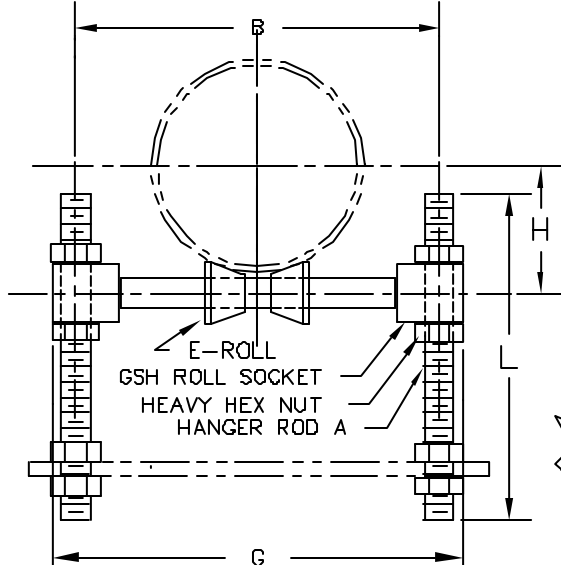
PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD-A SIZE	SOCKET NO.	GSH ROLL	B	H	G	L	MAXIMUM RECOM. LOAD LBS.
2	4-1/2	1/2	A1	A	5-1/2	1-3/4	7	12	500
2-1/2	4-1/2	1/2		A	5-1/2	2	7		860
3	4-1/2	1/2		A	5-1/2	2-5/16	7		700
3-1/2	5	1/2		A	6-1/8	2-5/8	7-5/8		700
4	6	5/8	A2	A	6-3/4	2-7/8	8-1/4	12	400
5	7	3/4	B	B	8-1/16	3-11/16	9-9/16		750
6	8-1/4	3/4		B	9-9/16	4-1/4	11-1/16		580
7	10-1/2	7/8	C	C	11-15/16	5-3/16	13-15/16	12	1300
8	10-1/2	7/8		C	11-15/16	5-11/16	13-15/16		1300
10	12-3/4	7/8		C	14-1/16	6-7/16	15-1/16		1075
12	14-3/4	7/8		C	15-13/16	7-1/2	17-13/16		775
14	16-1/4	1	D1	D	17-3/4	8-11/16	19-3/4	12	1500
16	18	1	D1	D	19-3/4	9-7/16	21-3/4	18	1150
18	20-1/4	1	D2	D20	21-7/8	10-1/2	24-3/8	18	1250
20	22-1/2	1-1/4	D3	D20	24-1/4	11-9/16	26-3/4	18	1000



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ALL STAINLESS STEEL
FOR SMALLER LOADS
SEE FIG. 78SS

ADJUSTABLE
STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT FIG. 78XH
MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

ALL THREAD ROD & HEX NUTS ARE INCLUDED.

STEEL SUPPORT PLATE IS NOT INCLUDED.

DIMENSIONS (INCHES)

PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD-A SIZE	SOCKET NO.	GSH ROLL NO.	B	H	G	L	MAXIMUM RECOM. LOAD LBS.
8	10-1/2	7/8	E1	E1	11-15/16	5-7/16	13-15/16	12	1350
8DI* 10	12-3/4	7/8	E1	E1	14-1/16	5-13/16 6-9/16	16-1/16	12	1730
10DI 12	14-3/4	7/8	E1	E1	15-13/16	6-15/16 7-5/8	17-13/16	12	2400
12DI 14	16-1/4	1	E2	E1	17-3/4	8-5/16	19-3/4	12	3130
14DI 16	18	1	E3	E2	19-3/4	9-1/8 9-1/4	21-3/4	18	3970
16DI 18	20-1/4	1	E3	E2	21-7/8	10-1/4 10-5/16	24-3/8	18	4200
18DI & 20	22-1/2	1-1/4	E4	E2	24-1/4	11-3/8	26-1/4	18	4550
20DI 24	26-1/2	1-1/2	E5	E3	28-5/8	12-5/8 13-5/8	31-1/8	24	6160
24DI 30 30DI	33-1/2	1-1/2	E5	E4	35-1/2	14-11/16 16-5/8 17-11/16	38	24	7290

* DUCTILE IRON PIPE SIZE.



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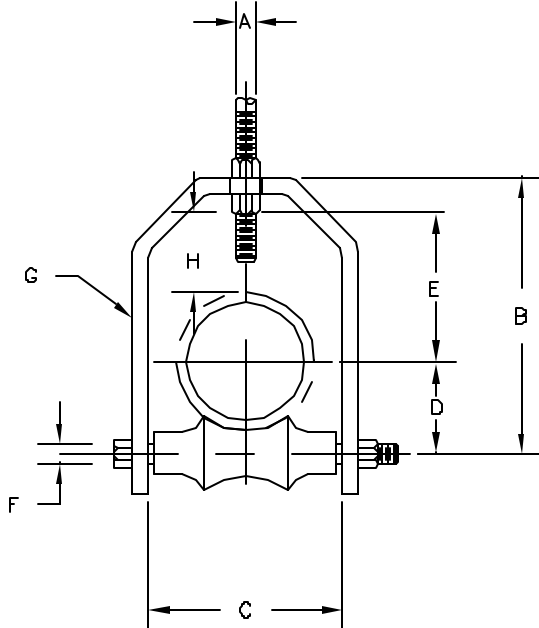


FIG. 79

ROLL HANGER WITH YOKE FOR SINGLE SUPPORT_____FIG. 79

MATERIAL:

CAST IRON ROLL; STEEL YOKE, ROLL ROD AND NUTS

ORDERING:

SPECIFY NAME, FIGURE NUMBER AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

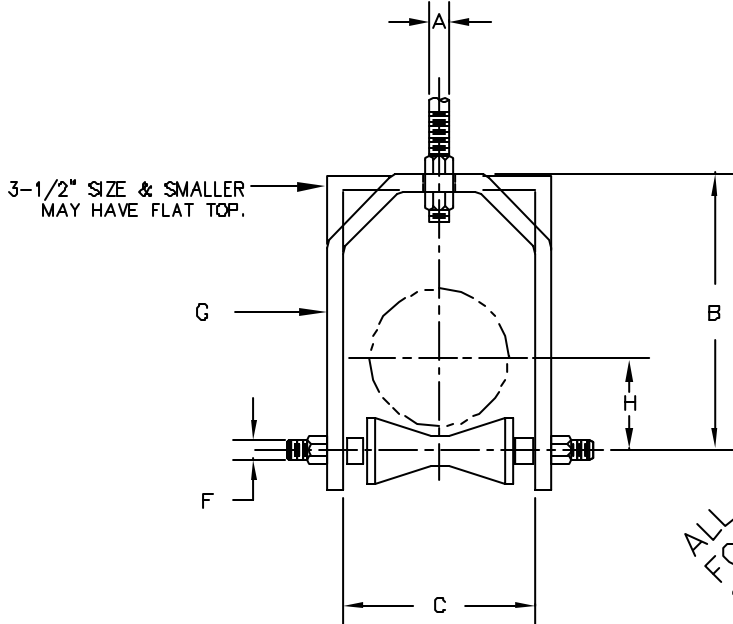
LOADS-DIMENSIONS-INCHES

PIPE SIZE	MAXIMUM O.D. OF COVERING	MAX.RECOM LOAD, LB.	ROD A	B	C	D	E	F	G	H
2-1/2	3	225	1/2	5-3/4	3-1/4	1-15/16	2-7/8	1/2	3/16 X 1-1/4	1-11/16
3	3-5/8	310	1/2	6-3/8	3-7/8	2-1/4	3-1/8	1/2	3/16 X 1-1/4	1-5/8
3-1/2	4-1/8	390	1/2	7	4-3/8	2-9/16	3-1/2	1/2	1/4 X 1-1/4	1-11/16
4	4-11/16	475	5/8	7-9/16	4-15/16	2-13/16	3-5/8	1/2	1/4 X 1-1/2	1-5/8
5	5-3/4	685	5/8	9-1/16	6	3-7/16	4-1/2	5/8	3/8 X 1-3/4	1-15/16
6	6-7/8	780	3/4	10-5/16	7-1/8	4	5	3/4	3/8 X 2	1-7/8
8	9	780	7/8	12-11/16	9-1/4	5-1/8	6-1/8	7/8	3/8 X 2-1/2	2
10	11	965	7/8	15-1/16	11-1/4	6-3/8	7-1/4	7/8	3/8 X 2-1/2	2-1/16
12	13	1200	7/8	17-7/16	13-1/4	7-7/16	8-3/8	1	1/2 X 2-1/2	2-1/4
14	14-1/4	1200	1	18-7/8	14-1/2	8-3/8	8-3/4	1-1/8	1/2 X 2-1/2	2
16	16-1/4	1200	1	20-13/16	16-1/2	9-3/8	9-11/16	1-1/4	1/2 X 2-1/2	1-15/16
18	18-1/4	1400	1	23-3/4	18-1/2	10-7/16	11-7/16	1-1/4	1/2 X 3	2-13/16
20	20-1/4	1600	1 1/4	26	20-1/2	11-5/8	12-1/4	1-1/4	5/8 X 3	2-1/2

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ALL STAINLESS STEEL
FOR HEAVIER LOADS
SEE FIG. 79XH

FIG. 79SS

STAINLESS YOKE AND ROLL HANGER _____ FIG. 79SS

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY.

ALSO AVAILABLE WITH CI ROLL AND STAINLESS
YOKE AND AXLE ROD.

LOADS-DIMENSIONS-INCHES

PIPE SIZE	MAXIMUM O.D. COVERING	MAX. RECOM. LOADS, LBS.	HANGER ROD-A	B	C	H	FIG. 79SS ROLL SIZE	AXLE ROD F	STEEL SIZE G
2 THRU 2-1/2	3	225	1/2	5	3-1/4	1-3/4 - 2	A	1/2	1/4 X 2
3 THRU 3-1/2	4-1/8	390	1/2	6-3/4	4-3/8	2-5/16 - 2-5/8		1/2	3/8 X 2
4	4-3/4	300	5/8	7-1/2	5	2-7/8		1/2	3/8 X 2
5 THRU 6	7	800	3/4	10	7-1/4	3-11/16 - 4-1/4	B	3/4	3/8 X 2-1/2
7 THRU 8	9	925	7/8	12-1/2	9-1/4	5-3/16 - 5-11/16	C	1	3/8 X 2-1/2
10	11	925	7/8	15	11-1/4	6-7/16		1	1/2 X 2-1/2
12	13	680	7/8	17	13-1/4	7-1/2		1	1/2 X 2-1/2
14	14-1/4	1200	1	18-3/8	14-1/2	8-11/16	D	1-1/4	1/2 X 2-1/2
16	16-1/4	1100	1	20-1/2	16-1/2	9-7/16	D	1-1/4	1/2 X 2-1/2
18	18-1/4	1200	1	23-1/4	18-1/2	10-1/2	D20	1-3/8	1/2 X 3
20	20-1/4	1000	1-1/4	25-1/2	20-1/2	11-9/16	D20	1-3/8	1/2 X 3



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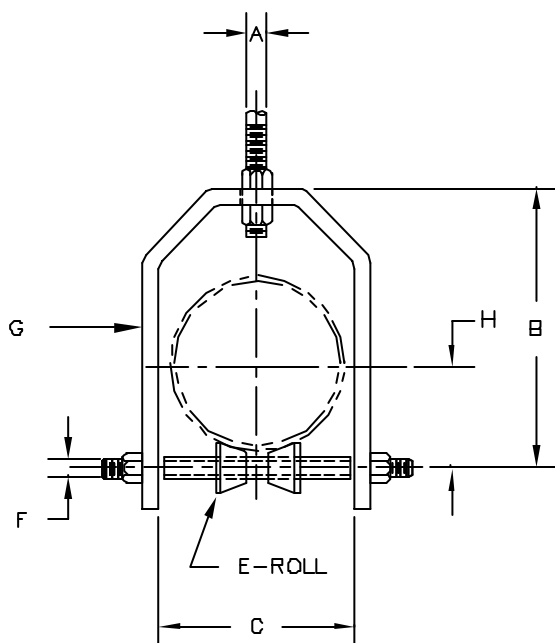


FIG. 79XH

ALL STAINLESS STEEL
SEE FIG. 79SS FOR 6"
AND SMALLER SIZES

EXTRA HEAVY
STAINLESS YOKE AND ROLL HANGER _____ FIG. 79XH

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY.

LOADS-DIMENSIONS-INCHES

PIPE SIZE	MAXIMUM O.D. COVERING	MAX. RECOM. LOADS, LBS.	HANGER ROD-A	B	C	H	ROLL NO.	AXLE ROD F	STEEL SIZE G
SEE FIG. 79SS FOR 6" AND SMALLER SIZES									
7 THRU 8	9	925	7/8	12-1/2	9-1/4	5-7/16	E-1	7/8	3/8 X 2-1/2
10	11	1200	7/8	15	11-1/4	6-9/16			1/2 X 2-1/2
12	13	1200	7/8	17	13-1/4	7-5/8			1/2 X 2-1/2
14	14-1/4	1200	1	18-3/8	14-1/2	8-5/16	E-1	1	1/2 X 2-1/2
16	16-1/4	1200	1	20-1/2	16-1/2	9-1/4	E-2	1-1/4	1/2 X 2-1/2
18	18-1/4	1400	1	23-1/4	18-1/2	10-5/16			1/2 X 3
20	20-1/4	1400	1-1/4	25-1/2	20-1/2	11-3/8	E-2	1-1/4	1/2 X 3



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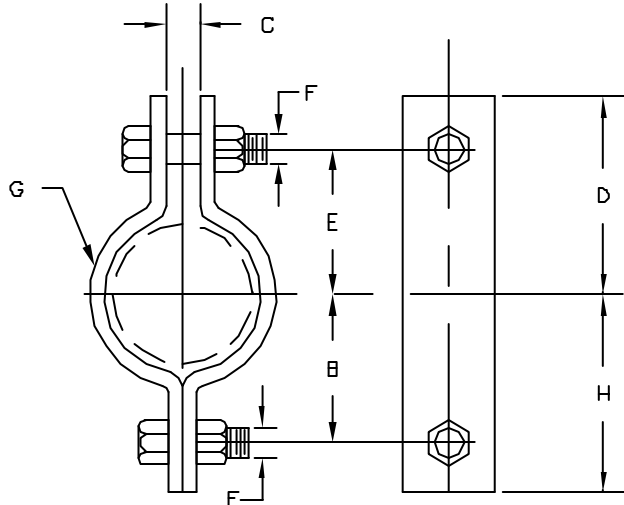


FIG.80

2-BOLT PIPE CLAMP, MEDIUM _____ FIG. 80

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

LOADS-WEIGHTS-DIMENSIONS-INCHES

PIPE SIZE	MAX. RECOM. LOAD, LB. FOR SERVICE TEMPERATURE		APPROX. WGT. LBS. EACH	B	C	D	E	F	G	H
	650°F	750°F								
1/2	500	445	.29	1	1/2	1-17/32	1	5/16	1/8 X 1	1-17/32
3/4	500	445	.33	1-1/8	1/2	1-21/32	1-1/8	5/16	1/8 X 1	1-21/32
1	500	445	.35	1-1/8	1/2	1-29/32	1-3/8	5/16	1/8 X 1	1-21/32
1-1/4	500	445	.38	1-7/16	1/2	1-31/32	1-7/16	5/16	1/8 X 1	1-31/32
1-1/2	800	715	.43	1-9/16	1/2	2-5/32	1-5/8	5/16	1/8 X 1	2-3/16
2	1040	930	1.1	2-1/8	1/2	2-3/4	2-1/8	1/2	3/16 X 1-1/4	2-3/4
2-1/2	1040	930	1.2	2-1/2	5/8	3-1/4	2-5/8	1/2	3/16 X 1-1/4	3-1/8
3	1040	930	1.4	2-13/16	5/8	3-9/16	2-15/16	1/2	3/16 X 1-1/4	3-7/16
3-1/2	1040	930	1.6	3-1/8	5/8	3-13/16	3-3/16	1/2	3/16 X 1-1/4	3-3/4
4	1040	930	2.3	3-7/16	3/4	4-3/8	3-5/8	5/8	1/4 X 1-1/4	4-3/16
5	1040	930	2.6	4	3/4	4-15/16	4-3/16	5/8	1/4 X 1-1/4	4-3/4
6	1615	1440	5.4	4-7/8	7/8	5-7/8	5	3/4	3/8 X 1-1/2	5-3/4
8	1615	1440	6.5	6	1	7	6-1/8	3/4	3/8 X 1-1/2	6-7/8
10	2490	2220	13.8	7-5/16	1	8-9/16	7-7/16	7/8	1/2 X 2	7-7/16
12	2490	2220	15.2	8-1/4	1	8-9/16	8-7/16	7/8	1/2 X 2	8-3/8
14	2490	2220	20.5	9	1-1/8	10-5/8	9-1/4	7/8	1/2 X 2-1/2	10-3/8
16	2490	2220	22.3	10	1-1/8	11-5/8	10-1/4	7/8	1/2 X 2-1/2	11-3/8
18	3060	2730	31.8	11-1/2	1-1/4	13	11-5/8	1	5/8 X 2-1/2	12-7/8
20	3060	2730	35.8	12-1/2	1-3/8	14-1/8	12-3/4	1-1/8	5/8 X 2-1/2	13-7/8
24	3060	2730	53.1	15	1-5/8	18-7/8	15-1/4	1-1/4	5/8 X 3	16-5/8
30	3060	3360	113.9	18-1/2	2	21-1/4	19	1-3/4	3/4 X 4	20-5/8



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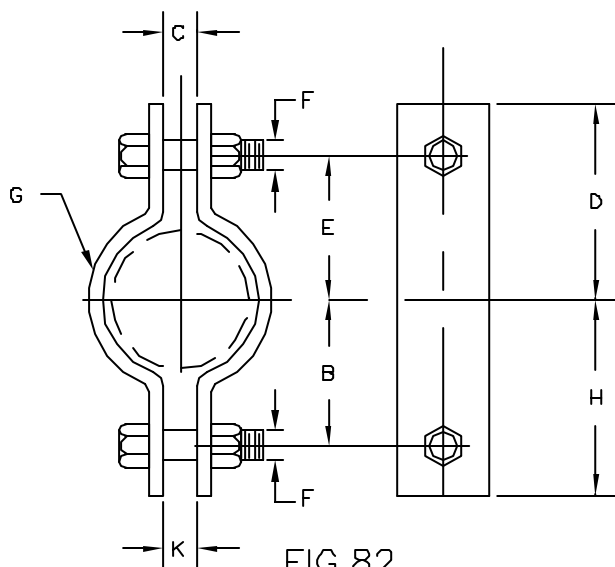


FIG.82

2-BOLT PIPE CLAMP, HEAVY _____ FIG. 82

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH

LOADS-WEIGHTS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD, LB. FOR SERVICE TEMPERATURE		WGT (APPROX) LBS. EACH	B	C	D	E	F	G	H	K
	650°F	750°F									
2 3 4 5	3300 3370 3515 3515	3000 3005 3135 3135	2.1 3.8 5.5 6.3	2 2-15/16 3-9/16 4-1/8	3/4 1 1 1	3 4 4-7/8 5-1/2	2 3-1/8 3-3/4 4-3/8	5/8 3/4 7/8 7/8	1/4 X 1-1/2 1/4 X 2 3/8 X 2 3/8 X 2	3 3-13/16 4-11/16 5-1/4	5/8 5/8 5/8 5/8
6 8 10	4865 4865 6010	4340 4340 5380	11.7 13.9 22.3	5 5-1/8 7-9/16	1-1/8 1-1/8 1-1/4	6-5/8 7-5/8 9-1/16	5-1/4 6-1/4 7-11/16	1 1 1-1/4	1/2 X 2-1/2 1/2 X 2-1/2 5/8 X 2-1/2	6-3/8 7-1/2 8-15/16	7/8 7/8 7/8
12 14 16	8875 8120 8120	7740 8135 8135	38.1 46.8 51.4	8 9-3/4 10-3/4	1-5/8 1-5/8 1-5/8	10-7/8 11-7/8 12-7/8	9-1/4 10 11	1-1/2 1-1/2 1-1/2	3/4 X 3 3/4 X 3-1/2 3/4 X 3-1/2	10-5/8 11-5/8 12-5/8	7/8 7/8 7/8
18 20 24	13800 15300 16300	— — —	130.1 163.6 215.2	14-1/2 15 18-1/4	3 3 3-1/4	17-1/4 18-3/4 21-1/2	14-1/2 18 18-1/2	2 2 2-1/4	3/4 X 6 1 X 5 1 X 6	17-1/4 18-3/4 21-1/2	3 3 3-1/4
28 30 32	18000 20500 23750	— — —	302.8 385.4 431.7	20-1/2 22-1/2 23-1/2	3-1/4 3-1/2 3-1/2	23-1/2 26 27	20-1/2 22-1/2 23-1/2	2-1/4 2-1/2 2-1/2	1 X 8 1-1/4 X 7 1-1/4 X 8	23-1/2 26 27	3-1/4 3-1/2 3-1/2
34 36 42	25000 28000 35000	— — —	533.8 576.1 815.7	25 28-1/2 30	3-1/2 3-1/2 3-1/2	28-1/2 30-1/4 33-3/4	25 28-1/2 30	2-1/2 2-3/4 2-3/4	1-1/2 X 8 1-1/2 X 8 1-3/4 X 10	28-1/2 30-1/4 33-3/4	3-1/2 3-1/2 3-1/2



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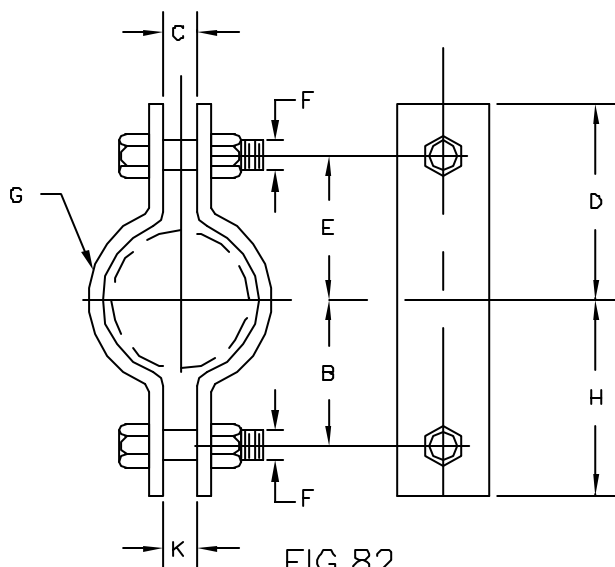


FIG.82

2-BOLT PIPE CLAMP, HEAVY _____ FIG. 82

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH

LOADS-WEIGHTS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD, LB. FOR SERVICE TEMPERATURE		WGT (APPROX) LBS. EACH	B	C	D	E	F	G	H	K
	650°F	750°F									
2 3 4 5	3300 3370 3515 3515	3000 3005 3135 3135	2.1 3.8 5.5 6.3	2 2-15/16 3-9/16 4-1/8	3/4 1 1 1	3 4 4-7/8 5-1/2	2 3-1/8 3-3/4 4-3/8	5/8 3/4 7/8 7/8	1/4 X 1-1/2 1/4 X 2 3/8 X 2 3/8 X 2	3 3-13/16 4-11/16 5-1/4	5/8 5/8 5/8 5/8
6 8 10	4865 4865 6010	4340 4340 5380	11.7 13.9 22.3	5 5-1/8 7-9/16	1-1/8 1-1/8 1-1/4	6-5/8 7-5/8 9-1/16	5-1/4 6-1/4 7-11/16	1 1 1-1/4	1/2 X 2-1/2 1/2 X 2-1/2 5/8 X 2-1/2	6-3/8 7-1/2 8-15/16	7/8 7/8 7/8
12 14 16	8875 8120 8120	7740 8135 8135	38.1 46.8 51.4	8 9-3/4 10-3/4	1-5/8 1-5/8 1-5/8	10-7/8 11-7/8 12-7/8	9-1/4 10 11	1-1/2 1-1/2 1-1/2	3/4 X 3 3/4 X 3-1/2 3/4 X 3-1/2	10-5/8 11-5/8 12-5/8	7/8 7/8 7/8
18 20 24	13800 15300 16300	— — —	130.1 183.6 215.2	14-1/2 15 18-1/2	3 3 3-1/4	17-1/4 18-3/4 21-1/2	14-1/2 18 18-1/2	2 2 2-1/4	3/4 X 6 1 X 5 1 X 6	17-1/4 18-3/4 21-1/2	3 3 3-1/4
28 30 32	18000 20500 23750	— — —	302.8 385.4 431.7	20-1/2 22-1/2 23-1/2	3-1/4 3-1/2 3-1/2	23-1/2 26 27	20-1/2 22-1/2 23-1/2	2-1/4 2-1/2 2-1/2	1 X 8 1-1/4 X 7 1-1/4 X 8	23-1/2 26 27	3-1/4 3-1/2 3-1/2
34 36 42	25000 28000 35000	— — —	533.8 576.1 815.7	25 28-1/2 30	3-1/2 3-1/2 3-1/2	28-1/2 30-1/4 33-3/4	25 28-1/2 30	2-1/2 2-3/4 2-3/4	1-1/2 X 8 1-1/2 X 8 1-3/4 X 10	28-1/2 30-1/4 33-3/4	3-1/2 3-1/2 3-1/2

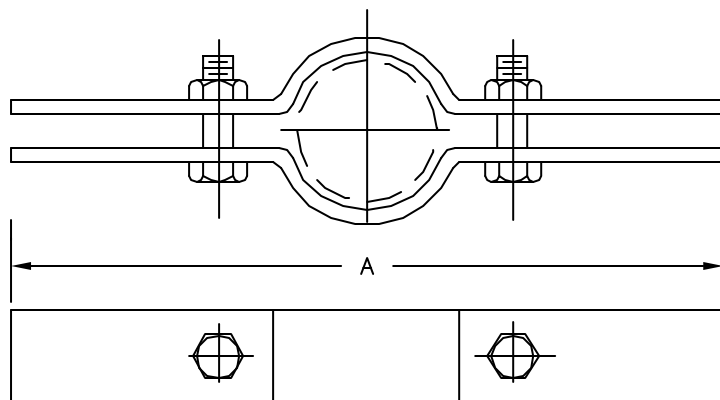


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2-BOLT RISER CLAMP, MEDIUM _____ FIG. 83
 PLASTIC COATED _____ FIG. 83C
 FOR IRON PIPE _____ FIG. 83CI

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
 PIPE SIZE MATERIAL AND FINISH

LOADS—WEIGHTS—DIMENSIONS—INCHES

PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB.	WGT.(APPROX) LBS. EACH	LENGTH A	SIZE STOCK	SIZE BOLTS
1/2	220	1.1	8-7/8	3/16 X 1-1/4	3/8 X 1-1/2
3/4	220	1.1	8-7/8	3/16 X 1-1/4	3/8 X 1-1/2
1	220	1.1	8-7/8	3/16 X 1-1/4	3/8 X 1-1/2
1-1/4	250	1.6	10	1/4 X 1-1/4	3/8 X 1-1/2
1-1/2	250	1.6	10-1/4	1/4 X 1-1/4	3/8 X 1-1/2
2	300	1.7	10-1/4	1/4 X 1-1/4	1/2 X 1-1/2
2-1/2	400	1.9	11-1/4	1/4 X 1-1/4	1/2 X 1-1/2
3	500	1.9	11-3/8	1/4 X 1-1/4	1/2 X 1-1/2
3-1/2	600	2.3	12-7/8	1/4 X 1-1/2	1/2 X 2
4	750	2.4	12-7/8	1/4 X 1-1/2	1/2 X 2
5	1180	3.6	13-3/4	1/4 X 2	1/2 X 2
6	1570	4.0	14-3/4	1/4 X 2	1/2 X 2
8	2500	7.6	18-1/2	3/8 X 2	5/8 X 2-1/2
10	2500	11.1	20-1/4	3/8 X 2	5/8 X 2-1/2
12	2700	16.6	22-3/4	1/2 X 2	5/8 X 2-1/2
14	2700	19.3	24	1/2 X 2	5/8 X 2-1/2
16	2900	32.5	26	5/8 X 2-1/2	3/4 X 3
18	2900	33.8	28	5/8 X 2-1/2	3/4 X 3
20	2900	35.0	30	5/8 X 2-1/2	3/4 X 3



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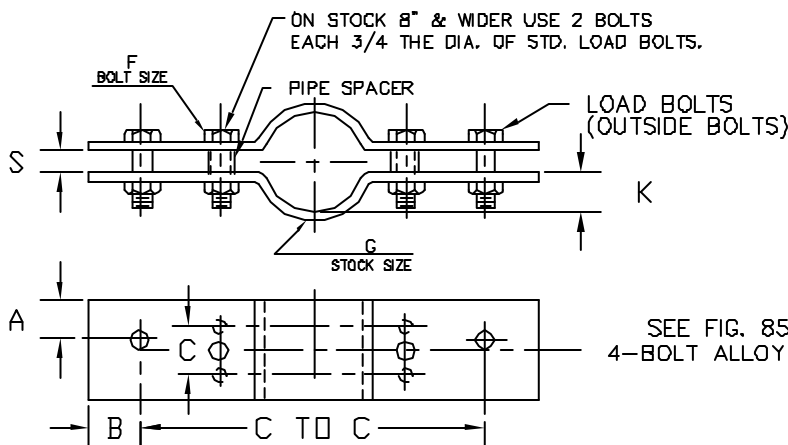


FIG. 84

4-BOLT RISER CLAMP, STANDARD _____ FIG. 84

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIG. NO., PIPE SIZE, MATERIAL & FINISH.

NOTE:

IF MAX. LOADS OR TEMPERATURES ARE EXCEEDED REFER TO FIG. 85

LOAD-DIMENSIONS-WEIGHTS

PIPE SIZE	MAX. LOAD AT 650°F	MAX. LOAD AT 750°F	C-C	S	B	A	CARBON STEEL BOLT F	STAINLESS STEEL BOLT F	G	C	K	REC. HGR. ROD SIZE	REQ'D. QUANTITY SHEAR LUGS FIG. 85
1 1-1/4 1-1/2	650	565	15	3/4	2	1	3/8	3/8	1/4 x 2	-	1-2 5-7/8 3-4	1/2 1/2 5/8	1
2 2-1/2 3	900 900 1500	785 785 1310	18 20 20	3/4	2	1-1/4 1-1/4 1-1/2	3/8 3/8 1/2	1/2 1/2 5/8	1/2x2-1/2 1/2x2-1/2 5/8 x 3	-	13/16 1-1/16 1-3/8	1/2 1/2 5/8	2
4 5	2200	1925	22	3/4	2	1-1/2	1/2	5/8	5/8 x 4	-	1-7/8 2-3/8	3/4	3
6 8	3000	2625	24 27	1	2	1-1/2	5/8	3/4 3/4	3/4 x 4 3/4 x 5	-	2-13/16 3-13/16	7/8	4
10 12 14	5500 7800 7800	4810 6825 6825	30 32 34	1-1/2 1-3/4 1-3/4	2-1/4 2-1/2 2-1/2	1-3/4 2 2	7/8 1 1	1 1 1	1 x 8 1 x 7 1 x 7	-	4-5/8 5-1/2 6-1/8	1-1/4	4 5 5
16 18	9000	7875	36 39	2	2-3/4	2-3/4	1-1/8	1-1/4 1-1/4	1-1/4 x 6 1-1/4 x 7	-	7 8	1-1/2	6
20 24	13500	11800	42 45	2-1/2	2-3/4	2-3/4	1-3/8 1-1/8	1-1/2	1-1/2 x 8	4	8-3/4 10-3/4	1-3/4	6



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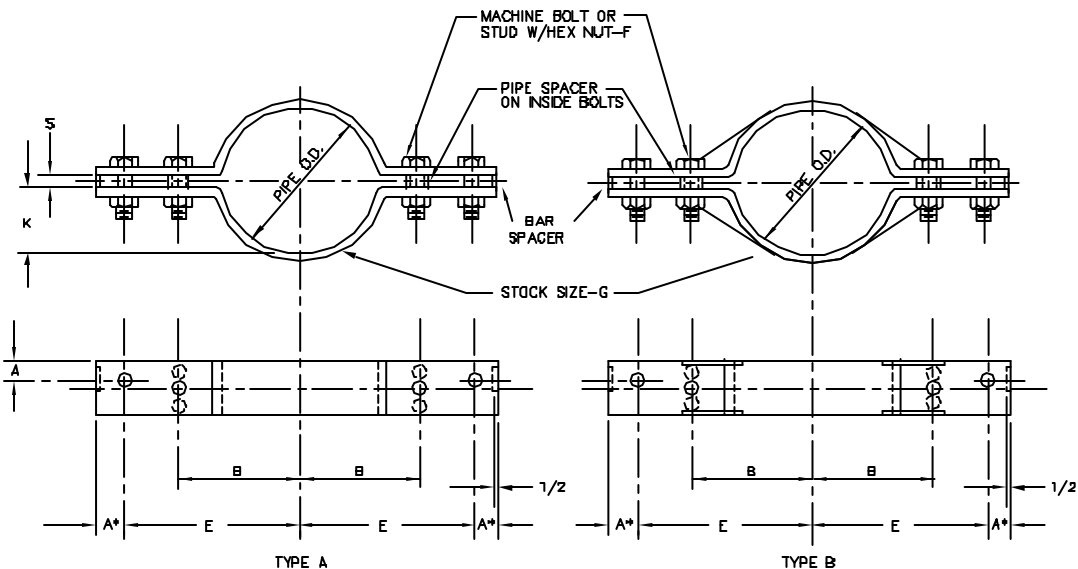


FIG. 85

4-BOLT RISER NON-STANDARD_____ FIG. 85

MATERIAL:

CARBON STEEL, STAINLESS STEEL, OR ALLOY STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
PIPE TEMPERATURE, TOTAL LOAD, HANGER MATERIAL
AND FINISH. ALSO SPECIFY 'E' OR C TO C DIMENSION.

NOTE:

IF DEFINITE "B" DIMENSION IS REQUIRED
IT MUST BE SPECIFIED

TYPE B IS GENERALLY REQUIRED FOR PIPE SIZES
ABOVE 12" WITH LOADS ABOVE ABOUT 8000 POUNDS
ALLOY STEEL IS REQUIRED ABOVE 750 DEGREES F.

SEE FIG. 84 FOR STANDARD
4-BOLT RISER CLAMP

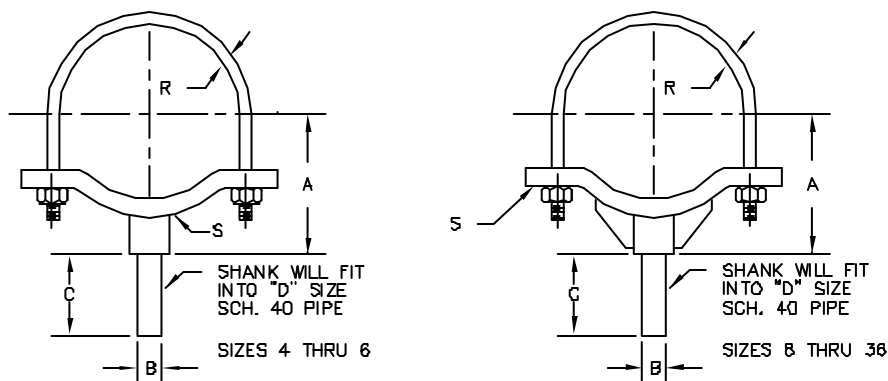


FIG. 53U

SADDLE WITH U-BOLT AND STEM SUPPORT—FIG. 53U

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISHNOTE: THIS SADDLE MAY BE USED WITH FIG. 51A
PIPE SUPPORT ADJUSTER AND A 51TBS
THREADED BASE STAND OR A FIG. 51WBS
WELDED BASE STAND.

DIMENSIONS (INCHES)

PIPE SIZE	S STOCK	A	B SCH 40 PIPE SIZE	C	D SIZE SCH 40 PIPE	R
2-1/2	1/4 X 2-1/2	2-11/16	1	2	1-1/2	1/2
3	1/4 X 2-1/2	3	1	2	1-1/2	1/2
4	3/8 X 4	3-13/16	2	3	2-1/2	1/2
5	3/8 X 4	4-3/16	2	3	2-1/2	1/2
6	3/8 X 4	4-7/8	2	3	2-1/2	5/8
8	3/8 X 4	6-15/16	2	4	2-1/2	5/8
10	3/8 X 4	7-15/16	2	4	2-1/2	3/4
12	3/8 X 4	9-1/8	2	4	2-1/2	7/8
14	1/2 X 4	10-1/2	2-1/2	4	3	7/8
16	1/2 X 4	11-1/2	2-1/2	4	3	7/8
18	1/2 X 5	13-1/2	3-1/2	4	4	1
20	1/2 X 5	14-1/2	3-1/2	4	4	1
24	1/2 X 5	17-1/2	3-1/2	4	4	1
30	5/8 X 5	20-5/8	3-1/2	4	4	1
36	5/8 X 5	23-5/8	3-1/2	4	4	1

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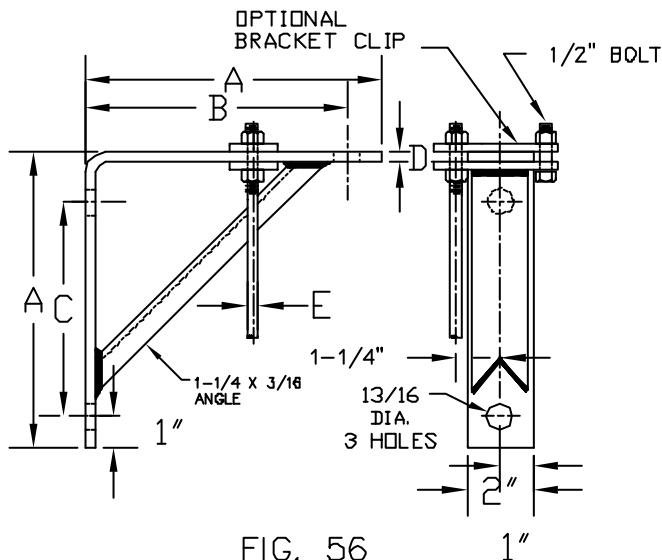


FIG. 56

LIGHT WELDED STEEL BRACKET _____ FIG. 56

MAXIMUM RECOMMENDED TOTAL LOAD: 750 LBS.

MAXIMUM RECOMMENDED 'E' ROD LOAD: 400 LBS.

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER,
MATERIAL AND FINISH

ALSO STATE CLIP OPTION REQUIRED

DIMENSIONS IN INCHES

BRACKET NO.	A	B	C	D
1	9	8	6-1/2	3/8
2	13	12	10-1/2	3/8
3	19	18	16-1/2	3/8

CLIPS FOR BRACKETS

FOR PIPE SIZES	RECOMMENDED ROD SIZE E	FLAT BAR SIZE
1/2" TO 2"	3/8	1/4 X 1-1/2
2-1/2" TO 3-1/2"	1/2	3/8 X 2



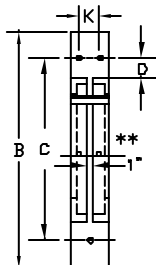
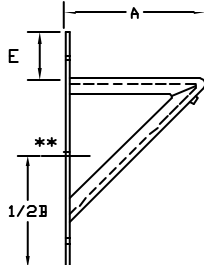
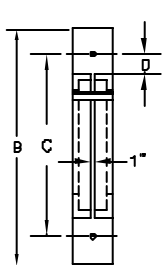


FIG. 57L, 57M, 57H

TYPE A
BRACKETS WITH VERTICAL LEG OF
ANGLE ON OUTSIDE AS SHOWN
ARE FOR LOADS ON TOP WITH OR
WITHOUT U-BOLTS.

TYPE B
BRACKETS USED TO SUPPORT ROD
HANGERS MUST HAVE ANGLES BACK
TO BACK.

FIG. 57L/57M

FIG. 57H

LIGHT WELDED BRACKET _____ FIG. 57L
MEDIUM WELDED BRACKET _____ FIG. 57M
HEAVY WELDED BRACKET _____ FIG. 57H

\$- SAVINGS -\$
SPECIAL DESIGNS
AVAILABLE FOR
YOUR LOADS.

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, SIZE NUMBER,
MATERIAL AND FINISH

FIG. 57L DIMENSIONS (INCHES)

SIZE	A	B	C	D	E	PLATE SIZE	C.S. OR S.S. ANGLE SIZE	HOLE SIZE	LOAD RATING LBS.
L1	9	14	11-1/2	1-1/4	2-1/2	1/4 X 3	1 X 1/4		750
L2	13	18	15-1/2	1-1/4	2-1/2	1/4 X 3-1/2	1-1/4 X 1/4	9/16	750
L3	19	24	21-1/2	1-1/4	2-1/2	1/4 X 4	1-1/2 X 1/4		750

FIG. 57M

M0	12	18	15-1/2	1-1/4	2-1/2	3/8 X 4	1-1/2 X 1/4		1500
M1	18	24	21-1/2	1-1/4	2-1/2	3/8 X 5	2 X 1/4	13/16	1500
M2	24	30	27-1/2	1-1/4	2-1/2	3/8 X 6	2-1/2 X 3/16		1500

FIG. 57H

SIZE	A	B	C	D	E	K	PLATE SIZE	CARBON STEEL ANGLE SIZE	HOLE SIZE	LOAD RATING LBS.
H0	12	18	15-1/4	1-3/8	2-3/4	-	1/2 X 4	2 X 1-1/2 X 1/4	1-1/8	3000
H1	18	24	21-3/8	1-7/16	2-3/4	2-1/2	1/2 X 5	2 X 3/8	1-1/8	3000
H2	24	30	27-1/2	1-1/2	2-3/4	2-1/2	1/2 X 5	2-1/2 X 2 X 3/8	1-1/8	3000
H3	30	36	33-1/4	1-5/8	3	2-1/2	1/2 X 5	3 X 2 X 3/8	1-1/8	3000
H4	36	42	39	1-1/2	3	2-1/2	1/2 X 5	3 X 2 X 3/8	1-1/8	3000
H5	42	50	46	1-1/2	3-1/2	2-1/2	1/2 X 5	3 X 2 X 1/2	1-1/8	3000

**ADD 2 HOLES
ON 57H SIZES
H3, H4 & H5.

FIG. 57H STAINLESS STEEL BRACKETS			
SIZE	ANGLE SIZE	PLATE SIZE	K
H0SS	2-1/2 X 3/16	1/2 X 6	3
H1SS	3 X 1/4	1/2 X 7	4
H2SS	3 X 1/4	1/2 X 7	4
H3SS	3 X 3/8	1/2 X 7	4
H4SS	3 X 3/8	1/2 X 7	4
H5SS	3-1/2 X 3/8	1/2 X 8	5



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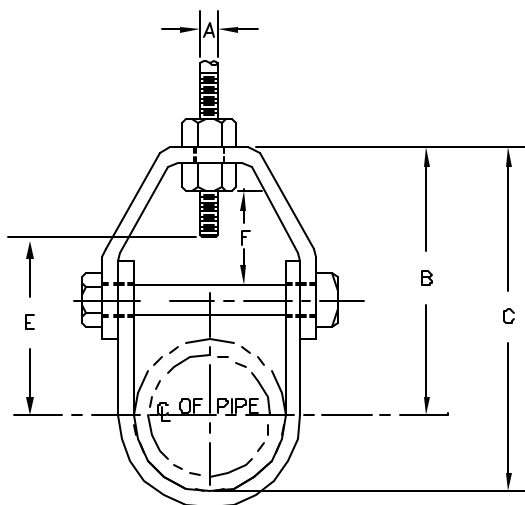


FIG. 60CI

ADJUSTABLE CLEVIS HANGER FOR CAST IRON PIPE__FIG. 60CI

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH* 20 INCH SIZE AND LARGER ARE
FURNISHED WITH A PIPE SPACER
OVER THE BOLT,

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB	SIZE OF STEEL		ROD SIZE A	B	C	E	ADJUST MENT F
		UPPER	LOWER					
4	1430	1/4 X 1-1/4	3/16 X 1-1/4	5/8	5-11/16	8-3/16	4-13/16	1-5/8
6	1940	1/4 X 1-1/2	3/16 X 1-1/2	3/4	7	10-1/2	5-3/4	1-3/4
8	2000	1/4 X 1-3/4	3/16 X 1-3/4	7/8	8-3/8	13	7	1-3/4
10	3600	3/8 X 1-3/4	1/4 X 1-3/4	7/8	10-1/8	15-3/4	8-5/8	2-1/4
12	3800	3/8 X 2	1/4 X 2	7/8	10-1/2	17-1/4	9	1-1/4
14	4200	1/2 X 2	1/4 X 2	1	13-1/2	21-1/2	11-3/4	2-1/2
16	4600	1/2 X 2-1/2	1/4 X 2-1/2	1	15-1/4	24-1/4	13-1/2	3-3/8
18	4800	1/2 X 2-1/2	1/4 X 2-1/2	1	16-3/4	26-3/4	14-7/8	3-3/8
*20	4800	5/8 X 3	3/8 X 3	1-1/4	18-1/2	29-3/4	16-3/8	3-3/4
*24	4800	5/8 X 3	3/8 X 3	1 1/4	20-3/4	34	18-5/8	4

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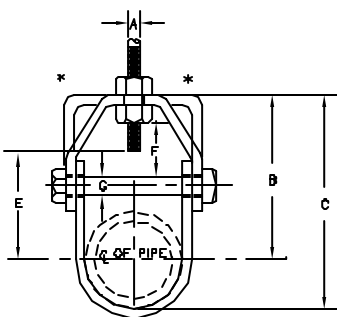


FIG. 60

ADJUSTABLE CLEVIS HANGER

- MEDIUM_____FIG. 60
 —MED. PLASTIC COATED_____FIG. 60C
 —MED. W/ HOLE SIZE PER NFPA_____FIG. 60FP

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
 PIPE SIZE, MATERIAL AND FINISH

* 3-1/2 INCH SIZE & SMALLER MAY
 HAVE A FLAT TOP.

** 20 INCH SIZE AND LARGER ARE
 FURNISHED WITH A PIPE SPACER OVER
 THE BOLT "G".

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAXIMUM RECOMMENDED LOAD LB.	SIZE OF STEEL		ROD SIZE A	B	C	ROD TAKE-OUT E	ADJUST- MENT F	BOLT G
		UPPER	LOWER						
1/2	610	16GA X 7/8	16GA X 7/8	3/8	1-11/16	2-1/8	7/8	7/16	1/4
3/4	610	16GA X 7/8	16GA X 7/8	3/8	1-7/8	2-7/16	1	1/2	1/4
1	610	16GA X 7/8	16GA X 7/8	3/8	2-1/8	2-13/16	1-1/4	5/8	1/4
1-1/4	610	16GA X 7/8	16GA X 7/8	3/8	2-9/16	3-7/16	1-3/4	7/8	1/4
1-1/2	610	13GA X 7/8	13GA X 7/8	3/8	3	4	2-1/8	1-1/16	1/4
2	610	13GA X 7/8	13GA X 7/8	3/8	3-11/16	4-7/8	2-15/16	1-5/8	1/4
2-1/2	1130	10GA X 1-3/16	11GA X 1-3/16	1/2	4-11/16	6-1/8	3-13/16	2	3/8
3	1130	10GA X 1-3/16	11GA X 1-3/16	1/2	4-3/4	6-9/16	3-7/8	1-3/4	3/8
3-1/2	1130	9GA X 1-3/16	11GA X 1-3/16	1/2	4-15/16	6-15/16	4-1/16	1-3/4	3/8
4	1430	9GA X 1-3/16	11GA X 1-3/16	5/8	5-9/16	7-13/16	4-1/2	1-15/16	3/8
5	1430	8GA X 1-1/4	8GA X 1-1/4	5/8	6-3/16	9	5-1/8	1-3/4	1/2
6	1940	5GA X 1-1/2	8GA X 1-1/2	3/4	6-13/16	10-1/8	5-5/8	1-7/8	1/2
8	2000	3GA X 1-3/4	8GA X 1-3/4	7/8	8-5/16	12-5/8	7	2-1/8	5/8
10	3600	3/8 X 1-3/4	3GA X 1-3/4	7/8	9-7/8	15-1/4	8-3/8	2-1/4	3/4
12	3600	3/8 X 2	1/4 X 2	7/8	11-1/2	18	10-3/16	3	3/4
14	4200	1/2 X 2	1/4 X 2	1	12-7/16	19-7/16	10-13/16	2-15/16	7/8
16	4600	1/2 X 2-1/2	1/4 X 2-1/2	1	14-1/16	22-1/16	12-7/16	2-5/8	1
18	4800	1/2 X 2-1/2	1/4 X 2-1/2	1	15-1/2	24-3/4	13-15/16	3-7/8	1-1/8
** 20	4800	5/8 X 3	3/8 X 3	1-1/4	17-1/4-	27-3/8	14-7/16	4	1-1/4
** 24	4800	5/8 X 3	3/8 X 3	1-1/4	19-5/8	31-5/8	17-1/2	4-1/4	1-1/4
** 30	6000	3/4 X 3	3/8 X 3	1-1/4	24-1/8	39-1/8	21-7/8	5	1-1/4



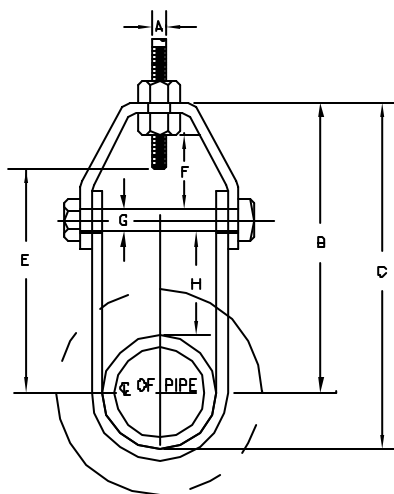


FIG. 62 & 62A

ELONGATED ADJ CLEVS FOR INSULATED PIPE

-STEEL OR STAINLESS UP TO 650°F _____ FIG. 62

-ALLOY STEEL UP TO 1050°F _____ FIG. 62A

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB.	SIZE OF STEEL		A	B	C	E	ADJUST- MENT F	G	H
		UPPER	LOWER							
3/4	610	1/8 X 1	1/8 X 1	3/8	3-5/8	4-1/4	2-7/8	1/2	1/4	2
1	610	1/8 X 1	1/8 X 1	3/8	4	4-11/16	3-1/4	5/8	1/4	2
1-1/4	610	1/8 X 1	1/8 X 1	3/8	4-7/16	5-1/4	3-5/8	7/8	1/4	2
1-1/2	610	1/8 X 1	1/8 X 1	3/8	4-3/4	5-3/4	4-1/16	1-1/16	1/4	2
2	610	1/8 X 1	1/8 X 1	3/8	7-7/16	8-11/16	6-1/2	1-5/8	1/4	4
2-1/2	1130	3/16 X 1-1/4	3/16 X 1-1/4	1/2	8-7/16	9-15/16	7-1/2	2	3/8	4
3	1130	3/16 X 1-1/4	3/16 X 1-1/4	1/2	8-5/8	10-5/16	7-9/16	1-3/4	3/8	4
4	1430	1/4 X 1-1/4	3/16 X 1-1/4	5/8	9-3/8	11-5/8	8-3/16	1-15/16	3/8	4
5	1430	1/4 X 1-1/4	3/16 X 1-1/4	5/8	9-7/8	12-5/8	8-3/4	1-3/4	1/2	4
6	1940	1/4 X 1-1/2	3/16 X 1-1/2	3/4	10-5/8	14	9-3/8	1-7/8	1/2	4
8	2000	1/4 X 1-3/4	3/16 X 1-3/4	7/8	12-3/8	16-3/4	11	2	5/8	4
10	3600	3/8 X 1-3/4	1/4 X 1-3/4	7/8	13-3/4	19-3/16	12-1/4	2-1/8	3/4	4
12	3800	3/8 X 2	1/4 X 2	7/8	15-1/8	21-9/16	13-5/8	2-7/16	3/4	4



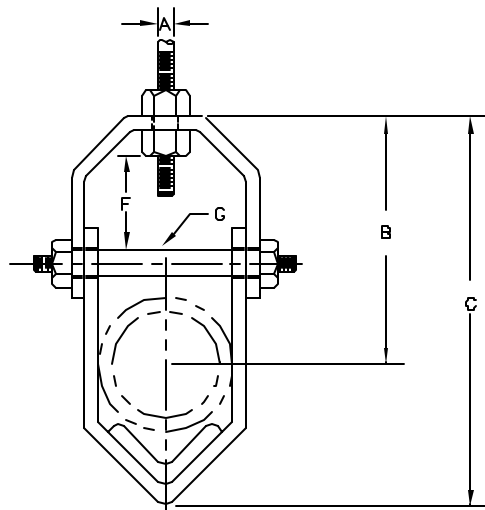


FIG. 64

V-ANGLE CLEVIS FOR HOSE OR PLASTIC PIPE__FIG. 64

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH.

NOTE:

ANGLE MUST BE ORDERED SEPARATELY.

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. LOAD, LB	STEEL SIZE	ROD SIZE A	B	C	ADJUST- MENT F	BOLT G
1/2 THRU 1 1/2	250	1/8 X 1	3/8	3-3/16	4-9/16	1-1/4	1/4
2	250	1/8 X 1	3/8	3-11/16	5-7/16	1-3/8	1/4
2 1/2 THRU 3	350	1/8 X 1-1/4	1/2	4-3/4	7-3/8	1-1/2	1/4
3 1/2 THRU 4	400	1/8 X 1-1/4	1/2	5-3/8	8-3/4	1-3/4	5/16
6	500	3/16 X 1-3/4	3/4	7-3/16	11-7/8	1-5/8	5/8

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PEAR SHAPE ADJ. RING OR
BAND HANGER____FIG. 66
PEAR SHAPE WITH PLASTIC
COATING____FIG. 66C
PEAR SHAPE WITH HOLE SIZE
PER NFPA____FIG. 66FP

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
PIPE SIZE,
MATERIAL AND FINISH.

CAUTION:

PEAR SHAPE HANGERS
DO NOT SPREAD EASY TO
GO ACROSS PIPE. THEY
MUST SLIP OVER THE
END OF PIPE.

NOTE:

NUTS AND WASHERS
SOLD SEPARATELY

FIG. 66

LOADS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD LB.	STEEL SIZE	ROD SIZE A	B	C	ROD TAKE-OUT E	ADJUST- MENT F
1/2	610	16GA X 1	3/8	1-13/16	2-5/16	1-1/8	1
3/4	610	16GA X 1	3/8	2-1/16	2-5/8	1-5/16	1
1	610	16GA X 1	3/8	2-3/16	2-7/8	1-7/16	1
1-1/4	610	16GA X 1	3/8	2-9/16	3-7/16	1-13/16	1-1/4
1-1/2	610	16GA X 1	3/8	2-3/4	3-11/16	1-15/16	1-1/4
2	610	1/8 X 1	3/8	3	4-3/16	2-3/16	1-1/4
2-1/2	970	1/8 X 1	1/2	3-7/8	5-5/16	3	1-3/4
3	970	1/8 X 1	1/2	4-1/4	6	3-5/16	1-3/4
3-1/2	970	1/8 X 1	1/2	4-1/2	6-1/2	3-9/16	1-3/4
4	1250	1/8 X 1-1/4	5/8	4-7/8	7-1/8	3-13/16	1-3/4
5	1250	1/8 X 1-1/4	5/8	5-11/16	8-7/16	4-5/8	2
6	1600	1/8 X 1-1/2	3/4	6-3/8	9-11/16	5-3/16	2
8	1800	3/16 X 1-1/2	7/8	7-9/16	11-7/8	6-3/16	2



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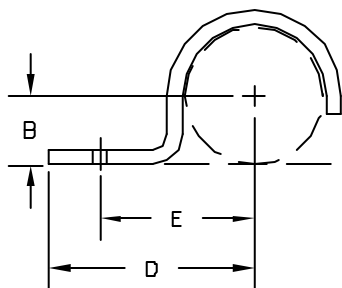


FIG.
70P & 70T

ONE HOLE PIPE CLAMP _____ FIG. 70P
ONE HOLE TUBE CLAMP _____ FIG. 70T

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE OR TUBE SIZE, MATERIAL & FINISH.

DIMENSIONS (INCHES)

SIZE	PIPE B	TUBE B	D	E	HOLE SIZE	STEEL SIZE
3/8	5/16	3/16	2	1-5/16	1/4	1/8 X 1
1/2	7/16	1/4	2-1/16	1-7/16	5/16	1/8 X 1
3/4	9/16	3/8	2-1/8	1-1/2	5/16	1/8 X 1
1	11/16	1/2	2-5/16	1-5/8	5/16	1/8 X 1
1-1/4	13/16	5/8	2-1/2	1-3/4	5/16	1/8 X 1
1-1/2	15/16	3/4	2-5/8	2	5/16	1/8 X 1
2	1-3/16	1	2-7/8	2-1/4	5/16	1/8 X 1
2-1/2	1-7/16	1-1/4	3-1/8	2-1/2	7/16	1/4 X 1-1/4
3	1-3/4	1-1/2	3-1/2	2-3/4	7/16	1/4 X 1-1/4
3-1/2	2	1-3/4	3-11/16	3-1/16	7/16	1/4 X 1-1/4
4	2-1/4	2	4-3/16	3-9/16	9/16	1/4 X 1-1/2



RING AND BOLT CLAMP, LIGHT_____FIG. 71L

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

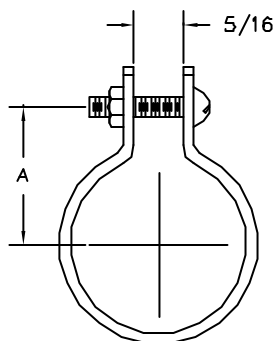
SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE , MATERIAL AND FINISH.

FIG. 71L

DIMENSIONS (INCHES)

PIPE SIZE	A	BOLT SIZE	STOCK SIZE	MAX. LOAD RATING LBS.
3/8	1	1/4	16GA. X 1	275
1/2	1-1/16	1/4	16GA. X 1	275
3/4	1-3/16	1/4	16GA. X 1	275
1	1-5/16	1/4	16GA. X 1	275
1-1/4	1-1/2	1/4	16GA. X 1	275
1-1/2	1-5/8	1/4	16GA. X 1	275
2	1-13/16	1/4	16GA. X 1	275
2-1/2	2-5/16	5/16	12GA. X 1-1/4	500
3	2-5/8	5/16	12GA. X 1-1/4	500
3-1/2	2-7/8	5/16	12GA. X 1-1/4	500
4	3-1/8	5/16	12GA. X 1-1/4	500
5	3-5/8	5/16	12GA. X 1-1/4	500
6	4-3/16	5/16	12GA. X 1-1/4	500

RING AND BOLT CLAMP, MEDIUM_____FIG. 71M

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

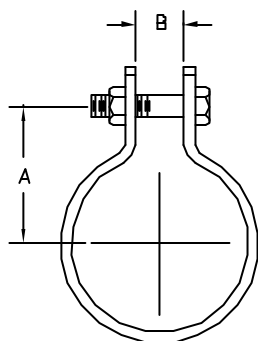
SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH.

FIG. 71M

DIMENSIONS (INCHES)

PIPE SIZE	A	B	BOLT SIZE	STEEL SIZE	MAX. RECOM. LBS.
1/2	1-1/8	7/16	3/8	1/8 X 1	500
3/4	1-1/4	7/16	3/8	1/8 X 1	500
1	1-3/8	7/16	3/8	1/8 X 1	500
1-1/4	1-5/8	7/16	3/8	1/8 X 1	500
1-1/2	1-11/16	7/16	3/8	1/8 X 1	500
2	2	7/16	3/8	1/8 X 1	500
2-1/2	2-1/4	9/16	3/8	1/8 X 1	500
3	2-9/16	9/16	3/8	1/8 X 1-1/4	900
3-1/2	2-13/16	9/16	3/8	1/8 X 1-1/4	900
4	3-7/16	11/16	1/2	1/8 X 1-1/4	900
5	4	11/16	1/2	1/8 X 1-1/4	900
6	4-11/16	13/16	1/2	3/16 X 1-1/4	1150
8	5-11/16	15/16	1/2	3/16 X 1-1/4	1150
10	6-7/8	15/16	1/2	1/4 X 1-1/2	1300
12	7-15/16	15/16	1/2	1/4 X 1-3/4	1500



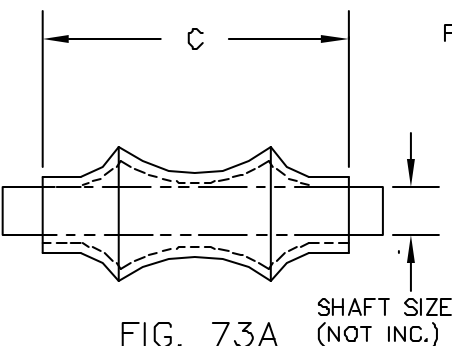
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PIPE ROLLS

- CAST IRON LONG ROLL_____FIG. 73A
 -CAST IRON SHORT ROLL
 (BOW TIE)_____FIG. 73B

ORDERING:

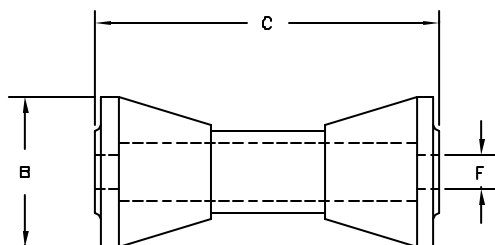
SPECIFY NAME, FIGURE NUMBER, PIPE
 SIZE, OR ROLL NUMBER.

NOTE:

ROLLS MUST BE SIZED TO FIT PIPE
 COVERING PROTECTION SADDLES ON
 INSULATED PIPE. FIG. 99 PROTECTION
 SADDLES MUST BE ORDERED SEPARATELY.

DIMENSIONS (INCHES)

PIPE SIZE	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2
C	1-1/2	1-7/8	2 1/8	2-5/8	3-1/8	3-3/4	4-1/4
F	3/8	3/8	3/8	3/8	1/2	1/2	1/2
PIPE SIZE	4	5	6	7	8	10	12
C	4-3/4	5-13/16	6-7/8	7-29/32	8-7/8	11-0	12-1/2
F	1/2	5/8	3/4	3/4	7/8	7/8	1
PIPE SIZE	14	16	18	20	24	30	36
C	14-1/4	16-1/4	18-1/4	20-1/4	24-1/4	30-1/4	36-1/4
F	1-1/8	1-1/4	1-1/4	1-1/4	1-1/2	1-3/4	2



DIMENSIONS (INCHES)

PIPE SIZE	C	B	ROD SIZE F
2-3-1/2	2-3/4	1-7/8	1/2
4-6	3-3/4	2-1/16	1/2
7-10	6	3-1/4	3/4
12-14	8	4	7/8
16-20	9	4-1/2	1-1/8
24	10	4-7/16	1-1/4
30	12-1/2	5-1/2	1-3/4
36	15	6-3/8	2
42	15	6-3/8	2



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ROLLER CHAIR WITH 2-BOLT BASE _____ FIG. 75 BOLT OR WELD TO SUPPORT

MATERIAL:

CAST IRON ROLL; STEEL CHAIR, ROD AND BOLTS

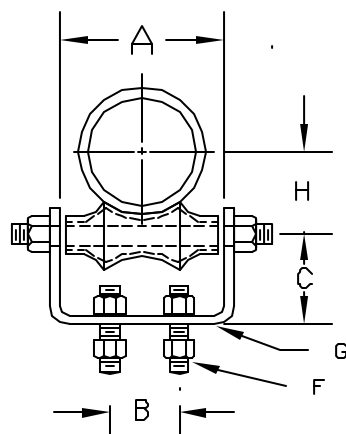
ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE.

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY



SEE FIG. 75SS
ALL STAINLESS STEEL

FIG. 75

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	BOLTS F	STEEL-SIZE G	H	SHAFT SIZE	MAX.REC. LOAD
2	2-3/4	1-1/4	1-1/2	3/8 X 1-1/2	1/4 X 1-1/4	1-5/8	3/8	600
2-1/2	3-1/4	1-1/4	1-5/8			1-15/16	1/2	600
3	3-7/8	2	1-3/4			2-1/4	1/2	600
3-1/2	4-3/8	2	2-1/16	3/8 X 1-1/2	3/8 X 1-1/2	2-9/16	1/2	750
4	4-15/16	2	2-5/16	1/2 X 1-1/2		2-13/16	1/2	750
5	6	3	2-1/2	1/2 X 1-1/2		3-7/16	5/8	750
6	7-1/8	3-1/8	2-3/4	1/2 X 1-1/2	3/8 X 2	4	3/4	1070
8	9-1/8	3-3/8	3	5/8 X 1-1/2		5-1/8	7/8	1350
10	11-1/4	5-1/4	3-5/8	5/8 X 2	1/2 X 2	6-3/8	7/8	1730
12	12-3/4	5-1/2	4-1/8			7-7/16	1	2400
14	14-1/2	6-1/2	4-11/16	3/4 X 2	1/2 X 2-1/2	8-3/8	1-1/8	3130
16	16-1/2	8-1/4	5-3/8	3/4 X 2-1/2	1/2 X 3	9-3/8	1-1/4	3970
18	18-1/2	9-1/4	6			10-7/16	1-1/4	4200
20	20-1/2	10-1/4	6-1/2			11-5/8	1-1/4	4200
24	24-1/2	12-1/4	7-7/8	7/8 X 3-1/2	5/8 X 4	14	1-1/2	4200



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ROLLER CHAIR WITH 2-BOLT BASE _____ FIG. 75SS

BOLT OR WELD TO SUPPORT

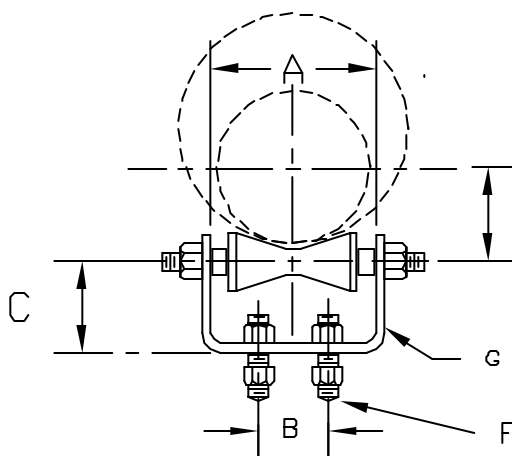
MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE.

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING PROTECTION SADDLES ON INSULATED PIPE. FIG. 99 PROTECTION SADDLES MUST BE ORDERED SEPARATELY



ALL STAINLESS STEEL
SEE FIG. 75XH
FOR HEAVIER LOADS.

FIG. 75SS

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	BOLTS F	STEEL-SIZE G	H	SHAFT SIZE	GSH ROLL	MAXIMUM LOAD
2	3-1/4	1-1/4				1-3/4			225
2-1/2	3-1/4	1-1/4				2			225
3	3-7/8	2	2-3/8	3/8 X 1-1/2	1/4 X 1-1/4	2-5/16	1/2	A	390
3-1/2	4-3/8	2	2-3/8	3/8 X 1-1/2		2-5/8	1/2	A	390
4	4-15/16	2	2-3/8	1/2 X 1-1/2	3/8 X 1-1/2	2-7/8	1/2	A	300
5	6	3	2-5/8	1/2 X 1-1/2		3-11/16	3/4	B	600
6	7-1/8	3-1/8	2-5/8	1/2 X 1-1/2	3/8 X 2	4-1/4	3/4	B	600
8	9-1/8	3-3/8	3-3/4	5/8 X 1-1/2		5-11/16	1	C	925
10	11-1/4	5-1/4	3-3/4			6-7/16	1		925
12	12-3/4	5-1/2	4-1/16	5/8 X 2	1/2 X 2	7-1/2	1	C	680
14	14-1/2	6-1/2	4-3/8	3/4 X 2	1/2 X 2-1/2	8-11/16	1-1/4	D	1200
16	16-1/2	8-1/4	5-5/16			9-7/16	1-1/4	D	1100
18	18-1/2	9-1/4	5-15/16	3/4 X 2-1/2	1/2 X 3	10-1/2	1-3/8	D20	1200
20	20-1/2	10-1/4	6-9/16			11-9/16	1-3/8	D20	1000

FOR 24" SIZE SEE FIG. 75XH



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EXTRA HEAVY

ROLLER CHAIR WITH 2-BOLT BASE _____ FIG. 75XH
BOLT OR WELD TO SUPPORT

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

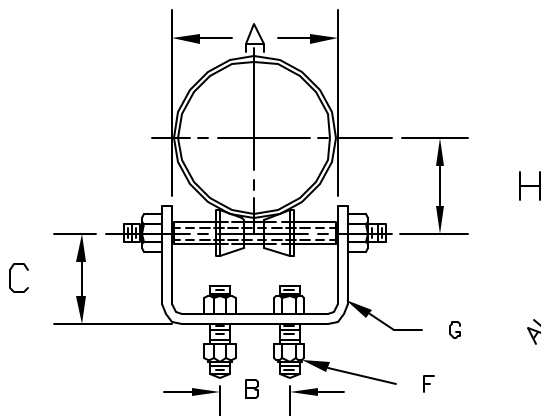
SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND
PIPE SIZE.NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING
PROTECTION SADDLES ON INSULATED PIPE. FIG. 99
PROTECTION SADDLES MUST BE ORDERED SEPARATELYALL STAINLESS STEEL
FOR LIGHTER LOADS
SEE FIG. 75SS

FIG. 75XH

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	BOLTS F	STEEL-SIZE G	H	SHAFT SIZE	MAX.REC. LOADS	ROLL NUMBER
2 2-1/2 3 3-1/2 4 5 6									
8	9-1/8	3-3/8	3	5/8 X 1-1/2					
10	11-1/4	5-1/4	3-5/8	5/8 X 2	5/8 X 3	5-7/16	7/8	1360	E-1
12	12-3/4	5-1/2	4-1/8	5/8 X 2		6-9/16		1730	
						7-5/8		2400	
14	14-1/2	6-1/2	4-11/16	3/4 X 2	5/8 X 3	8-5/16	1	3130	E-1
16	16-1/2	8-1/4	5-3/8	3/4 X 2-1/2	5/8 X 4	9-1/4	1-1/4	3970	E-2
18	18-1/2	9-1/4	6	3/4 X 2-1/2		10-5/16		4200	
20	20-1/2	10-1/4	6-1/2	3/4 X 2-1/2	5/8 X 4	11-3/8	1-1/4	4200	E-2
24	24-1/2	12-1/4	7-7/8	7/8 X 3-1/2		13-5/8			E-3

SEE FIG. 75SS FOR SIZES 6" AND SMALLER

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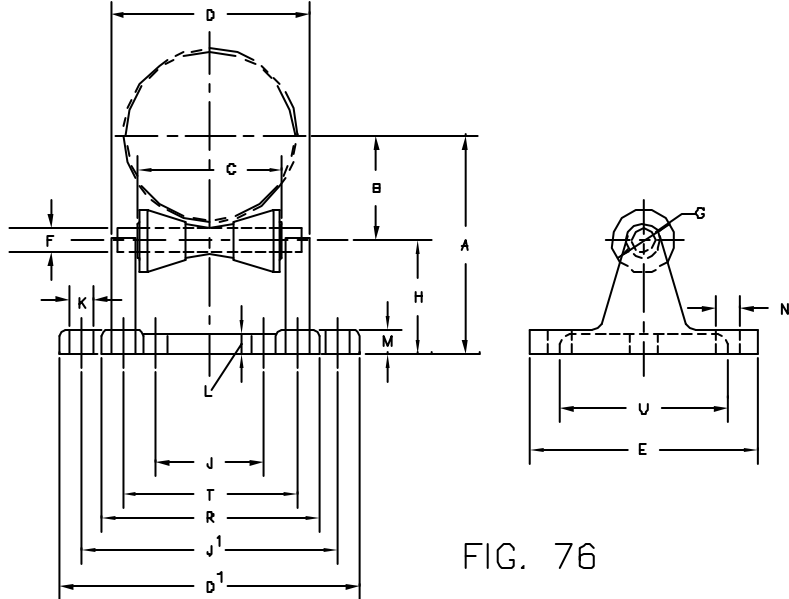


FIG. 76

PIPE ROLL STAND _____ FIG. 76

MATERIAL:

CAST IRON ROLL AND STAND

ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

LOADS-WEIGHTS

PIPE SIZE	2 THRU 3 1/2	4 THRU 6	8 THRU 10	12 THRU 14	16 THRU 20	24	30	36 THRU 42
MAX. RECOM. LOAD LB.	390	850	2100	3075	4980	8100	7500	12000
COMPLETE FIG. 76 WGT. (APPROX.) LBS. EACH	8.4	8.9	15.3	28.1	38.7	49.6	99.3	152.0

DIMENSIONS (INCHES)

PIPE SIZE	A	B	H	D	D ¹	E	C	G	F	J	J ¹	K	L	M	N	R	T	U
2 2-1/2 3 3-1/2	3-1/2 3-7/8 4-1/8 4-3/8	1-3/4 2-1/8 2-3/8 2-5/8	1-3/4	4	8-3/8	5-3/8	2-3/4	1-7/8	1/2	-	8-3/8	1	9/16	11/16	1/2	-	3-7/16	4
4 5 6	4-13/16 3-7/16 6-1/16	2-3/4 3-3/8 4	2-1/16	5-3/8	9-7/8	5-3/8	3-3/4	2-1/16	1/2	-	7-7/8	1	3/4	7/8	1/2	-	4-11/16	4-1/4
8 10	8-11/16 9-13/16	5-1/4 6-3/8	3-7/16	7-3/4	-	8-5/8	8	3-1/4	3/4	4	-	1	3/4	7/8	5/8	8-5/8	7	5
12 14	11-3/8 12	7-1/2 8-1/8	3-7/8	9-7/8	-	7-7/8	8	4	7/8	5 3/4	-	1	3/4	7/8	3/4	10-15/16	9-1/16	8
16 18 20	13-5/8 14-5/8 15-5/8	8-3/8 10-3/8 11-3/8	4-1/4	11-1/4	-	8-5/8	9	4-1/2	1-1/8	6-3/4	-	1	7/8	1	13/16	12-3/8	10-1/4	6-1/2
24	17-3/4	13-3/8	4-3/8	12-1/2	-	8-5/8	- 10	4-7/16	1-1/4	7-1/2	-	1	1	1-1/8	13/16	13-1/2	11-3/8	6-1/2
30	21-7/8	16-3/4	5-1/8	15-3/4	-	10-3/4	12-1/2	5-1/2	1-3/4	10	-	1	1-1/4	1-1/2	1-1/16	17	14-1/4	8
36 42	25-3/4 28-7/8	20 23-1/8	5-3/4	18-3/4	-	12	15	6-3/8	2	12	-	1	1-1/2	1-3/4	1-8/16	20	17	8

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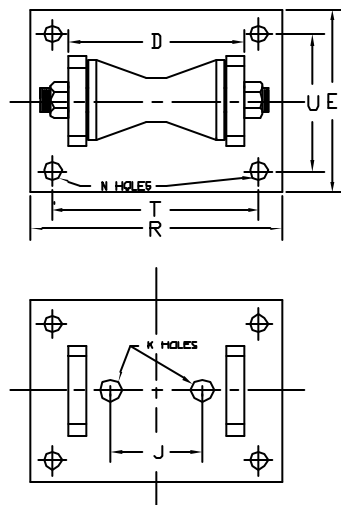
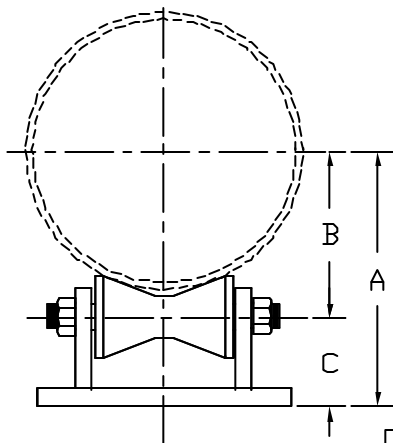


FIG. 76SS

STAINLESS STEEL PIPE ROLL STAND_____FIG. 76SS

MATERIAL:

STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, TYPE STAINLESS & PIPE SIZE

NOTE: ROLL MUST BE SIZED TO FIT PIPE COVERING PROTECTION
SADDLE ON INSULATED PIPE. FIG. 99 SADDLE MUST BE
ORDERED SEPARATELY.

DIMENSIONS — LOADS

* PIPE SIZE	A	B	C	D	GSH ROLL	E	J	K HOLE	N HOLE	R	T	U	MAX. REC. LOAD
2	3-1/2	1-3/4	1-3/4							5.5	3.44	4.0	
2-1/2	3-7/8	2-0	1-7/8							5.5	3.44	4.0	
3	4-1/8	2-5/16	1-13/16	4.0	A	6.00	-	-	.5	5.5	3.44	4.0	950
3-1/2	4-3/8	2-5/8	1-3/4							5.5	3.44	4.0	
4	4-13/16	2-7/8	1-15/16							7.0	4.69	4.25	
5	5-11/16	3-11/16	2-0	5.0	B	6.00	-	-	.5	7.0	4.69	4.25	1500
6	6-1/4	4-1/4				6.00	-	-	.5	7.0	4.69	4.25	1500
7	8-3/16	5-3/16	3-0										
8	8-11/16	5-11/16	3-0	7.5	C	7.00	4.00	1.00	.63	9.0	7.0	5.0	3500
8DI	9-1/16	5-11/16	3-3/8										
10	9-13/16	6-7/16	3-3/8										
10DI	10-3/4	6-7/8											
12	11-3/8	7-1/2	3-7/8	7.5	C	8.00	4.00	1.00	.75	11.0	9.06	6.0	3500
12DI	11-13/16	7-15/16											
14	12	8-11/16	3-5/16	9.5		8.00			.75	11.0	9.06	6.0	
14DI	13-1/2	9-5/16	4-3/16	9.5		9.00			.81	12.38	10.25	6.5	
16	13-5/8	9-7/16	4-3/16	9.5	D	9.00	6.00	1.00	.81	12.38	10.25	6.5	5000
16DI	14-9/16	10-7/16	4-1/8	9.75		9.00			.81	12.38	10.25	6.5	
18	14-5/8	10-1/2	4-1/8	9.75		9.00			.81	12.38	10.25	6.5	
18DI/20	15-5/8	11-9/16	4-1/8	9.75		9.00			.81	12.38	10.25	6.5	

* SEE FIG. 76XH FOR LARGER SIZES

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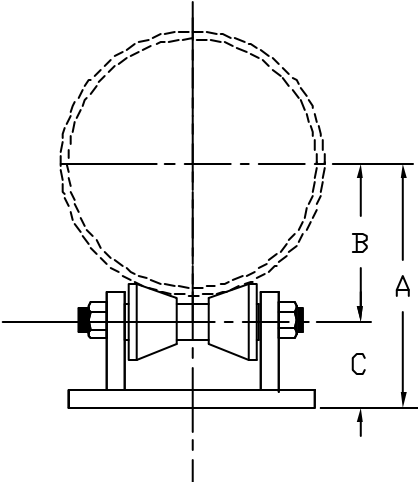
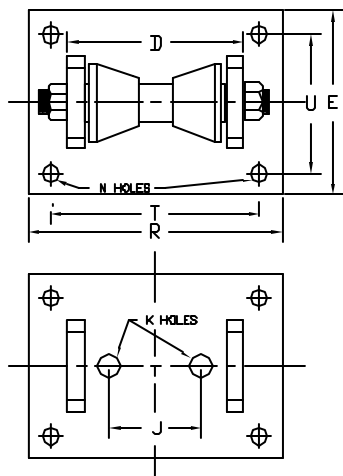


FIG. 76XH



EXTRA HEAVY
STAINLESS STEEL PIPE ROLL STAND _____ FIG. 76XH

MATERIAL:
STAINLESS STEEL

ORDERING:
SPECIFY NAME, FIGURE NUMBER, TYPE STAINLESS & PIPE SIZE

NOTE: ROLL MUST BE SIZED TO FIT PIPE COVERING PROTECTION
SADDLE ON INSULATED PIPE. FIG. 99 SADDLE MUST BE
ORDERED SEPARATELY.

DIMENSIONS — LOADS

* PIPE SIZE	A	B	C	D	GSH ROLL	E	J	K HOLE	N HOLE	R	T	U	MAX. REC. LOAD
8 8DI 10	8-11/16 9-1/16 9-13/16	5-7/16 5-13/16 6-9/16	3-1/4	8.25	E1	7.00	4.00	1.00	.63	9.0	7.0	5.0	3500
10DI 12 12DI 14	10-11/16 11-3/8 11-3/4 12-1/16	6-15/16 7-5/8 8 8-5/16	3-3/4	8.25	E1	8.00	4.00	1.00	.75	11.0	9.06	6.0	3500
14DI 16 16DI 18 18DI/20	13-1/2 13-5/8 14-9/16 14-5/8 15-5/8	9-1/8 9-1/4 10-1/4 10-5/16 11-3/8	4-3/8 4-3/8 4-5/16 4-5/16 4-1/4	9.75 9.75 10 10 10	E2	9.00	6.00	1.00	.81	12.38	10.25	6.5	5000
20DI 24	16-3/4 17-3/4	12-5/8 13-5/8	4-1/8	13.25	E3	9.00	7.5	1.00	.81	14.00	11.38	6.5	7290
24DI 30 30DI	19-15/16 21-7/8 22-15/16	14-11/16 16-5/8 17-11/16	5-1/4	15.25	E4	11.00	10.0	1.00	1.06	17.00	14.25	8.0	7290

* SEE FIG. 76SS FOR SMALLER SIZES.



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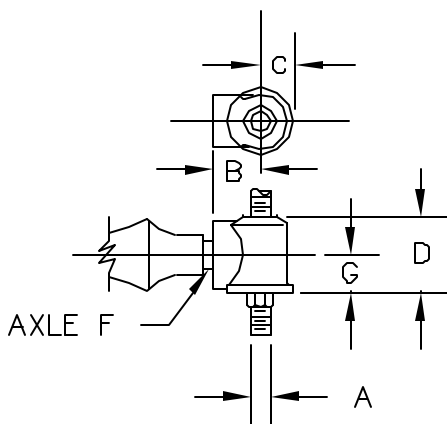


FIG.77A

ADJUSTABLE ROLL SOCKET, CAST IRON__FIG. 77A

ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND
SOCKET NUMBER.

DIMENSIONS (INCHES)

SOCKET NUMBER	PIPE SIZE	A HANGER ROD SIZE	F ROLL ROD SIZE	G	B	C	D
1- 3/8 2- 1/2	1-2 2-1/2 THRU 3-1/2	3/8 1/2	3/8 1/2	5/8 3/4	11/16 13/16	11/16 11/16	1 1-1/4
3- 1/2 3- 5/8 4- 3/4	4 5 6	5/8 5/8 3/4	1/2 5/8 3/4	7/8 5/8 1	15/16 15/16 1-5/16	13/16 13/16 1	1-9/16 1-9/16 1-13/16
5- 7/8 5- 1	8-10 12	7/8 7/8	7/8 1	1-1/4 1-1/4	1-7/16 1-7/16	1-1/8 1-1/8	2-3/16 2-3/16
6- 1-1/8 6- 1-1/4	14 16-18	1 1	1-1/8 1-1/4	1-3/8 1-3/4	1-5/8 1-7/8	1-3/8 1-3/8	2-3/8 3-3/16
8- 1-1/4 9- 1-1/2	20 24	1-1/4 1-1/2	1-1/4 1-1/2	1-13/16 1-13/16	2-1/8 2-1/8	1-5/8 1-5/8	3-5/16 3-5/16
9- 1-3/4	30	1-1/2	1-3/4	2-3/16	2-1/2	2-1/16	4

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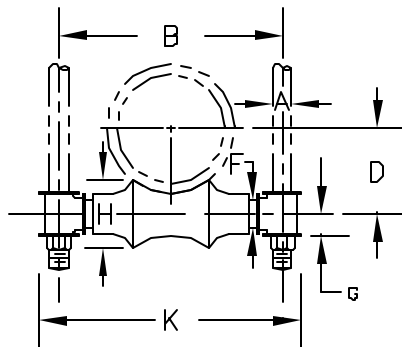


FIG. 77

ROLL TYPE HANGER FOR 2-ROD SUPPORT _____ FIG. 77

MATERIAL:

CAST IRON ROLL AND SOCKETS; STEEL ROLL ROD

ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY.

HANGER RODS AND NUTS MUST BE ORDERED SEPARATELY.

DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD LBS.	HANGER ROD SIZE A	B	D	ROLL ROD F	H	K	G
1 1-1/4 1-1/2 2	600 600 600 600	3/8	3 3-3/8 3-5/8 4-1/8	1 1-1/4 1-3/8 1-5/8	3/8	1 1-1/8 1-1/4	4-1/8 4-1/2 4-3/4 5-1/4	5/8
2 1/2 3	600 700	1/2	4-7/8 5-1/2	2 2-1/4	1/2	1-3/8 1-1/2	7 7-5/8	11/16
4 5	700 700	5/8	6-3/4 8-1/16	2-7/8 3-1/2	1/2 5/8	1-3/4 2	8-5/8 9-7/8	3/4 7/8
6 7	1000 1200	3/4	9-5/8 10-3/4	4 4-3/4	3/4	2-3/8 2-7/8	11-3/8 12-1/2	1
8 10 12	1300 1700 2400	7/8	12 14-1/8 15-13/16	5-1/8 6-1/4 7-1/2	7/8 7/8 1	2-3/4 3-3/8 4	14 16 18	1-1/8 1-1/8 1-1/4
14 16 18	3100 3900 4200	1	17-3/4 19-7/8 21-7/8	8-3/8 9-1/2 10-1/2	1-1/8 1-1/4 1-1/4	4-3/4 5 5-1/2	20 22-1/8 24-3/8	1-3/8 1-1/2 1-1/2
20 24 30	4500 8100 7200	1-1/4 1-1/2 1-1/2	24-1/8 28-5/8 35-1/2	11-5/8 14 17-1/2	1-1/4 1-1/2 1-3/4	6 7-1/4 9	26-5/8 32-1/8 39-7/8	1-5/8 1-3/4 2-7/16



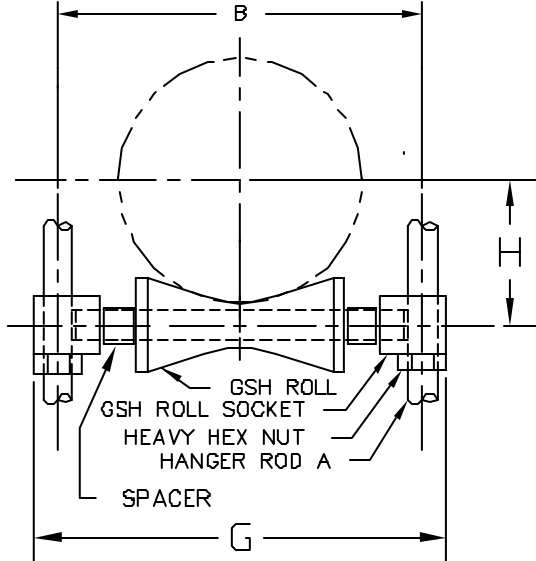


FIG. 77SS

ALL STAINLESS STEEL
FOR HEAVIER LOADS
SEE FIG. 77XH

STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT—FIG. 77SS

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

HANGER RODS AND NUTS MUST BE ORDERED SEPARATELY

DIMENSIONS (INCHES)

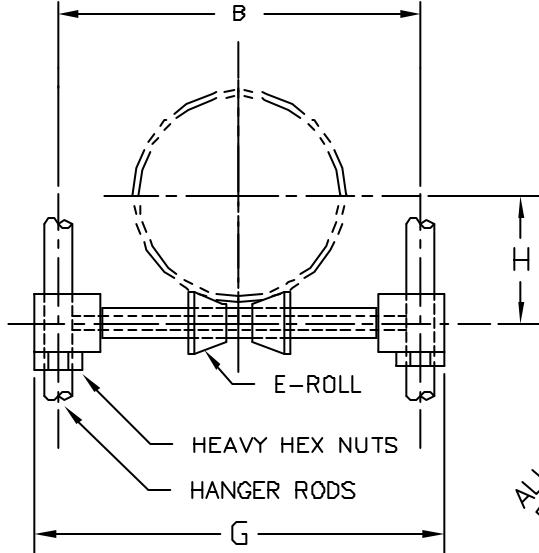
PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD-A SIZE	77A-SS SOCKET SIZE NO.	GSH ROLL	B	H	G	MAXIMUM RECOM. LOAD LBS.
2	4-1/2	1/2	2 X 1 1/2	A	5-1/2	1-3/4	7	600
2-1/2	4-1/2	1/2	2 X 1 1/2	A	5-1/2	2	7	660
3	4-1/2	1/2	2 X 1 1/2	A	5-1/2	2-5/16	7	700
3-1/2	5	1/2	2 X 1 1/2	A	6-1/8	2-5/8	7-5/8	700
4	5	5/8	3 X 1 1/2	A	6-3/4	2-7/8	8-1/4	400
5	7	3/4	4 X 3/4	B	8-1/16	3-11/16	9-9/16	750
6	8-1/4	3/4	4 X 3/4	B	9-9/16	4-1/4	11-1/16	580
7	10-1/2	7/8	5 X 1	C	11-15/16	5-3/16	13-15/16	1300
8	10-1/2	7/8	5 X 1	C	11-15/16	5-11/16	13-15/16	1300
10	12-3/4	7/8	5 X 1	C	14-1/16	6-7/16	16-1/16	1075
12	14-3/4	7/8	5 X 1	C	15-13/16	7-1/2	17-13/16	775
14	16-1/4	1	6 X 1-1/4	D	17-3/4	8-11/16	19-3/4	1500
16	18	1	6 X 1-1/4	D	19-3/4	9-7/16	21-3/4	1150
18	20-1/4	1	6 X 1-3/8	D ₂₀	21-7/8	10-1/2	24-3/8	1250
20	22-1/2	1-1/4	8 X 1-3/8	D ₂₀	24-1/4	11-9/16	28-3/4	1000



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ALL STAINLESS STEEL
FOR SMALLER LOADS
SEE FIG. 77SS

STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT—FIG. 77XH

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

HANGER RODS AND NUTS MUST BE ORDERED SEPARATELY

DIMENSIONS (INCHES)

PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD—A SIZE	SOCKET NO.	GSH ROLL NO.	B	H	G	MAXIMUM RECOM. LOAD LBS.
8	10-1/2	7/8	E1	E1	11-15/16	5-7/16	13-15/16	1350
8DI * 10	12-3/4	7/8	E1	E1	14-1/16	5-13/16 6-9/16	16-1/16	1730
10DI 12	14-3/4	7/8	E1	E1	15-13/16	6-15/16 7-5/8	17-13/16	2400
12DI 14	16-1/4	1	E2	E1	17-3/4	8 8-5/16	19-3/4	3130
14DI 16	18	1	E3	E2	19-3/4	9-1/8 9-1/4	21-3/4	3970
16DI 18	20-1/4	1	E3	E2	21-7/8	10-1/4 10-5/16	24-3/8	4200
18DI & 20 20DI	22-1/2	1-1/4	E4	E2	24-1/4	11-3/8	26-1/4	4550
20DI 24	26-1/2	1-1/2	E5	E3	28-5/8	12-5/8 13-5/8	31-1/8	6160
24DI 30 30DI	33-1/2	1-1/2	E5	E4	35-1/2	14-11/16 16-5/8 17-11/16	38	7290

* DUCTILE IRON PIPE SIZE.



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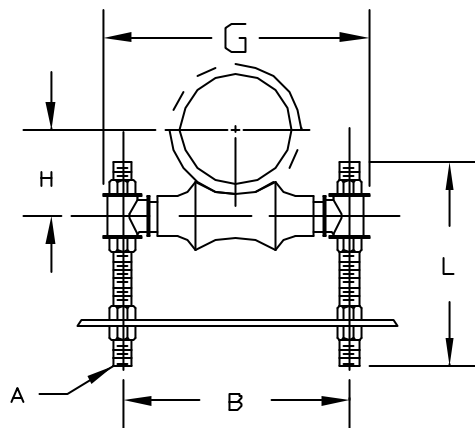


FIG. 78

SEE FIG. 78SS
ALL STAINLESS STEEL

ADJUSTABLE ROLL SUPPORT WITH 2-RODS—FIG. 78

MATERIAL:

CAST IRON ROLL AND SOCKETS; STEEL ROLL ROD
ALL THREAD ROD AND NUTS

ORDERING:

SPECIFY NAME, FIGURE NUMBER, AND PIPE SIZE

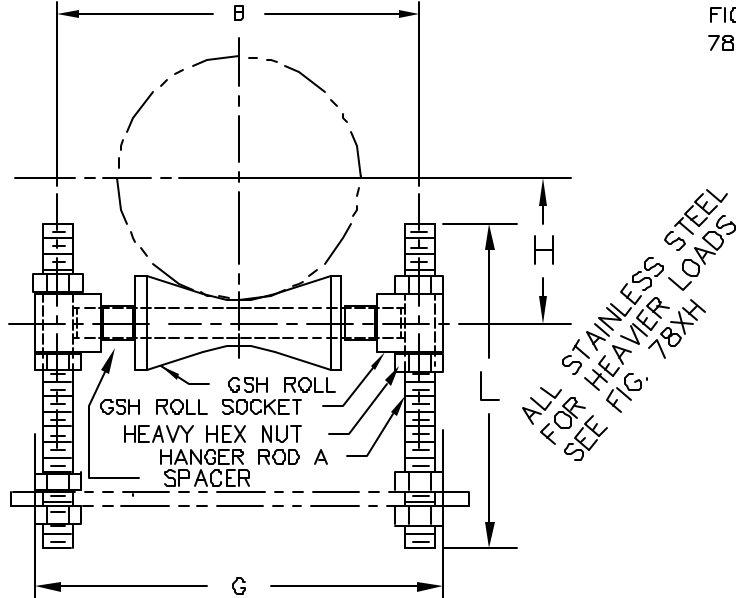
NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING
PROTECTION SADDLES ON INSULATED PIPE. FIG. 99
PROTECTION MUST BE ORDERED SEPARATELY.

STEEL SUPPORT PLATE IS NOT INCLUDED.

DIMENSIONS IN INCHES

PIPE SIZE	MAX. RECOM. LOAD, LBS.	B	H	ROD A	G	L
1-1/4	600	3-3/8	1-1/4	3/8	4-1/2	12
1-1/2	600	3-5/8	1-3/8	3/8	4-3/4	12
2	600	4-1/8	1-5/8	3/8	5-1/4	12
2-1/2	660	4-7/8	1-15/16	1/2	6-1/4	12
3	700	5-1/2	2-1/4	1/2	6-7/8	12
4	750	6-3/4	2-13/16	5/8	8-1/4	12
5	750	8-1/16	3-7/16	5/8	9-11/16	12
6	1070	9-9/16	4	3/4	11-7/16	12
7	1070	10-3/4	4-5/8	3/4	14-1/16	12
8	1350	11-15/16	5-1/8	7/8	14-1/16	12
10	1730	14-1/16	6-3/8	7/8	16-3/16	12
12	2400	15-13/16	7-7/16	7/8	18	12
14	3100	17-3/4	8-3/8	1	20-1/8	12
16	3970	19-3/4	9-7/16	1	22-1/8	18
18	4200	21-7/8	10-1/2	1	24-1/2	18
20	4550	24-1/4	11-5/8	1-1/4	27-1/4	18
24	6160	28-5/8	14	1-1/2	32-1/8	24
30	7290	35-1/2	17-7/16	1-1/2	39	24





ADJUSTABLE
STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT__FIG. 78SS
MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

ALL THREAD ROD & HEX NUTS ARE INCLUDED.

STEEL SUPPORT PLATE IS NOT INCLUDED.

DIMENSIONS (INCHES)

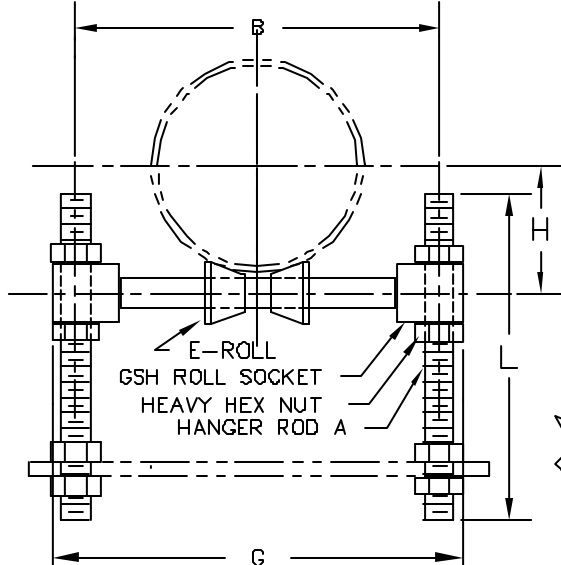
PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD-A SIZE	SOCKET NO.	GSH ROLL	B	H	G	L	MAXIMUM RECOM. LOAD LBS.
2	4-1/2	1/2	A1	A	5-1/2	1-3/4	7	12	500
2-1/2	4-1/2	1/2		A	5-1/2	2	7		860
3	4-1/2	1/2		A	5-1/2	2-5/16	7		700
3-1/2	5	1/2		A	6-1/8	2-5/8	7-5/8		700
4	6	5/8	A2	A	6-3/4	2-7/8	8-1/4	12	400
5	7	3/4	B	B	8-1/16	3-11/16	9-9/16		750
6	8-1/4	3/4		B	9-9/16	4-1/4	11-1/16		580
7	10-1/2	7/8	C	C	11-15/16	5-3/16	13-15/16	12	1300
8	10-1/2	7/8		C	11-15/16	5-11/16	13-15/16		1300
10	12-3/4	7/8		C	14-1/16	6-7/16	15-1/16		1075
12	14-3/4	7/8		C	15-13/16	7-1/2	17-13/16		775
14	16-1/4	1	D1	D	17-3/4	8-11/16	19-3/4	12	1500
16	18	1	D1	D	19-3/4	9-7/16	21-3/4	18	1150
18	20-1/4	1	D2	D20	21-7/8	10-1/2	24-3/8	18	1250
20	22-1/2	1-1/4	D3	D20	24-1/4	11-9/16	26-3/4	18	1000



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ALL STAINLESS STEEL
FOR SMALLER LOADS
SEE FIG. 78SS

ADJUSTABLE
STAINLESS ROLL TYPE HANGER FOR 2-ROD SUPPORT FIG. 78XH
MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

ALL THREAD ROD & HEX NUTS ARE INCLUDED.

STEEL SUPPORT PLATE IS NOT INCLUDED.

DIMENSIONS (INCHES)

PIPE HANGER SIZE	MAX. O.D. COVERING	HANGER ROD-A SIZE	SOCKET NO.	GSH ROLL NO.	B	H	G	L	MAXIMUM RECOM. LOAD LBS.
8	10-1/2	7/8	E1	E1	11-15/16	5-7/16	13-15/16	12	1350
8DI* 10	12-3/4	7/8	E1	E1	14-1/16	5-13/16 6-9/16	16-1/16	12	1730
10DI 12	14-3/4	7/8	E1	E1	15-13/16	6-15/16 7-5/8	17-13/16	12	2400
12DI 14	16-1/4	1	E2	E1	17-3/4	8-5/16	19-3/4	12	3130
14DI 16	18	1	E3	E2	19-3/4	9-1/8 9-1/4	21-3/4	18	3970
16DI 18	20-1/4	1	E3	E2	21-7/8	10-1/4 10-5/16	24-3/8	18	4200
18DI & 20	22-1/2	1-1/4	E4	E2	24-1/4	11-3/8	26-1/4	18	4550
20DI 24	26-1/2	1-1/2	E5	E3	28-5/8	12-5/8 13-5/8	31-1/8	24	6160
24DI 30 30DI	33-1/2	1-1/2	E5	E4	35-1/2	14-11/16 16-5/8 17-11/16	38	24	7290

* DUCTILE IRON PIPE SIZE.



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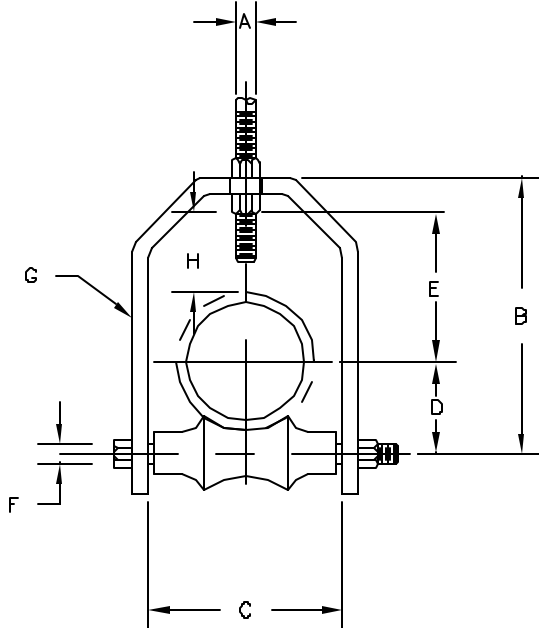


FIG. 79

ROLL HANGER WITH YOKE FOR SINGLE SUPPORT_____FIG. 79

MATERIAL:

CAST IRON ROLL; STEEL YOKE, ROLL ROD AND NUTS

ORDERING:

SPECIFY NAME, FIGURE NUMBER AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE. FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY

LOADS-DIMENSIONS-INCHES

PIPE SIZE	MAXIMUM O.D. OF COVERING	MAX.RECOM LOAD, LB.	ROD A	B	C	D	E	F	G	H
2-1/2	3	225	1/2	5-3/4	3-1/4	1-15/16	2-7/8	1/2	3/16 X 1-1/4	1-11/16
3	3-5/8	310	1/2	6-3/8	3-7/8	2-1/4	3-1/8	1/2	3/16 X 1-1/4	1-5/8
3-1/2	4-1/8	390	1/2	7	4-3/8	2-9/16	3-1/2	1/2	1/4 X 1-1/4	1-11/16
4	4-11/16	475	5/8	7-9/16	4-15/16	2-13/16	3-5/8	1/2	1/4 X 1-1/2	1-5/8
5	5-3/4	685	5/8	9-1/16	6	3-7/16	4-1/2	5/8	3/8 X 1-3/4	1-15/16
6	6-7/8	780	3/4	10-5/16	7-1/8	4	5	3/4	3/8 X 2	1-7/8
8	9	780	7/8	12-11/16	9-1/4	5-1/8	6-1/8	7/8	3/8 X 2-1/2	2
10	11	965	7/8	15-1/16	11-1/4	6-3/8	7-1/4	7/8	3/8 X 2-1/2	2-1/16
12	13	1200	7/8	17-7/16	13-1/4	7-7/16	8-3/8	1	1/2 X 2-1/2	2-1/4
14	14-1/4	1200	1	18-7/8	14-1/2	8-3/8	8-3/4	1-1/8	1/2 X 2-1/2	2
16	16-1/4	1200	1	20-13/16	16-1/2	9-3/8	9-11/16	1-1/4	1/2 X 2-1/2	1-15/16
18	18-1/4	1400	1	23-3/4	18-1/2	10-7/16	11-7/16	1-1/4	1/2 X 3	2-13/16
20	20-1/4	1600	1 1/4	26	20-1/2	11-5/8	12-1/4	1-1/4	5/8 X 3	2-1/2

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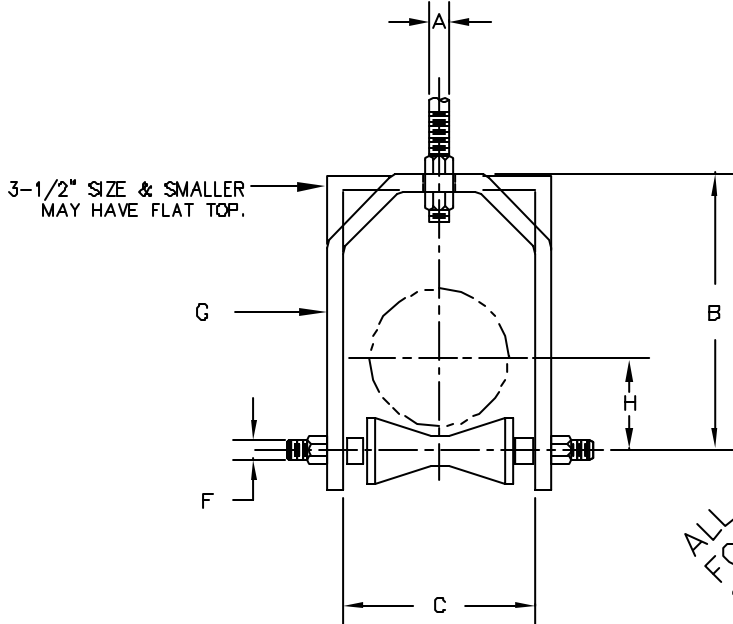


FIG. 79SS

STAINLESS YOKE AND ROLL HANGER _____ FIG. 79SS

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY.

ALSO AVAILABLE WITH CI ROLL AND STAINLESS
YOKE AND AXLE ROD.

LOADS-DIMENSIONS-INCHES

PIPE SIZE	MAXIMUM O.D. COVERING	MAX. RECOM. LOADS, LBS.	HANGER ROD-A	B	C	H	FIG. 79SS ROLL SIZE	AXLE ROD F	STEEL SIZE G
2 THRU 2-1/2	3	225	1/2	5	3-1/4	1-3/4 - 2	A	1/2	1/4 X 2
3 THRU 3-1/2	4-1/8	390	1/2	6-3/4	4-3/8	2-5/16 - 2-5/8		1/2	3/8 X 2
4	4-3/4	300	5/8	7-1/2	5	2-7/8		1/2	3/8 X 2
5 THRU 6	7	800	3/4	10	7-1/4	3-11/16 - 4-1/4	B	3/4	3/8 X 2-1/2
7 THRU 8	9	925	7/8	12-1/2	9-1/4	5-3/16 - 5-11/16	C	1	3/8 X 2-1/2
10	11	925	7/8	15	11-1/4	6-7/16		1	1/2 X 2-1/2
12	13	680	7/8	17	13-1/4	7-1/2		1	1/2 X 2-1/2
14	14-1/4	1200	1	18-3/8	14-1/2	8-11/16	D	1-1/4	1/2 X 2-1/2
16	16-1/4	1100	1	20-1/2	16-1/2	9-7/16	D	1-1/4	1/2 X 2-1/2
18	18-1/4	1200	1	23-1/4	18-1/2	10-1/2	D20	1-3/8	1/2 X 3
20	20-1/4	1000	1-1/4	25-1/2	20-1/2	11-9/16	D20	1-3/8	1/2 X 3



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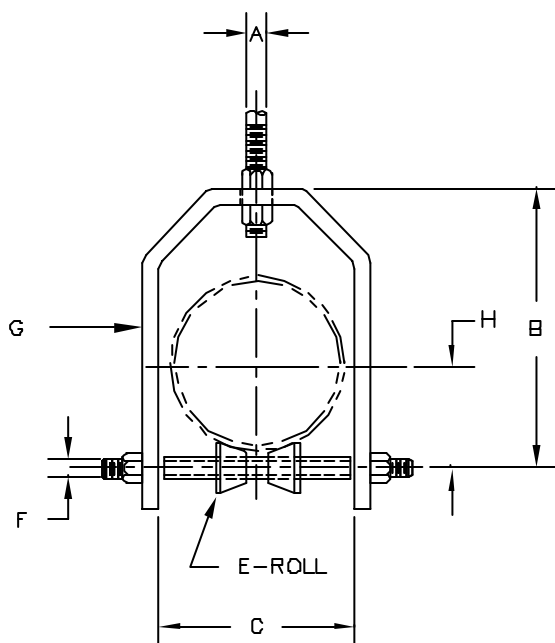


FIG. 79XH

ALL STAINLESS STEEL
SEE FIG. 79SS FOR 6"
AND SMALLER SIZES

EXTRA HEAVY
STAINLESS YOKE AND ROLL HANGER _____ FIG. 79XH

MATERIAL:

ALL PARTS STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, STAINLESS TYPE, AND PIPE SIZE

NOTE: ROLLS MUST BE SIZED TO FIT PIPE COVERING

PROTECTION SADDLES ON INSULATED PIPE, FIG. 99

PROTECTION SADDLES MUST BE ORDERED SEPARATELY.

LOADS-DIMENSIONS-INCHES

PIPE SIZE	MAXIMUM O.D. COVERING	MAX. RECOM. LOADS, LBS.	HANGER ROD-A	B	C	H	ROLL NO.	AXLE ROD F	STEEL SIZE G
SEE FIG. 79SS FOR 6" AND SMALLER SIZES									
7 THRU 8	9	925	7/8	12-1/2	9-1/4	5-7/16	E-1	7/8	3/8 X 2-1/2
10	11	1200	7/8	15	11-1/4	6-9/16			1/2 X 2-1/2
12	13	1200	7/8	17	13-1/4	7-5/8			1/2 X 2-1/2
14	14-1/4	1200	1	18-3/8	14-1/2	8-5/16	E-1	1	1/2 X 2-1/2
16	16-1/4	1200	1	20-1/2	16-1/2	9-1/4	E-2	1-1/4	1/2 X 2-1/2
18	18-1/4	1400	1	23-1/4	18-1/2	10-5/16			1/2 X 3
20	20-1/4	1400	1-1/4	25-1/2	20-1/2	11-3/8	E-2	1-1/4	1/2 X 3



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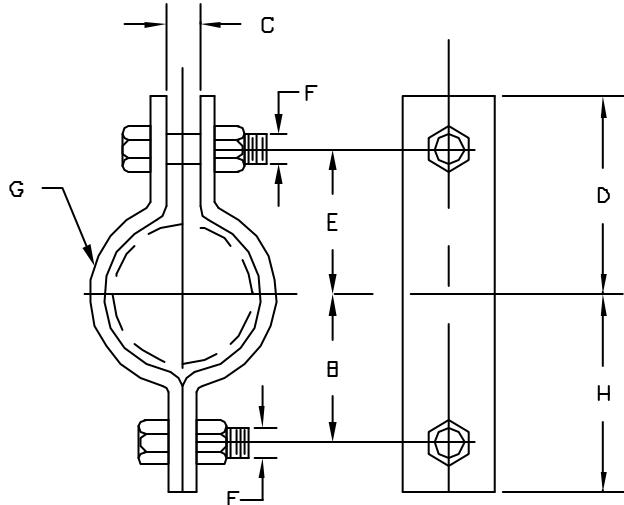


FIG.80

2-BOLT PIPE CLAMP, MEDIUM _____ FIG. 80

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

LOADS-WEIGHTS-DIMENSIONS-INCHES

PIPE SIZE	MAX. RECOM. LOAD, LB. FOR SERVICE TEMPERATURE		APPROX. WGT. LBS. EACH	B	C	D	E	F	G	H
	650°F	750°F								
1/2	500	445	.29	1	1/2	1-17/32	1	5/16	1/8 X 1	1-17/32
3/4	500	445	.33	1-1/8	1/2	1-21/32	1-1/8	5/16	1/8 X 1	1-21/32
1	500	445	.35	1-1/8	1/2	1-29/32	1-3/8	5/16	1/8 X 1	1-21/32
1-1/4	500	445	.38	1-7/16	1/2	1-31/32	1-7/16	5/16	1/8 X 1	1-31/32
1-1/2	800	715	.43	1-9/16	1/2	2-5/32	1-5/8	5/16	1/8 X 1	2-3/16
2	1040	930	1.1	2-1/8	1/2	2-3/4	2-1/8	1/2	3/16 X 1-1/4	2-3/4
2-1/2	1040	930	1.2	2-1/2	5/8	3-1/4	2-5/8	1/2	3/16 X 1-1/4	3-1/8
3	1040	930	1.4	2-13/16	5/8	3-9/16	2-15/16	1/2	3/16 X 1-1/4	3-7/16
3-1/2	1040	930	1.6	3-1/8	5/8	3-13/16	3-3/16	1/2	3/16 X 1-1/4	3-3/4
4	1040	930	2.3	3-7/16	3/4	4-3/8	3-5/8	5/8	1/4 X 1-1/4	4-3/16
5	1040	930	2.6	4	3/4	4-15/16	4-3/16	5/8	1/4 X 1-1/4	4-3/4
6	1615	1440	5.4	4-7/8	7/8	5-7/8	5	3/4	3/8 X 1-1/2	5-3/4
8	1615	1440	6.5	6	1	7	6-1/8	3/4	3/8 X 1-1/2	6-7/8
10	2490	2220	13.8	7-5/16	1	8-9/16	7-7/16	7/8	1/2 X 2	7-7/16
12	2490	2220	15.2	8-1/4	1	8-9/16	8-7/16	7/8	1/2 X 2	8-3/8
14	2490	2220	20.5	9	1-1/8	10-5/8	9-1/4	7/8	1/2 X 2-1/2	10-3/8
16	2490	2220	22.3	10	1-1/8	11-5/8	10-1/4	7/8	1/2 X 2-1/2	11-3/8
18	3060	2730	31.8	11-1/2	1-1/4	13	11-5/8	1	5/8 X 2-1/2	12-7/8
20	3060	2730	35.8	12-1/2	1-3/8	14-1/8	12-3/4	1-1/8	5/8 X 2-1/2	13-7/8
24	3060	2730	53.1	15	1-5/8	18-7/8	15-1/4	1-1/4	5/8 X 3	16-5/8
30	3060	3360	113.9	18-1/2	2	21-1/4	19	1-3/4	3/4 X 4	20-5/8



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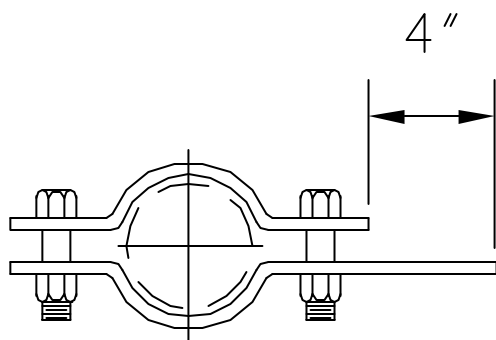


FIG. 80-1

2-BOLT CLAMP WITH ONE LONG EAR,
MEDIUM_____FIG. 80-1

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH
DIMENSIONS:

FIG. 80-1 HAS SAME DIMENSIONS AS
FIG. 80 EXCEPT WITH 4"
EXTENSION ON ONE SIDE FOR
WELDING TO SUPPORT STEEL.

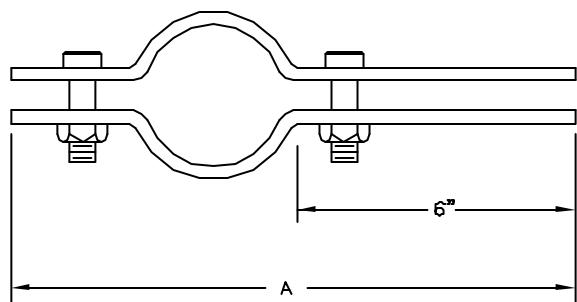


FIG. 83-1

OFFSET RISER CLAMP, MEDIUM_FIG. 83-1

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH

DIMENSIONS:

FIG. 83-1 HAS SAME DIMENSIONS AS
FIG. 83 EXCEPT PIPE LOCATION IS
MOVED OFF-CENTER.

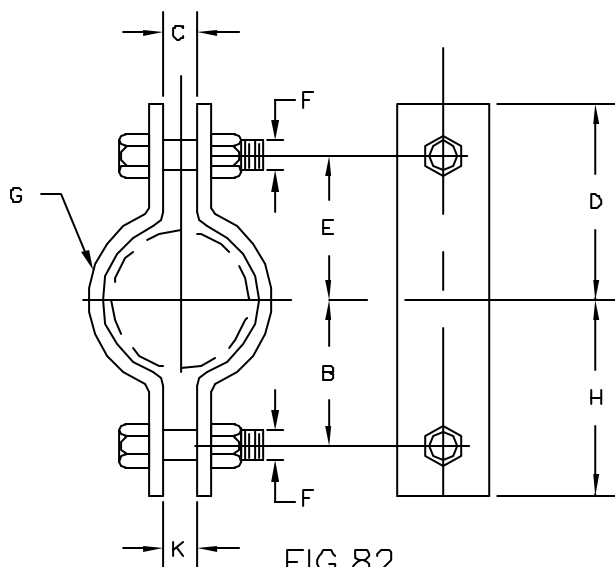


FIG.82

2-BOLT PIPE CLAMP, HEAVY _____ FIG. 82

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH

LOADS-WEIGHTS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD, LB. FOR SERVICE TEMPERATURE		WGT (APPROX) LBS. EACH	B	C	D	E	F	G	H	K
	650°F	750°F									
2 3 4 5	3300 3370 3515 3515	3000 3005 3135 3135	2.1 3.8 5.5 6.3	2 2-15/16 3-9/16 4-1/8	3/4 1 1 1	3 4 4-7/8 5-1/2	2 3-1/8 3-3/4 4-3/8	5/8 3/4 7/8 7/8	1/4 X 1-1/2 1/4 X 2 3/8 X 2 3/8 X 2	3 3-13/16 4-11/16 5-1/4	5/8 5/8 5/8 5/8
6 8 10	4865 4865 6010	4340 4340 5380	11.7 13.9 22.3	5 5-1/8 7-9/16	1-1/8 1-1/8 1-1/4	6-5/8 7-5/8 9-1/16	5-1/4 6-1/4 7-11/16	1 1 1-1/4	1/2 X 2-1/2 1/2 X 2-1/2 5/8 X 2-1/2	6-3/8 7-1/2 8-15/16	7/8 7/8 7/8
12 14 16	8875 8120 8120	7740 8135 8135	38.1 46.8 51.4	8 9-3/4 10-3/4	1-5/8 1-5/8 1-5/8	10-7/8 11-7/8 12-7/8	9-1/4 10 11	1-1/2 1-1/2 1-1/2	3/4 X 3 3/4 X 3-1/2 3/4 X 3-1/2	10-5/8 11-5/8 12-5/8	7/8 7/8 7/8
18 20 24	13800 15300 16300	— — —	130.1 163.6 215.2	14-1/2 15 18-1/4	3 3 3-1/4	17-1/4 18-3/4 21-1/2	14-1/2 18 18-1/2	2 2 2-1/4	3/4 X 6 1 X 5 1 X 6	17-1/4 18-3/4 21-1/2	3 3 3-1/4
28 30 32	18000 20500 23750	— — —	302.8 385.4 431.7	20-1/2 22-1/2 23-1/2	3-1/4 3-1/2 3-1/2	23-1/2 26 27	20-1/2 22-1/2 23-1/2	2-1/4 2-1/2 2-1/2	1 X 8 1-1/4 X 7 1-1/4 X 8	23-1/2 26 27	3-1/4 3-1/2 3-1/2
34 36 42	25000 28000 35000	— — —	533.8 576.1 815.7	25 28-1/2 30	3-1/2 3-1/2 3-1/2	28-1/2 30-1/4 33-3/4	25 28-1/2 30	2-1/2 2-3/4 2-3/4	1-1/2 X 8 1-1/2 X 8 1-3/4 X 10	28-1/2 30-1/4 33-3/4	3-1/2 3-1/2 3-1/2



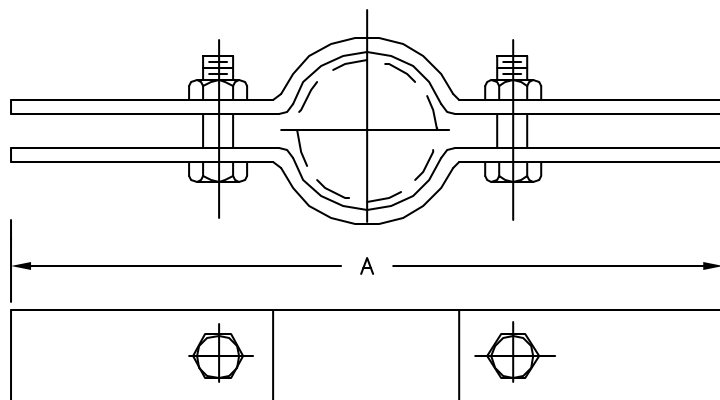
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2-BOLT RISER CLAMP, MEDIUM _____ FIG. 83
 PLASTIC COATED _____ FIG. 83C
 FOR IRON PIPE _____ FIG. 83CI

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
 PIPE SIZE MATERIAL AND FINISH

LOADS—WEIGHTS—DIMENSIONS—INCHES

PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB.	WGT.(APPROX) LBS. EACH	LENGTH A	SIZE STOCK	SIZE BOLTS
1/2	220	1.1	8-7/8	3/16 X 1-1/4	3/8 X 1-1/2
3/4	220	1.1	8-7/8	3/16 X 1-1/4	3/8 X 1-1/2
1	220	1.1	8-7/8	3/16 X 1-1/4	3/8 X 1-1/2
1-1/4	250	1.6	10	1/4 X 1-1/4	3/8 X 1-1/2
1-1/2	250	1.6	10-1/4	1/4 X 1-1/4	3/8 X 1-1/2
2	300	1.7	10-1/4	1/4 X 1-1/4	1/2 X 1-1/2
2-1/2	400	1.9	11-1/4	1/4 X 1-1/4	1/2 X 1-1/2
3	500	1.9	11-3/8	1/4 X 1-1/4	1/2 X 1-1/2
3-1/2	600	2.3	12-7/8	1/4 X 1-1/2	1/2 X 2
4	750	2.4	12-7/8	1/4 X 1-1/2	1/2 X 2
5	1180	3.6	13-3/4	1/4 X 2	1/2 X 2
6	1570	4.0	14-3/4	1/4 X 2	1/2 X 2
8	2500	7.6	18-1/2	3/8 X 2	5/8 X 2-1/2
10	2500	11.1	20-1/4	3/8 X 2	5/8 X 2-1/2
12	2700	16.6	22-3/4	1/2 X 2	5/8 X 2-1/2
14	2700	19.3	24	1/2 X 2	5/8 X 2-1/2
16	2900	32.5	26	5/8 X 2-1/2	3/4 X 3
18	2900	33.8	28	5/8 X 2-1/2	3/4 X 3
20	2900	35.0	30	5/8 X 2-1/2	3/4 X 3



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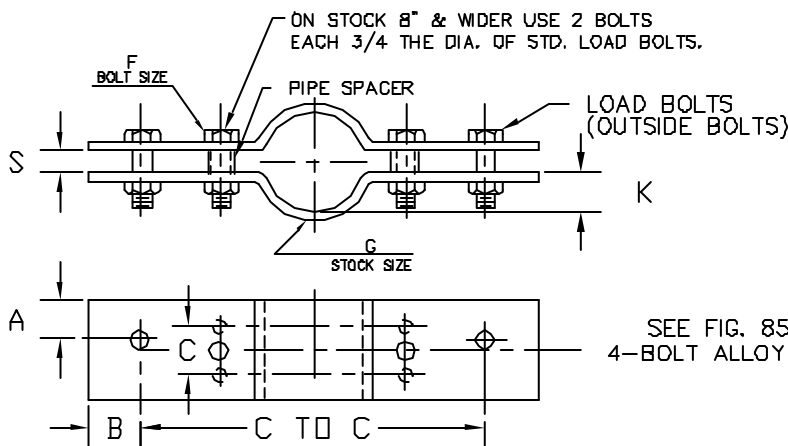


FIG. 84

4-BOLT RISER CLAMP, STANDARD _____ FIG. 84

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIG. NO., PIPE SIZE, MATERIAL & FINISH.

NOTE:

IF MAX. LOADS OR TEMPERATURES ARE EXCEEDED REFER TO FIG. 85

LOAD-DIMENSIONS-WEIGHTS

PIPE SIZE	MAX. LOAD AT 650°F	MAX. LOAD AT 750°F	C-C	S	B	A	CARBON STEEL BOLT F	STAINLESS STEEL BOLT F	G	C	K	REC. HGR. ROD SIZE	REQ'D. QUANTITY SHEAR LUGS FIG. 85
1 1-1/4 1-1/2	650	565	15	3/4	2	1	3/8	3/8	1/4 x 2	-	1-2 5-7/8 3-4	1/2 1/2 5/8	1
2 2-1/2 3	900 900 1500	785 785 1310	18 20 20	3/4	2	1-1/4 1-1/4 1-1/2	3/8 3/8 1/2	1/2 1/2 5/8	1/2x2-1/2 1/2x2-1/2 5/8 x 3	-	13/16 1-1/16 1-3/8	1/2 1/2 5/8	2
4 5	2200	1925	22	3/4	2	1-1/2	1/2	5/8	5/8 x 4	-	1-7/8 2-3/8	3/4	3
6 8	3000	2625	24 27	1	2	1-1/2	5/8	3/4 3/4	3/4 x 4 3/4 x 5	-	2-13/16 3-13/16	7/8	4
10 12 14	5500 7800 7800	4810 6825 6825	30 32 34	1-1/2 1-3/4 1-3/4	2-1/4 2-1/2 2-1/2	1-3/4 2 2	7/8 1 1	1 1 1	1 x 6 1 x 7 1 x 7	-	4-5/8 5-1/2 6-1/8	1-1/4	4 5 5
16 18	9000	7875	36 39	2	2-3/4	2-3/4	1-1/8	1-1/4 1-1/4	1-1/4 x 6 1-1/4 x 7	-	7 8	1-1/2	6
20 24	13500	11800	42 45	2-1/2	2-3/4	2-3/4	1-3/8 1-1/8	1-1/2	1-1/2 x 8	4	8-3/4 10-3/4	1-3/4	6



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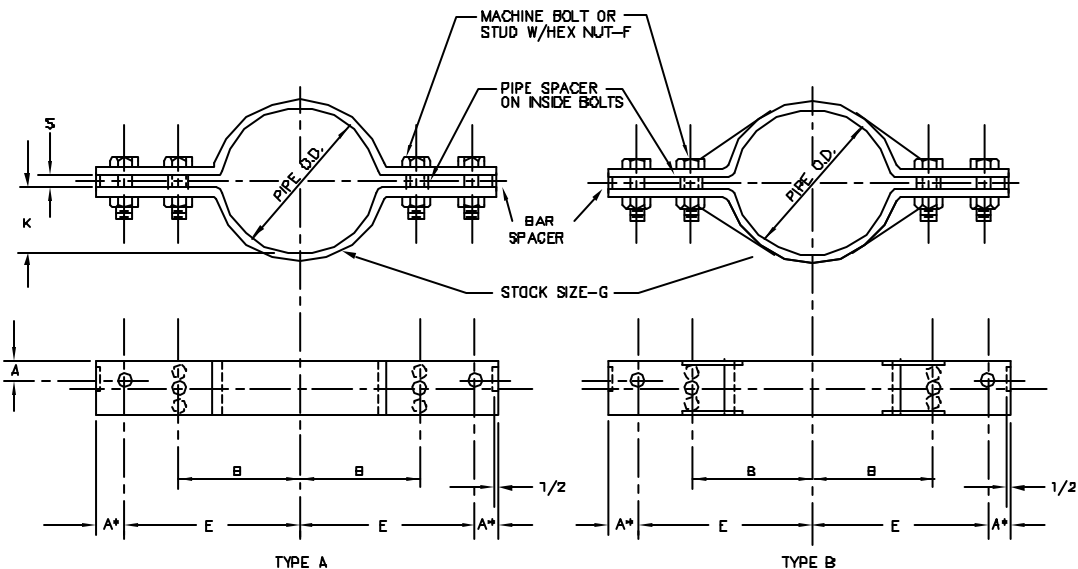


FIG. 85

4-BOLT RISER NON-STANDARD_____ FIG. 85

MATERIAL:

CARBON STEEL, STAINLESS STEEL, OR ALLOY STEEL

ORDERING:

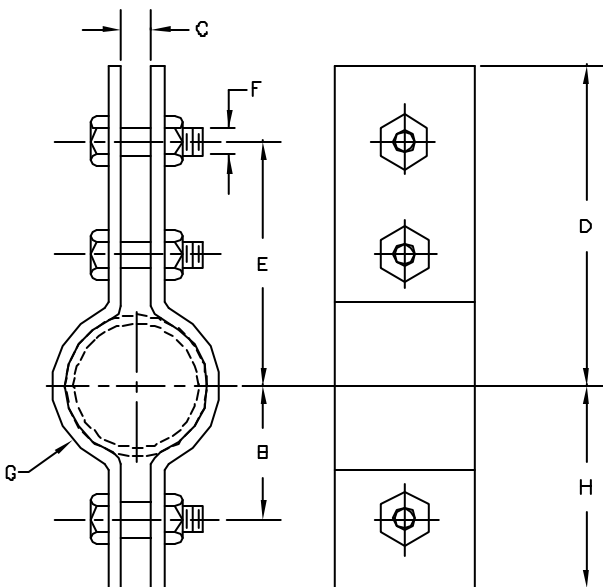
SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
PIPE TEMPERATURE, TOTAL LOAD, HANGER MATERIAL
AND FINISH. ALSO SPECIFY 'E' OR C TO C DIMENSION.

NOTE:

IF DEFINITE "B" DIMENSION IS REQUIRED
IT MUST BE SPECIFIED

TYPE B IS GENERALLY REQUIRED FOR PIPE SIZES
ABOVE 12" WITH LOADS ABOVE ABOUT 8000 POUNDS
ALLOY STEEL IS REQUIRED ABOVE 750 DEGREES F.

SEE FIG. 84 FOR STANDARD
4-BOLT RISER CLAMP



3-BOLT PIPE CLAMP _____ FIG. 86

MATERIAL:
CARBON STEEL OR
STAINLESS STEEL

ORDERING:
SPECIFY NAME,
FIGURE NUMBER,
PIPE SIZE,
MATERIAL AND
FINISH

FIG.86

LOADS-WEIGHTS-DIMENSIONS (INCHES)

PIPE SIZE	MAX. RECOM. LOAD LB. FOR SERVICE TEMP.		WGT (APPROX.) LBS. EACH	B	C	D	E	F	G	H
	850F	750F								
3/4	960	860	.70	15/16	5/8	2-7/8	2-7/16	3/8	3/16 X 1-1/4	1-3/8
1	960	860	.76	1-3/8	5/8	3-1/2	3-1/8	3/8	3/16 X 1-1/4	1-3/4
1-1/4	960	860	.81	1-1/4	5/8	3-1/8	2-11/16	3/8	3/16 X 1-1/4	1-11/16
1-1/2	1545	1380	2.3	1-13/16	1-1/16	4-7/8	4-1/8	5/8	1/4 X 1-1/4	2-3/8
2	1545	1380	2.6	2-1/16	1-1/16	5-7/8	5-1/8	5/8	1/4 X 1-1/4	2-11/16
2-1/2	1545	1380	2.7	2-5/16	1-1/16	6-1/8	6-3/8	5/8	1/4 X 1-1/4	2-15/16
3	1545	1380	3.0	2-3/4	1-1/16	6-11/16	5-15/16	5/8	1/4 X 1-1/4	3-1/2
4	2500	2230	6.7	3-3/8	1-1/16	7-5/8	6-1/2	3/4	3/8 X 2	4-1/2
5	2600	2230	7.0	3-15/16	1-1/16	8-1/8	7	3/4	3/8 X 2	5
6	2865	2555	11.5	4-3/4	1-7/16	9-15/16	8-9/16	7/8	3/8 X 2-1/2	6-1/8
8	2865	2555	13.2	5-3/4	1-7/16	10-15/16	9-9/16	7/8	3/8 X 2-1/2	7-1/8
10	3240	2890	18.8	6-7/8	1-7/16	12	10-7/16	1	1/2 X 2-1/2	8-1/4
12	3240	2890	22.3	7-7/8	1-7/16	13	11-7/16	1	1/2 X 2-1/2	9-1/4
14	4300	3835	37.7	8-1/8	2	14-5/16	12-11/16	1-1/4	5/8 X 3	10-11/16
16	4300	3835	41.4	10-1/16	2	15-5/16	13-11/16	1-1/4	5/8 X 3	11-11/16
18	4300	3835	44.9	11-1/16	2	16-5/16	14-11/16	1-1/4	5/8 X 3	12-11/16
20	5490	4900	57.3	12-3/8	2	17-1/2	15-7/8	1-3/8	3/4 X 3	14
24	4500	4015	65.9	14-3/8	2	19-1/2	17-7/8	1-3/8	3/4 X 3	16
28	6000	-	112.3	17-1/2	2-1/4	24-1/4	21-3/4	1-1/4	3/4 X 4	20
30	7600	-	180.0	18-1/2	2-1/2	26-1/8	23-3/8	1-3/8	3/4 X 5	21-1/4
32	8250	-	193.3	19-5/8	2-1/2	28	25	1-1/2	3/4 X 6	22-5/8
34	9800	-	248.8	21-1/2	3	31-1/4	27-3/4	1-3/4	1 X 5	25
36	10500	-	257.5	22-1/2	3	32-1/4	28-3/4	1-3/4	1 X 5	26



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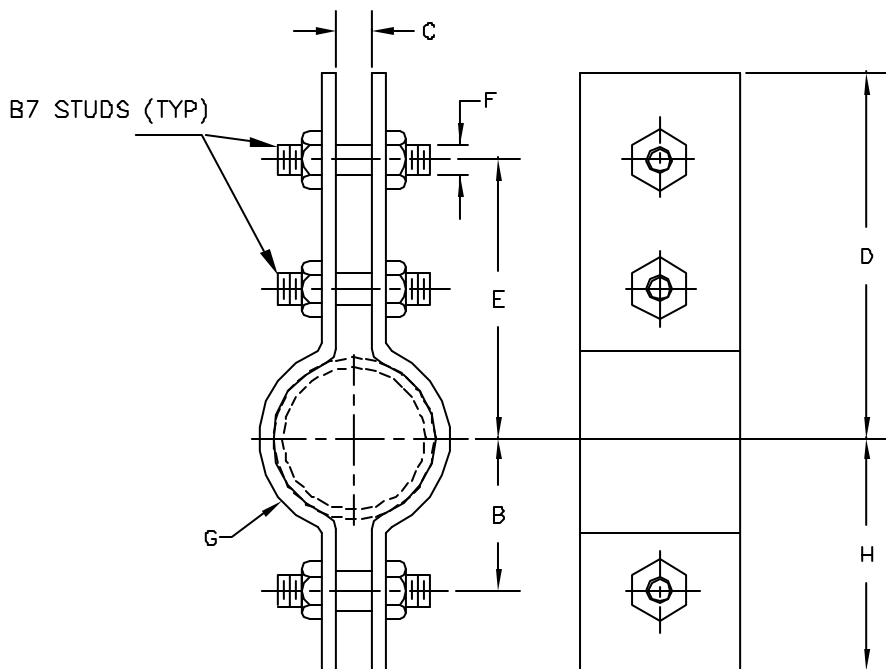


FIG.86A

ALLOY 3-BOLT CLAMP _____ FIG. 86A

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH

LOADS-WEIGHTS-DIMENSIONS-INCHES

PIPE SIZE	MAX. RECOM. LOAD LB. FOR SERVICE TEMP.				WGT (APPROX.) LBS. EACH	B	C	D	E	F	G	H
	650°F	750°F	1000°F	1080°F								
1-1/2	1545	1410	1000	745	2.3	1-13/16	1-1/16	4-7/8	4-1/8	5/8	1/4 X 1-1/4	2-3/8
2	1545	1410	1000	745	2.8	2-1/8	1-1/16	5-7/8	5-1/8	5/8	1/4 X 1-1/4	2-11/16
2-1/2	1545	1410	1000	745	2.7	2-5/16	1-1/16	5-1/8	5-3/8	5/8	1/4 X 1-1/4	2-15/16
3	1545	1410	1000	745	3.0	2-3/4	1-1/16	6-11/16	5-15/16	5/8	1/4 X 1-1/4	3-1/2
4	2500	2280	1825	1200	6.7	3-3/8	1-1/16	7-5/8	6-1/2	3/4	3/8 X 2	4-1/2
5	2500	2290	1825	1200	7.0	3-15/16	1-1/16	8-1/8	7	3/4	3/8 X 2	5
6	2865	2620	1880	1380	11.5	4-3/4	1-7/16	9-15/16	8-9/16	7/8	3/8 X 2-1/2	6-1/8
8	2865	2620	1880	1380	13.2	5-3/4	1-7/16	10-15/16	9-9/16	7/8	3/8 X 2-1/2	7-1/8
10	3240	2970	2100	1565	19.8	7-1/16	1-7/16	12	10-8/16	1	1/2 X 2-1/2	8-1/4
12	3240	2970	2095	1565	22.3	8-1/16	1-7/16	12-15/16	11-5/8	1	1/2 X 2-1/2	8-5/16
14	4300	3815	2795	2080	37.7	9-1/16	2	14-5/16	12-11/16	1-1/4	5/8 X 3	10-11/16
16	4300	3815	2795	2080	41.4	10-1/16	2	15-5/16	13-11/16	1-1/4	5/8 X 3	11-11/16
18	4300	3915	2780	2080	44.9	11-1/16	2	16-5/16	14-11/16	1-1/4	5/8 X 3	12-11/16
20	5490	4985	3550	2635	57.3	12-3/8	2	17-1/2	15-7/8	1-3/8	3/4 X 3	14
24	4500	4085	2910	2160	65.9	14-3/8	2	19-1/2	17-7/8	1-3/8	3/4 X 3	16



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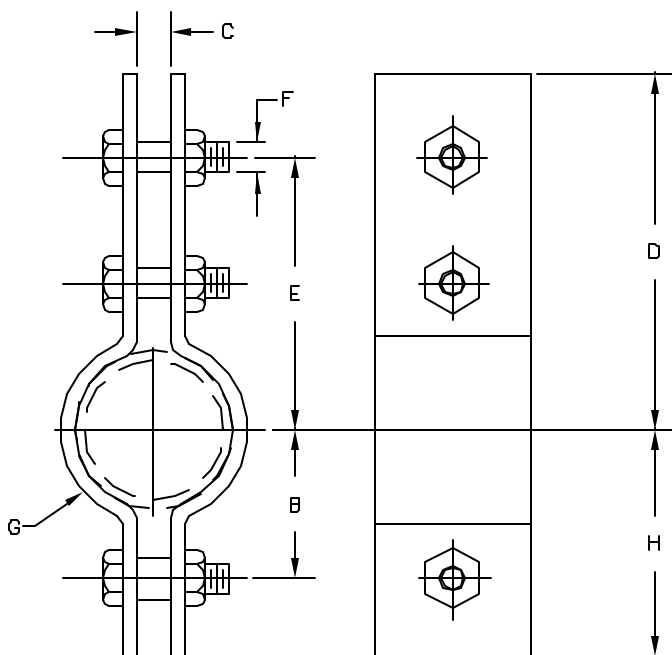


FIG.86H

3-BOLT CLAMP, HEAVY_____FIG. 86H

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH.

LOADS—DIMENSIONS—INCHES

PIPE SIZE	MAX. RECOM. LOAD LB. FOR SERVICE TEMP.		B	C	D	E	F	G	H
	850°F	750°F							
6 8 10	3500 4800 5500	3125 4285 4910	4-3/4 6 7-1/4	1-3/4 2 2-1/4	10-3/16 11-3/8 13-1/8	8-15/16 10-1/8 11-3/8	1 1-1/8 1-1/4	3/8 X 2-1/2 1/2 X 2-1/2 1/2 X 3-1/2	6 7-1/4 9
12 14 16	7000 9500 10000	6250 8485 8930	8-5/8 9-5/8 10-7/8	2-1/2 2-1/2 3	14-5/16 15-1/2 17-1/8	12-9/16 13-1/2 14-7/8	1-3/8 1-1/2 1-3/4	5/8 X 3-1/2 3/4 X 4 3/4 X 4-1/2	10-3/8 11-5/8 13-1/8
18 20 24	13800 15300 16300	12325 13685 14555	12-1/2 13-1/2 15-1/2	3-1/2 3-1/2 3-1/2	18-1/4 19-3/4 22-5/16	16-1/4 17-1/4 19-5/16	2 2 2	1 X 4 1 X 5 1 X 6	14-1/2 16 18-1/2
28 30 32	18000 20500 23750	— — —	18-7/8 19-7/8 21-3/4	4 4-1/4 4-1/4	31-3/4 32-3/4 36	27-1/4 28-1/4 31	2-1/4 2-1/4 2-1/2	1 X 7 1 X 8 1-1/4 X 8	23-3/8 24-3/8 26-3/4
34 36	25000 28000	— —	23-3/8 24-5/8	4-1/4 4-1/2	37-1/2 40-1/4	32-1/2 34-3/4	2-1/2 2-3/4	1-1/2 X 7 1-1/2 X 8	28-3/8 30-1/8

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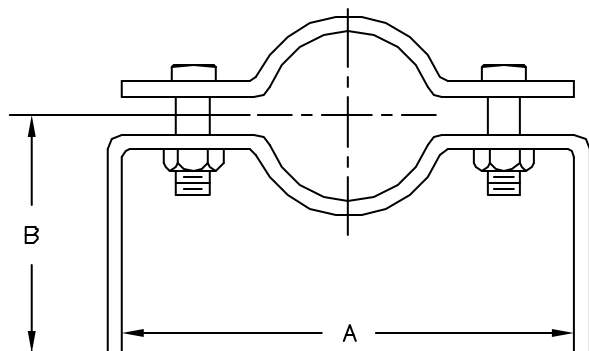


FIG.88

MARINE EXTENDED PIPE CLAMP_____FIG. 88

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH.

DIMENSIONS IN INCHES

PIPE SIZE	B*	A	STEEL SIZE	BOLT SIZE	APPROX. WEIGHT PER 100
3/8	12	3-3/4	1/8 X 1	3/8	185
1/2	12	3-3/4	3/16 X 1	3/8	185
3/4	12	5-7/8	3/16 X 1-1/4	3/8	185
1	12	6-3/8	3/16 X 1-1/4	3/8	234
1-1/4	12	6-7/8	3/16 X 1-1/4	3/8	240
1-1/2	12	7-1/8	3/16 X 1-1/4	3/8	245
2	12	8-3/8	1/4 X 1-1/4	1/2	313
2-1/2	12	8-7/8	1/4 X 1-1/4	1/2	421
3	12	10	1/4 X 1-1/4	1/2	447
4	12	10-5/8	1/4 X 1-1/2	1/2	490
5	12	12-3/8	1/4 X 2	5/8	532
6	12	13-1/2	1/4 X 2	5/8	1116
8	12	15-1/2	1/4 X 2	5/8	1266
10	12	18-1/4	1/4 X 2-1/2	3/4	1350
12	12	20-3/4	3/8 X 2-1/2	3/4	2200
14	12	21	3/8 X 3	3/4	3500

* OTHER LENGTHS MADE TO CUSTOMER ORDER



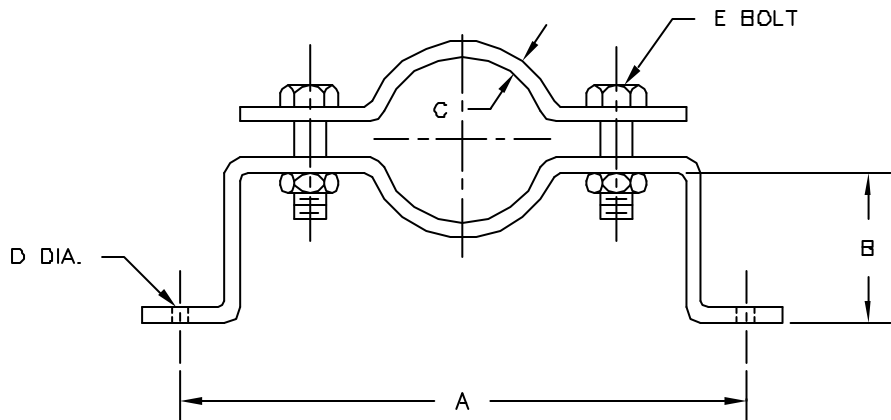


FIG. 88A

OFFSET PIPE CLAMP _____ FIG. 88A

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,

PIPE SIZE, MATERIAL AND FINISH

NOTE: OFFSET CLAMPS ARE CUSTOM MADE TO
OTHER DIMENSIONS AND CONFIGURATIONS.
ONE VARIATION IS FOR MULTIPLE PIPES.

LOADS—WEIGHTS—DIMENSIONS—INCHES

PIPE SIZE	MAX. RECOM. LOAD, LB.	WEIGHT (APPROX) EA.,LB.	A	B	E BOLT	C STEEL	D HOLE
1/2	190	1.10	8-1/2	2-7/16	3/8 X 1	3/16 X 1	7/16
3/4	190	1.35	8-3/4	2-3/4		3/16 X 1-1/4	
1	190	1.45	9-1/4	2-7/8			
1-1/4	190	1.55	9-3/4	3-1/16			
1-1/2	190	1.62	10	3-3/16			
2	420	2.79	11-1/4	3-1/2	1/2 X 1-1/2	1/4 X 1-1/4	9/16
2-1/2	420	2.90	11-3/4	3-3/4		1/4 X 1-1/2	
3	420	3.22	12-7/8	4-1/16			
4	610	4.22	13-7/8	4-9/16			
5	610	6.50	15-5/8	5-1/16	5/8 X 2	1/4 X 2	11/16
6	670	7.15	16-3/4	5-5/8			
8	670	8.32	18-3/4	6-5/8			
10	1050	12.38	21-1/2	7-3/8	3/4 X 2	1/4 X 2-1/2	13/16
12	1200	21.00	24-7/8	8-3/8		3/8 X 2-1/2	


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SIDE LOADING HANGER _____ FIG. 90

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

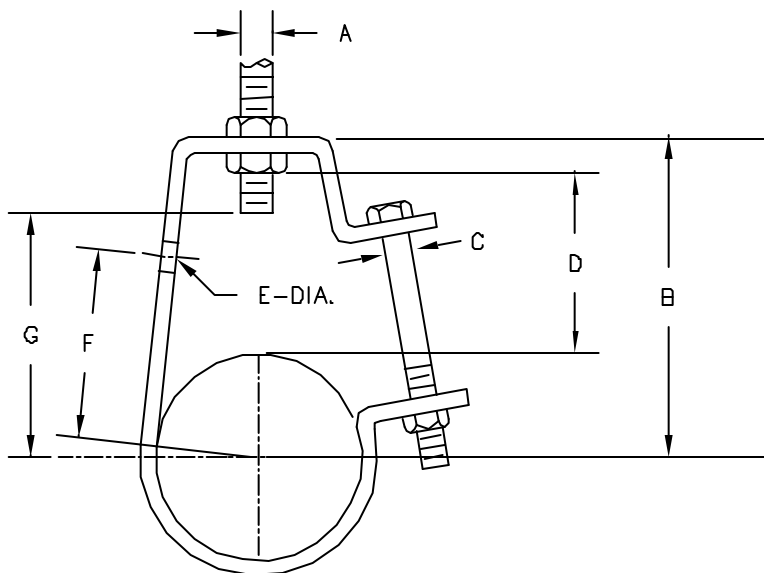
SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

FIG. 90

DIMENSIONS-LOADS-WEIGHTS

PIPE SIZE	A	B	C	D	E	F	G	STOCK SIZE	MAX. LOAD RATING	APPROX. WT/100
1/2	3/8	2-5/8	1/4	1-3/4	7/16	1-1/2	1-15/16	.120 X 1	400	21
3/4	3/8	2-7/8	1/4	1-7/8	7/16	1-11/16	2-1/8	.120 X 1	400	22
1	3/8	2-15/16	1/4	1-15/16	7/16	1-13/16	2-5/16	.120 X 1	400	25
1-1/4	3/8	3-1/4	1/4	2	7/16	2-1/16	2-5/8	.120 X 1	400	27
1-1/2	3/8	3-9/16	1/4	2-3/16	7/16	2-7/16	2-7/8	.120 X 1	400	29
2	3/8	3-11/16	1/4	2-1/8	7/16	2-9/16	3-1/16	.120 X 1	400	31
2-1/2	1/2	4-7/16	3/8	2-7/16	9/16	3-3/16	3-5/8	1/8 X 1-1/4	500	71
3	1/2	4-13/16	3/8	2-9/16	9/16	3-1/2	4-1/16	1/8 X 1-1/4	500	78
3-1/2	1/2	5-1/8	3/8	2-5/8	9/16	3-3/4	4-3/8	1/8 X 1-1/4	500	84
4	5/8	6-1/8	3/8	3-3/16	9/16	4-5/8	5-3/16	3/16 X 1-1/4	550	139
5	5/8	6-3/4	3/8	3-1/4	9/16	5-1/16	5-3/4	3/16 X 1-1/4	550	166
6	3/4	7-3/4	3/8	3-9/16	9/16	5-13/16	6-5/8	1/4 X 1-1/4	600	226
8	7/8	9-3/16	3/8	3-15/16	9/16	6-15/16	8	1/4 X 1-1/2	760	332



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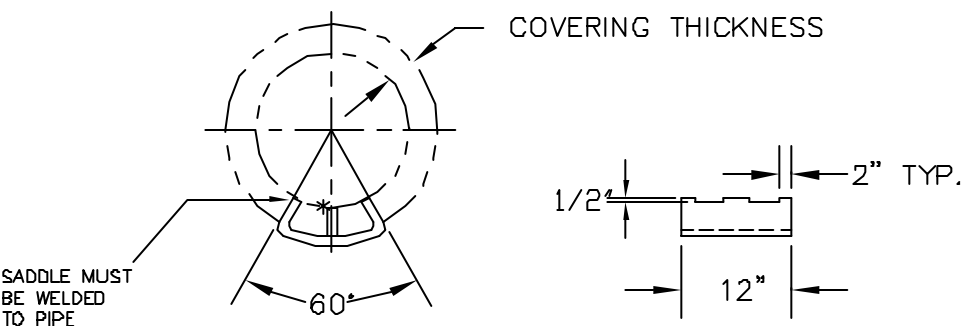


FIG.99

PIPE COVERING PROTECTION SADDLES_____FIG. 99

MATERIAL:

CARBON STEEL, STAINLESS STEEL OR ALLOY

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
INSULATION THICKNESS, SADDLE MATERIAL
AND FINISH

- * CENTER SUPPORT FIN IS REQUIRED IN CARBON AND STAINLESS SADDLES FOR 12 INCH AND LARGER PIPE. CENTER SUPPORT FIN IS REQUIRED IN ALLOY SADDLES FOR 4 INCH AND LARGER PIPE.

CARBON OR STAINLESS STEEL — MAX TEMP 650 F			
PIPE SIZE	COVERING MAXIMUM THICKNESS	REC. MAX. LOAD LBS.	SADDLE THICKNESS
3/4 THRU 5	4	1200	1/8
6 — 14	4	5000	3/16
16-36 42 48	4	7200	1/4 3/8 1/2

ALLOY STEEL — MAX. TEMP. 1050 DEG. F.			
PIPE SIZE	COVERING MAXIMUM THICKNESS	REC. MAX. LOAD LBS.	SADDLE THICKNESS
2 — 3	5-1/2	1200	1/4
4 — 10		7200	3/8
12 — 16		11400	3/8
18 — 24		13370	3/8
30 — 36		13370	1/2



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180 DEGREE
SHIELD SIZE SELECTION CHART—LENGTHS & GAGES ARE PER MSS—SP—58

FIG. 100

PIPE SIZE	INSULATION THICKNESS—INCHES									
	1/2	3/4	1	1-1/2	2	2-1/2	3	3-1/2	4	
1/2	1A	1A								18 GAGE 12" LONG
3/4	1A	1A	2A	4A	6A					
1	1A	2A	3A	5A	7A					
1-1/4	2A	3A	3A	6A	7A					
1-1/2	2A	3A	4A	6A	7A					
2	3A	4A	5A	7A	8A					16 GAGE 12" LONG
2-1/2	4A	5A	6A	7A	8A					16 GAGE 16" LONG
3	5A	6A	7A	8A	9A					14 GAGE 24" LONG
3-1/2			8A	9A	10A	10A	11B	12B	13C	
4			8A	9A	10A	11B	12B	13C	14C	
5			9B	10B	11B	12B	13C	14C	15C	
6			10B	11B	12B	13C	14C	15C	16C	
8				13C	14C	14C	15C	16C	17C	12 GAGE 24" LONG
10			14C	15C	16C	17C	17C	19C	20C	
12			16C	17C	18C	19C	19C	21C	22C	
14			17C	18C	19C	20C	21C	22C	23C	
16			19C	20C	21C	22C	23C	24C	25C	
18			21C	22C	23C	24C	25C	26C	27C	12 GAGE 24" LONG
20			23C	24C	25C	26C	27C	28C	29C	
22			25C	26C	27C	28C	29C	30C	31C	
24			26C	27C	28C	29C	30C	31C	32C	
26										

180 DEGREE
INSULATION SHIELD—WEIGHTS DIMENSIONS

SHIELD	APPROX. WEIGHT (LBS.)	STOCK GAGE	SHIELD LENGTH (INCH)	RADIUS R(IN.)
X1A	.52	18	12	.95
1A	.64	18	12	1.19
2A	.79	18	12	1.44
3A	.98	18	12	1.75
4A	1.1	18	12	2.00
5A	1.2	18	12	2.25
6A	1.4	18	12	2.50
7A	1.6	18	12	2.78
8A	2.3	16	12	3.32
9A	2.6	16	12	3.82
10A	3.2	16	12	4.32
9B	3.8	16	18	3.82
10B	4.8	16	18	4.32
11B	4.8	16	18	4.82
12B	5.5	16	18	5.38
13C	10.5	14	24	5.88
14C	10.5	14	24	6.38
15C	12.6	14	24	7.00
16C	12.6	14	24	7.50
17C	15.8	14	24	8.00
18C	15.8	14	24	8.50
19C	22.2	12	24	9.00
20C	22.2	12	24	9.50
21C	29.6	12	24	10.00
22C	29.6	12	24	10.50
23C	29.6	12	24	11.00
24C	29.6	12	24	11.50
25C	29.6	12	24	12.00
26C	44.3	12	24	13.00
27C	44.3	12	24	13.50
28C	44.3	12	24	14.00
29D	44.3	12	24	14.50
30D	44.3	12	24	15.00
31D	44.3	12	24	15.50
32D	44.3	12	24	16.00

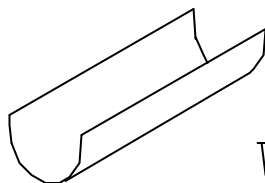
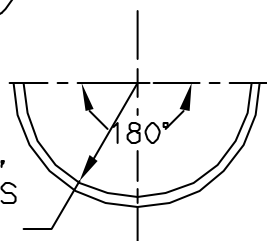


FIG. 100, 101, 102,
103, 104, 105, 100S



SERIES 100 INSULATION PROTECTION SHIELDS

- 180 DEGREE SHIELD _____ FIG. 100
 180 DEGREE RUBBER LINED SHIELD _____ FIG. 101
 360 DEGREE SHIELD WITH CLAMPS _____ FIG. 102
 360 DEGREE RUBBER LINED W/CLAMPS _____ FIG. 103
 180 DEGREE SHIELD WITH CLAMPS _____ FIG. 104
 180 DEGREE RUBBER LINED W/CLAMPS _____ FIG. 105
 SHIELDS MADE TO CUSTOMER ORDER _____ FIG. 100S

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, INSULATION
 OUTSIDE DIAMETER OR SHIELD RADIUS, LENGTH,
 DEGREES WRAP, MATERIAL TYPE, GAGE AND
 FINISH.



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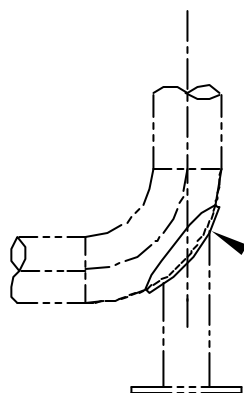


FIG. 106TB
TURTLEBACK

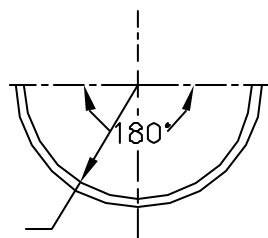
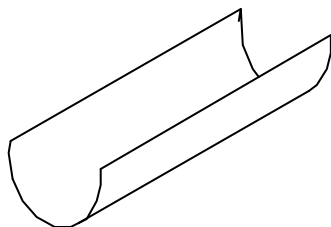


FIG. 106, 106A, 106B, 106C

PIPE WEAR PLATE (POISON PAD)

90 DEGREE_____	FIG. 106
120 DEGREE_____	FIG. 106A
150 DEGREE_____	FIG. 106B
180 DEGREE_____	FIG. 106C
TURTLEBACK ELBOW PADS_____	FIG. 106TB

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE O.D., PLATE LENGTH,
THICKNESS, WRAP DEGREE,
MATERIAL AND FINISH

NOTE:

SEE FIG. 51WBS WELDED
BASE STAND



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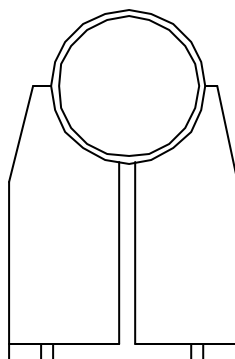
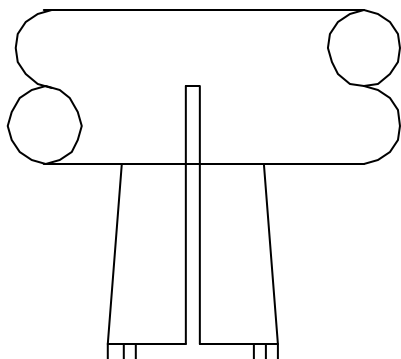


FIG. 110P

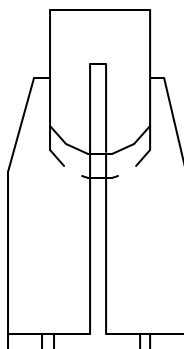
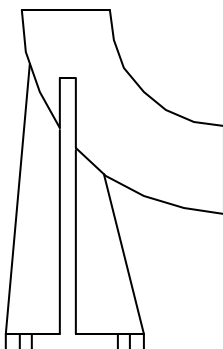


FIG. 110E

ANCHOR SUPPORT, WELDED:
PIPE _____ FIG. 110P

ELBOW _____ FIG. 110E

MATERIAL:

CARBON STEEL OR ALLOY

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
PIPE TEMPERATURE, PLATE THICKNESS,
DISTANCE FROM PIPE CENTER LINE TO
BASE, BASE LENGTH AND WIDTH,
MATERIAL AND FINISH



SHOE SUPPORT-SINGLE TEE W/CRADLE _____ FIG. 111A
 -DOUBLE TEE W/CRADLE _____ FIG. 111B
 -CUSTOM _____ FIG. 111C

MATERIAL:

CARBON STEEL OR STAINLESS STEEL, OR COMBINATION CARBON
 TEE W/STAINLESS CRADLE FOR WELDING TO STAINLESS PIPE.

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE, CUSTOM DIMENSIONS,
 MATERIAL AND FINISH. ALSO LIST OPTIONS REQUIRED.

FIG. 111A

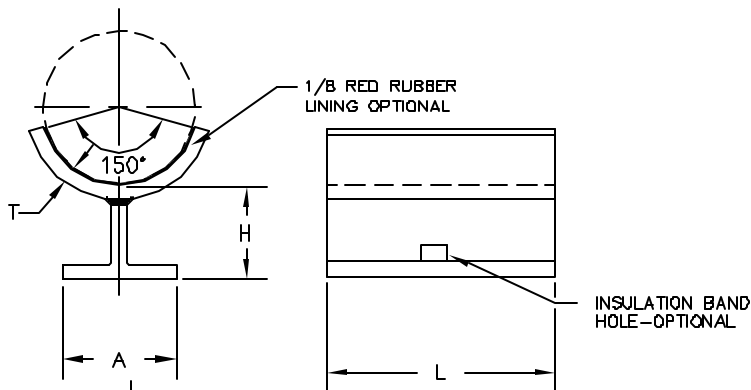
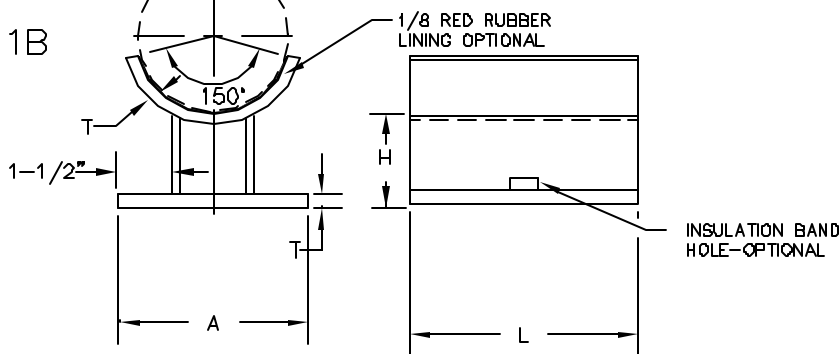


FIG. 111B



STANDARD DIMENSIONS (INCHES)

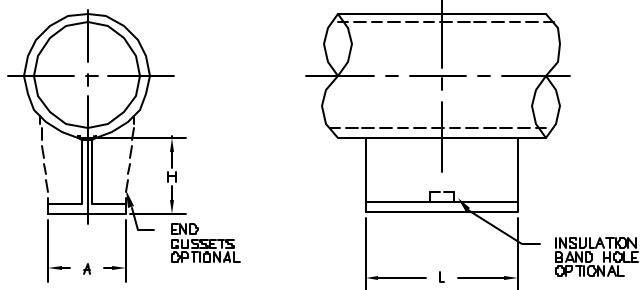
PIPE SIZE	A	H	L	T	BASE	FIGURE NO.
2-6	4	4	8	1/4	SPLIT W 8X13	111A
8-12	6-1/2	4	8	1/4	SPLIT W 8X24	111A
14-18	9	4	12	3/8	3/8 PLATE	111B
20-24	12	4	12	3/8	3/8 PLATE	111B



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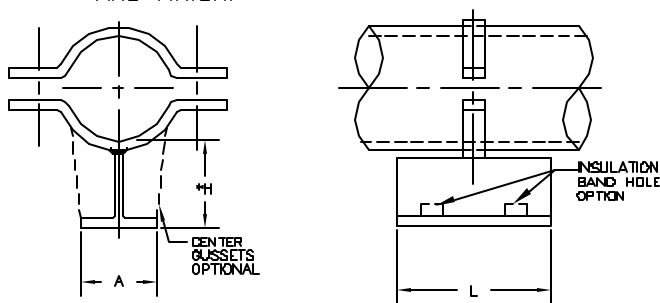
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SHOE SUPPORT-SINGLE STEM TEE
(WELDS TO PIPE)_____FIG. 112

MATERIAL:
CARBON STEEL OR STAINLESS STEEL
ORDERING:
SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, LENGTH, HEIGHT, WIDTH,
WITH OR WITHOUT END GUSSETS AND
INSULATION BAND HOLE, MATERIAL
AND FINISH.



1/4" TD BOTTOM OF PIPE

FIG. 113

DIMENSIONS(INCHES)

PIPE SIZE	A	H	L	BASE
2	4	4	8	SPLIT W 8X13
3	4	4	8	SPLIT W 8X13
4	4	4	8	SPLIT W 8X13
6	4	4	8	SPLIT W 8X13

SHOE SUPPORT-SINGLE STEM TEE
WITH 1 CLAMP_____FIG. 113

MATERIAL:
CARBON STEEL OR STAINLESS STEEL
ORDERING:
SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, SHOE LENGTH "L",
HEIGHT "H", WITH OR WITHOUT
GUSSETS AND INSULATION
BAND HOLE, MATERIAL AND FINISH.



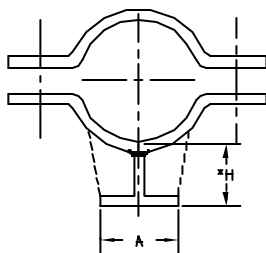
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DIMENSIONS (INCHES)

PIPE SIZE	A	H	L	BASE
3	4	4	12	SPLIT W 8X13
4	4	4	12	SPLIT W 8X13
6	4	4	12	SPLIT W 8X13
8	4	4	12	SPLIT W 8X13



*H=TO BOTTOM OF PIPE

FIG. 114A

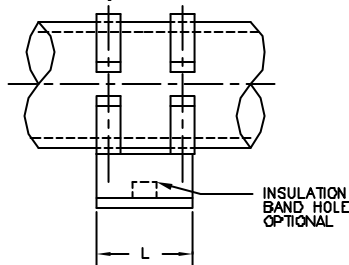
SHOE SUPPORT-SINGLE STEM TEE WITH
2 CLAMPS_____FIG. 114A

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

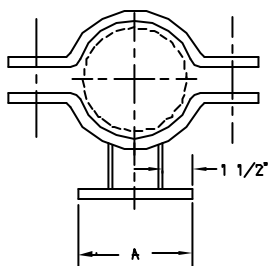
ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, SHOE LENGTH "L"
HEIGHT "H", WITH OR WITHOUT
GUSSETS AND INSULATION BAND
HOLE, MATERIAL AND FINISH.



DIMENSIONS (INCHES)

PIPE SIZE	A	H	L	T
10	9	4	12	3/8 PLATE
12	9	4	12	3/8 PLATE
14	9	4	12	3/8 PLATE
16	9	4	12	3/8 PLATE
18	9	4	12	3/8 PLATE
20	12	4	12	3/8 PLATE
24	12	4	12	3/8 PLATE



*H=TO BOTTOM OF PIPE

FIG. 114B

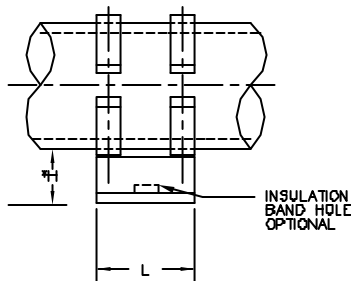
SHOE SUPPORT-DBL STEM TEE WITH
2 CLAMPS_____FIG. 114B

MATERIAL:

CARBON STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, SHOE LENGTH "L"
HEIGHT "H", WITH OR WITHOUT
GUSSETS AND INSULATION BAND
HOLE, MATERIAL AND FINISH.



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PIPE SIZE	A	B	C	HOLE SIZE	STOCK SIZE	LOAD RATING LBS.	APPROX. WEIGHT PER 100
1/2	4-1/8	7/16	2-7/8	7/16	1/8 X 1-1/4	410	21
3/4	4-5/16	9/16	3-1/16	7/16	1/8 X 1-1/4	410	24
1	4-9/16	11/16	3-5/16	7/16	1/8 X 1-1/4	410	26
1-1/4	4-15/16	13/16	3-11/16	7/16	1/8 X 1-1/4	410	30
1-1/2	5-3/16	15/16	3-15/16	7/16	1/8 X 1-1/4	410	33
2	5-3/4	1-3/16	4-1/2	7/16	1/8 X 1-1/4	410	38
2-1/2	6-1/4	1-7/16	5	7/16	1/4 X 1-1/4	610	85
3	6-7/8	1-3/4	5-5/8	7/16	1/4 X 1-1/4	610	100
3-1/2	7-3/8	2	6-1/8	7/16	1/4 X 1-1/4	610	111
4	8-3/8	2-1/4	7-1/8	9/16	1/4 X 1-1/2	725	151
5	9-7/16	2-3/4	8-3/16	9/16	1/4 X 1-1/2	725	179
6	10-1/2	3-5/16	9-1/4	9/16	1/4 X 1-1/2	725	207
8	14	4-5/16	12	11/16	3/8 X 1-1/2	900	415

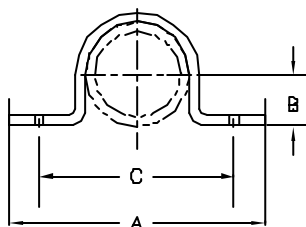


FIG. 115

HOLD DOWN CLAMP W/2 BOLT HOLES—
MEDIUM_____FIG. 115

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH

DIMENSIONS (INCHES)

PIPE SIZE	RECOM. MAX. SAFE LOAD LB.	A	B	C	D	E	F	BOLT HOLES
1/2	300	3-15/16	1-1/4	2-11/16	1/2	1-1/8	1/8	2
3/4	300	4-1/4	1-1/4	3	11/16	1-7/16	1/8	
1	300	4-1/2	1-1/4	3-1/4	3/4	1-5/8	1/8	
1-1/4	300	4-15/16	1-1/4	3-11/16	1-1/16	2-1/8	1/8	
1-1/2	300	5-7/16	1-1/4	4-3/16	1-1/4	2-7/16	1/8	2
2	300	6	1-1/4	4-3/4	1-3/8	2-13/16	1/8	
2-1/2	500	6-1/2	1-1/2	5-1/4	1-3/4	3-9/16	1/4	4
3	500	7-1/8	1-1/2	5-7/8	1-7/8	4	1/4	
4	500	8-1/4	1-1/2	7	2-7/16	5-1/16	1/4	

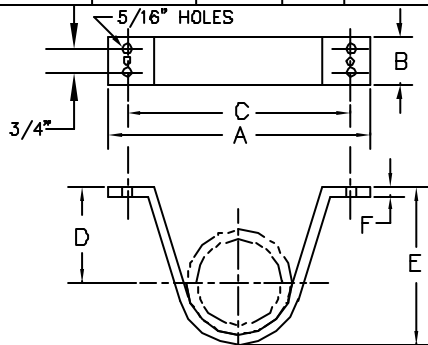


FIG. 118

SPRINKLER SHORT CLIP_____FIG. 118

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, MATERIAL AND FINISH

INSTALLATION:

USE 2" NO. 18 WOOD SCREWS
(STEEL), OR 1/4" STEEL BOLTS
IN EACH HOLE.



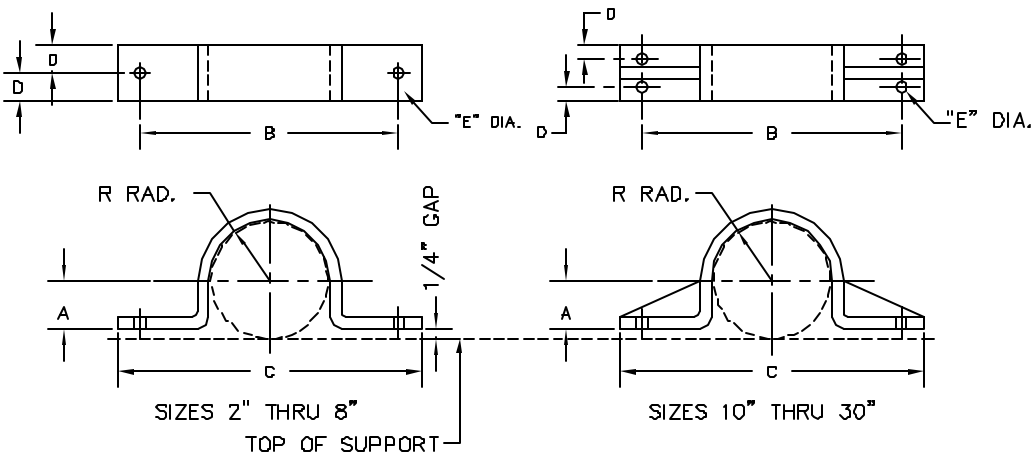


FIG. 116

HOLD DOWN ANCHOR CLAMP, HEAVY_____FIG. 116

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,

MATERIAL AND FINISH

NOTE: FIG. 116BP, BASE PLATE MUST BE

ORDERED SEPARATELY IF REQUIRED

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	D	HOLE E	RADIUS R	STOCK SIZE
2	15-16	5-3/8	7-5/8	1-1/2	7/8	1-3/16	3/8 X 3
2-1/2	1-3/16	5-7/8	8-1/8	1-1/2	7/8	1-7/16	3/8 X 3
3	1-1/2	6-1/2	8-3/4	1-1/2	7/8	1-3/4	3/8 X 3
3-1/2	1-3/4	7	9-1/4	1-1/2	7/8	2	3/8 X 3
4	2	7-1/2	9-3/4	1-1/2	7/8	2-1/4	3/8 X 3
5	2-9/16	8-9/16	10-13/16	1-1/2	7/8	2-13/16	3/8 X 3
6	3-1/16	10-5/8	13-5/8	3	1	3-5/16	1/2 X 6
8	4-1/16	12-5/8	15-5/8	3	1	4-5/16	1/2 X 6
10	5-1/8	15-1/4	18-3/4	1-1/2	1-1/8	5-3/8	1/2 X 8
12	6-1/8	17-1/4	20-3/4	1-1/2	1-1/8	6-3/8	1/2 X 8
14	6-3/4	18-1/2	22	2	1-1/8	7	1/2 X 10
16	7-3/4	20-1/2	24	2	1-1/8	8	1/2 X 10
18	8-3/4	22-1/2	26	2-1/2	1-1/8	9	1/2 X 12
20	9-3/4	24-1/2	28	2-1/2	1-1/8	10	1/2 X 12
24	11-3/4	28-1/2	32	2-1/2	1-1/8	12	1/2 X 12
30	14-3/4	34-1/2	38	2-1/2	1-1/8	15	1/2 X 12

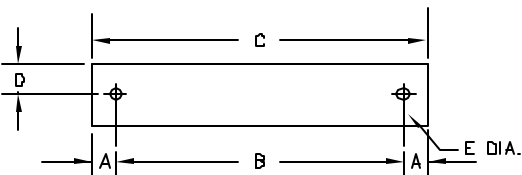


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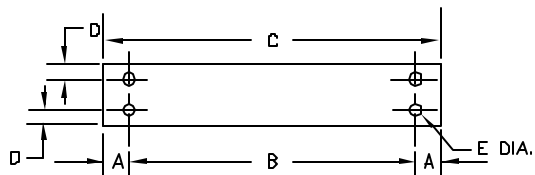
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SIZES 2" THRU 8"



SIZES 10" THRU 30"

HOLD DOWN ANCHOR BASE PLATE____FIG. 116BP

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL AND FINISH

NOTE:

DIMENSIONS MATCH FIG. 116

DIMENSIONS (INCHES)

PIPE SIZE	A	B	C	D	HOLE E	STOCK SIZE
2	1-1/8	5-3/8	7-5/8	1-1/2	7/8	3/8 X 3
2-1/2	1-1/8	5-7/8	8-1/8	1-1/2	7/8	3/8 X 3
3	1-1/8	6-1/2	8-3/4	1-1/2	7/8	3/8 X 3
3-1/2	1-1/8	7	9-1/4	1-1/2	7/8	3/8 X 3
4	1-1/8	7-1/2	9-3/4	1-1/2	7/8	3/8 X 3
5	1-1/8	8-9/16	10-13/16	1-1/2	7/8	3/8 X 3
6	1-1/2	10-5/8	13-5/8	3	1	1/2 X 6
8	1-1/2	12-5/8	15-5/8	3	1	1/2 X 6
10	1-3/4	15-1/4	18-3/4	1-1/2	1-1/8	1/2 X 8
12	1-3/4	17-1/4	20-3/4	1-1/2	1-1/8	1/2 X 8
14	1-3/4	18-1/2	22	2	1-1/8	1/2 X 10
16	1-3/4	20-1/2	24	2	1-1/8	1/2 X 10
18	1-3/4	22-1/2	26	2-1/2	1-1/8	1/2 X 12
20	1-3/4	24-1/2	28	2-1/2	1-1/8	1/2 X 12
24	1-3/4	28-1/2	32	2-1/2	1-1/8	1/2 X 12
30	1-3/4	34-1/2	38	2-1/2	1-1/8	1/2 X 12



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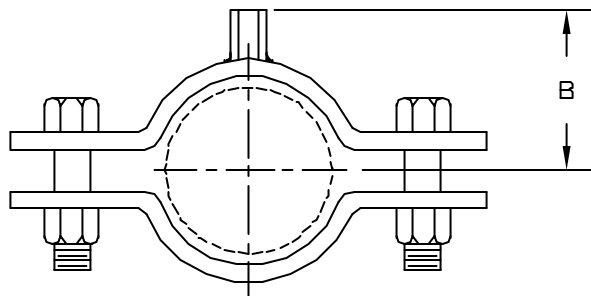


FIG. 124

2-BOLT CLAMP WITH ROD COUPLING WELDED ON____FIG. 124

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE, ROD SIZE
MATERIAL AND FINISH

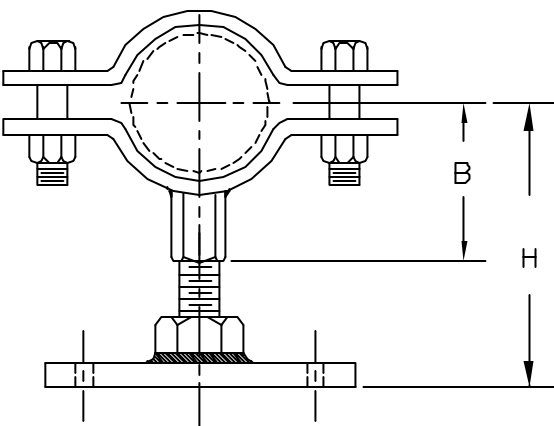


FIG. 125

2-BOLT CLAMP WITH ROD COUPLING
AND BASE_____FIG. 125

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, HEIGHT,
MATERIAL AND FINISH

NOTE:

BASE IS FIG. 32

DIMENSIONS (INCHES)

PIPE SIZE	ROD SIZE	B APPROX.	MINIMUM H
3/8	3/8	2-3/16	3-1/8
1/2	3/8	2-5/16	3-1/4
3/4	3/8	2-7/16	3-3/8
1	3/8	2-9/16	3-1/2
1-1/4	3/8	2-11/16	3-5/8
1-1/2	3/8	2-13/16	3-3/4
2	3/8	3-3/16	4-1/8
2-1/2	1/2	3-7/16	4-3/8
3	1/2	3-3/4	4-5/8
4	5/8	4-1/2	6



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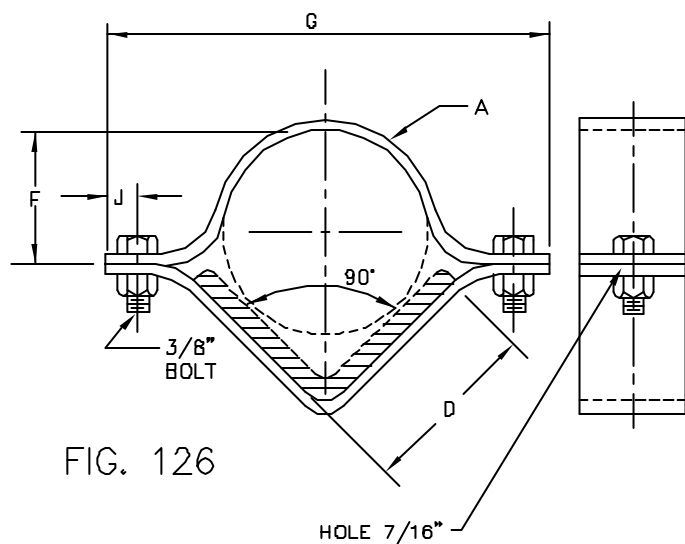


FIG. 126

HALF V AND HALF ROUND PIPE CLAMP FIG. 126

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
PIPE SIZE,
MATERIAL AND FINISH

DIMENSIONS (INCHES)

PIPE SIZE	BAR A	D	F	G	J
1	1/8 X 1	1	1	3-3/4	3/8
1-1/2	1/8 X 1-1/4	1-1/4	1-1/8	4-3/4	9/16
2	1/8 X 1-1/4	2-1/4	1-7/16	6	7/16
3	1/8 X 1-1/4	3-1/2	1-7/8	8	5/8
4	1/8 X 1-1/4	4	2-7/8	8-1/2	1/2

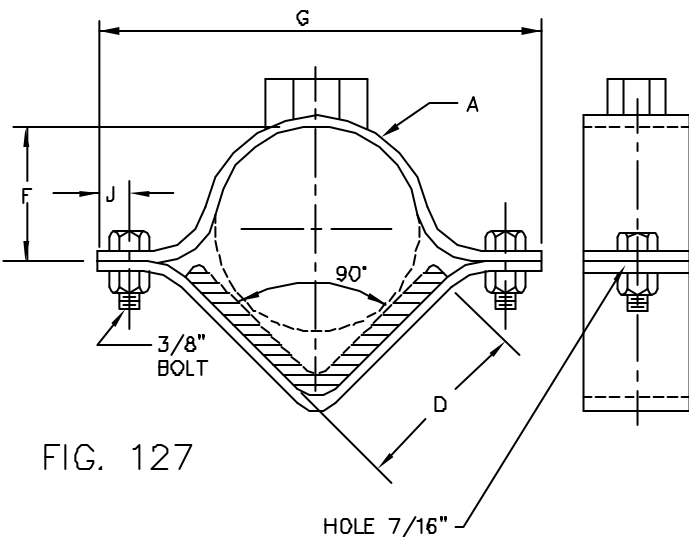


FIG. 127

HALF V AND HALF ROUND CLAMP WITH ROD COUPLING FIG. 127

MATERIAL:

CARBON STEEL OR
STAINLESS STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
PIPE SIZE, ROD SIZE,
MATERIAL AND FINISH



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RIGHT ANGLE PIPE OR
CONDUIT CLAMP_____FIG. 130

MATERIAL:

PLATED STEEL AND MALLEABLE

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
AND PIPE SIZE

DIMENSIONS (INCHES)

PIPE SIZE	A	B	APPROX. WEIGHT PER 100
1/2	2	5/16	41
3/4	2-5/16	5/16	42
1	2-1/2	5/16	47
1-1/4	2-7/8	5/16	54
1-1/2	3-1/4	5/16	57
2	3-7/8	3/8	85
2-1/2	4-3/8	3/8	106
3	5-1/8	3/8	110
3-1/2	5-1/2	3/8	128
4	6-1/8	3/8	140

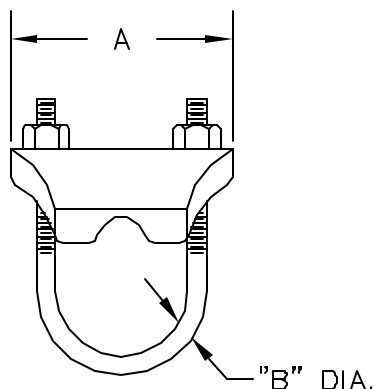


FIG. 130

PARALLEL PIPE OR CONDUIT
CLAMP_____FIG. 131

MATERIAL:

PLATED STEEL AND MALLEABLE

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
AND PIPE SIZE

DIMENSIONS (INCHES)

PIPE SIZE	A	B	APPROX. WT./100
1/2	1/2	7/8	59
3/4	1/2	1-1/8	64
1	1/2	1-3/8	70
1-1/4	1/2	1-1/2	72
1-1/2	1/2	1-5/8	93
2	5/8	2	128
2-1/2	5/8	2-1/4	135
3	5/8	2-1/2	155
3-1/2	5/8	2-3/4	190

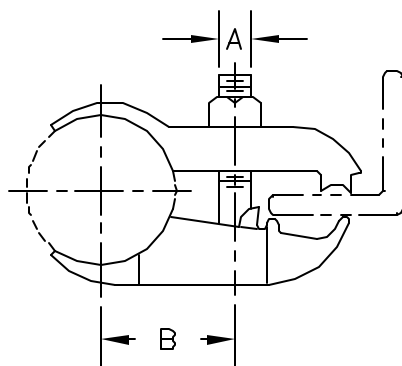


FIG. 131

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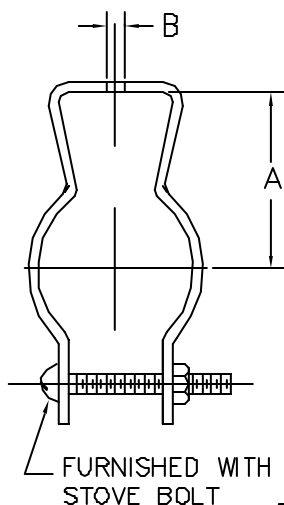


FIG. 132

CONDUIT CLAMP_____FIG. 132

MATERIAL:

PLATED STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
SIZE AND MATERIAL

DIMENSIONS (INCHES)

PIPE SIZE	A	B	STOCK SIZE	APPROX. WEIGHT PER 100
3/8	7/8	1/4	.080 X 1	5.4
1/2	7/8	1/4	.060 X 1	5.4
3/4	15/16	1/4	.060 X 1	5.9
1	1-1/8	1/4	.060 X 1	7.7
1-1/4	1-3/8	1/4	.060 X 1	10
1-1/2	1-7/16	1/4	.080 X 1-1/4	16
2	1-15/16	1/4	.060 X 1-1/4	21
2-1/2	2-1/16	1/4	.080 X 1-1/4	23
3	2-7/16	5/16	.060 X 1-1/4	27

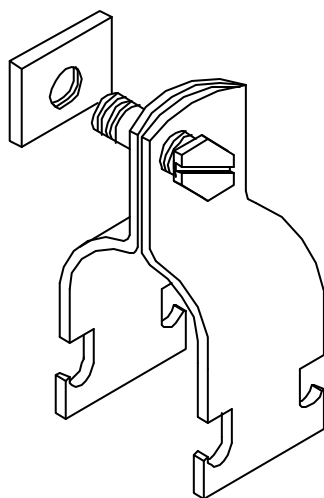


FIG. 133

STRUT CLAMP PIPE HANGER FIG. 133

MATERIAL:

STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE AND CLAMP THICKNESS

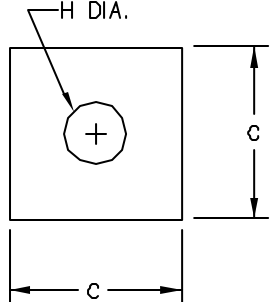


FIG. 140

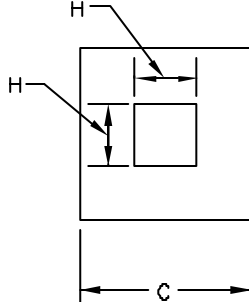


FIG. 141

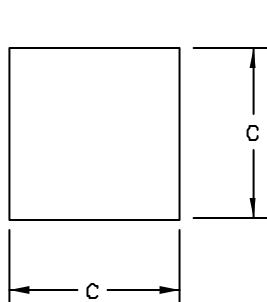


FIG. 142

FIG.
140
141
142
143

DIMENSIONS IN INCHES

APPROX. WEIGHT PER 100	THICKNESS OF PLATES						
	1/8	3/16	1/4	3/8	1/2	5/8	3/4
2 X 2	28	42	56	85	112	140	170
3 X 3	32	48	64	96	128	160	192
4 X 4	57	83	113	170	225	285	340
5 X 5	89	133	177	266	329	400	530
6 X 6	128	191	255	383	510	560	766

SQUARE WASHERS

ROUND HOLE_____FIG. 140
SQUARE HOLE_____FIG. 141
SOLID (HARD SHIM)____FIG. 142

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, WIDTH, THICKNESS, HOLE SIZE, MATERIAL AND FINISH

NOTE: HOLE IS 1/16TH LARGER FOR 1 INCH AND SMALLER ROD OR BOLT. HOLE IS 1/8TH INCH LARGER FOR 1 1/4 INCH AND LARGER ROD OR BOLT FIG. 7 WASHER PLATES ARE FOR FIG. 27 & 28 TRAPEZES

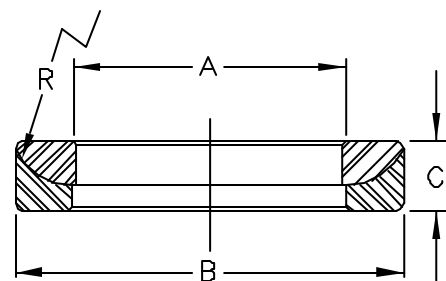


FIG. 143

ROCKER WASHER
ASSEMBLY__FIG. 143

MATERIAL:

ALLOY STEEL

ORDERING:

SPECIFY NAME,
FIGURE NUMBER,
AND ROD SIZE

DIMENSIONS IN INCHES

ROD SIZE	RADIUS R	A	B	C	APPROX. WEIGHT PER 100
3/8	1-1/2	13/32	15/16	1/4	3
1/2	1-3/4	17/32	1-3/16	5/16	9
5/8		21/32	1-3/8		13
3/4	2-3/4	25/32	1-5/8	3/8	21
7/8		15/16	1-7/8		23
1	2-3/4	1-1/16	2		44
1-1/8	3	1-3/16	2-1/4	1/2	56
1-1/4	3-3/8	1-5/16	2-5/8		76
1-1/2	3-1/2	1-9/16	2-7/8	9/16	92



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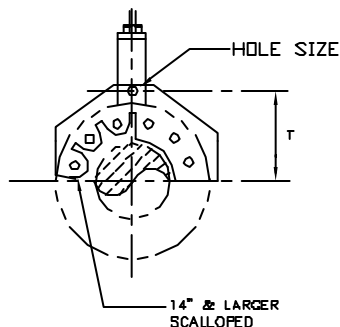
FLANGED COMPONENT HANGER_____ FIG. 150 (SOMETIMES CALLED A MICKEY MOUSE HANGER)

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
FLANGE CLASS; 150, 300, LOAD,
MATERIAL AND FINISH



SIZE	HOLE SIZE	T
2	9/16	4
3	9/16	5-1/2
4	9/16	6-1/4
6	9/16	7-1/2
8	11/16	8-7/8
10	13/16	10-1/8
12	15/16	11-3/4
14	15/16	12-7/8
16	1-1/8	14-5/8
18	1-1/8	15-3/8
20	1-1/8	16-3/4
24	1-7/16	19

FIG. 150

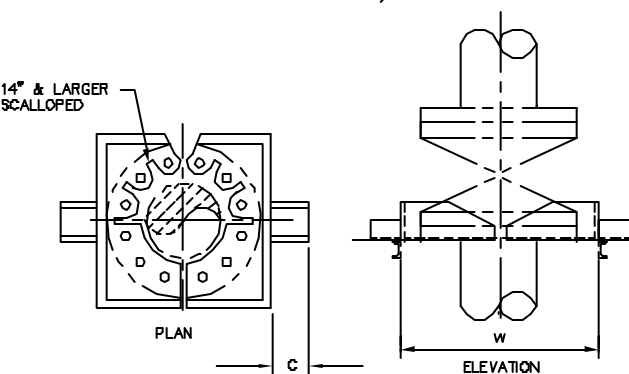
VERTICAL PIPE FLANGED COMPONENT SUPPORT_____ FIG. 151

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, FLANGE CLASS; 150, 300,
LOAD, MATERIAL AND FINISH



DIMENSIONS

SIZE	C	W
2	4	13
3	4	13
4	4	14-1/2
6	4	16-1/2
8	6	21
10	6	23
12	6	26
14	6	26
16	6	31
18	6	33
20	6	35
24	6	40

FIG. 151



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HORIZ. PIPE FLANGE SUPPORT – OFF-CENTER____FIG. 152

HORIZ. PIPE FLANGE SUPPORT – CENTER____FIG. 152C

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, FLANGE CLASS; 150, 300,
LOAD, MATERIAL AND FINISH

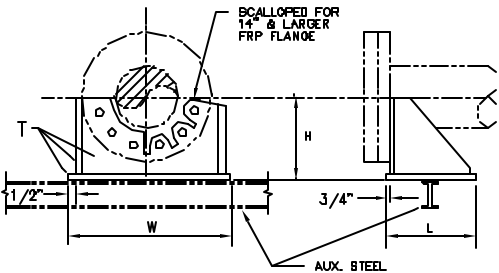


FIG. 152

DIMENSIONS IN INCHES

PIPE SIZE	H	L	W	T
2	7	7	9	1/4
3	7	7	10-1/2	
4	7	7	12	
6	14	12	14	3/8
8	14	12	16-1/2	
10	14	12	19	
12	14	12	22	
14	20	15	25	3/8
16	20	15	27-1/2	
18	20	15	29	
20	20	15	31	
24	20	15	36	
30	23	19	42-3/4	
36	27-3/8	19	50	3/8

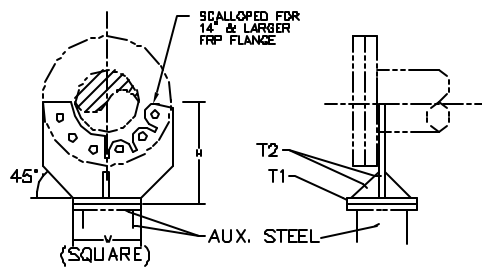


FIG. 152C

DIMENSIONS IN INCHES

PIPE SIZE	H	W	T1	T2	
2	7	6	1/2	1/4	
3	7	7-1/2			
4	7	9			
6	14	10	1/2	3/8	
8	14				
10	14				
12	14	12			
14	20	12	3/4		
16	20	15			
18	20				
20	20				
24	20				
30	23				
36	27-3/8	15			



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RUBBER LINED SHOES FOR INSULATED FRP PIPE:

TYPE S (SUPPORT) OPEN TOP _____ FIG. 153S

TYPE G (GUIDE) 2 STRAPS ON TOP _____ FIG. 153G

TYPE A (ANCHOR) FULL WIDTH CLAMP TOP _____ FIG. 153A

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

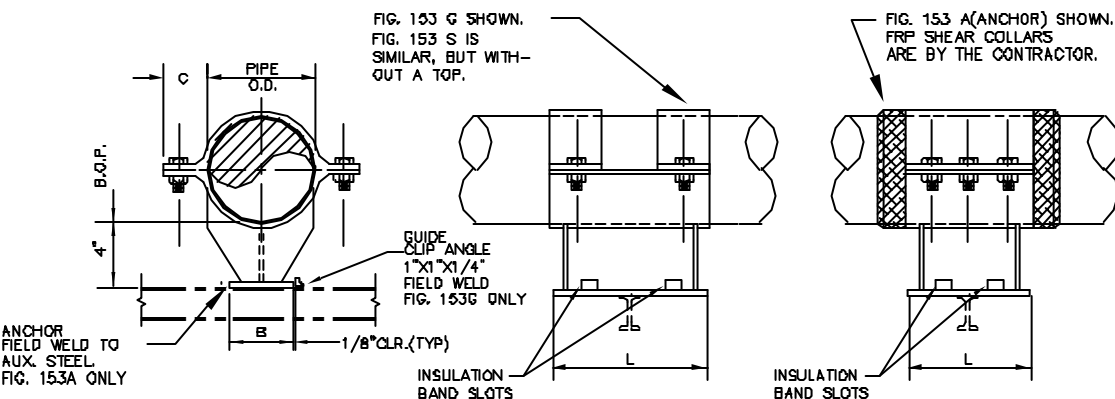
SPECIFY NAME, FIGURE NUMBER, EXACT PIPE O.D.,
HANGER MATERIAL AND FINISH

FIG. 153

DIMENSIONS (INCHES)

PIPE SIZE	B	L	C
2-4	4	8	2-5/16
6-12	6	12	2-3/8
14-18	8	14	2-5/8

360 DEGREE SHOE SUPPORT WITH CLAMPS
& RUBBER LINER FOR FRP PIPE_____ FIG. 154

MATERIAL:

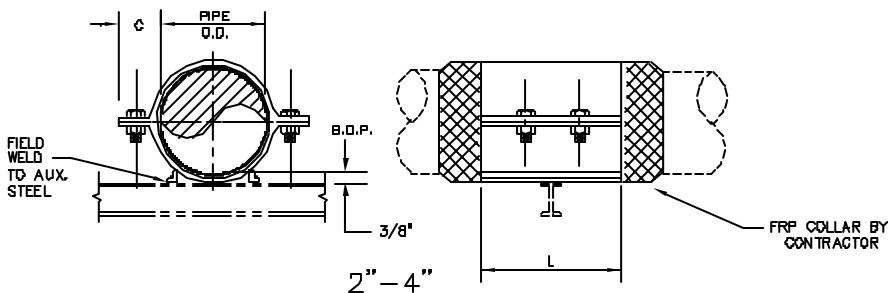
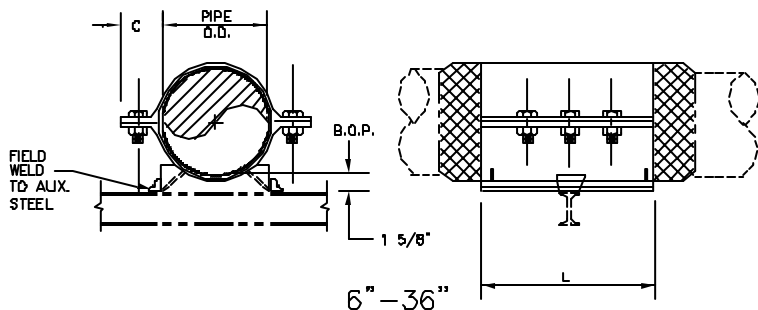
CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,

EXACT PIPE O.D., HANGER MATERIAL

AND FINISH



DIMENSIONS (INCHES)

PIPE SIZE	C	L
2	1-5/8	6
3	1-5/8	6
4	1-5/8	6
6-12	2-3/8	12
14-20	2-5/8	14
24	2-5/8	16
30-36	2-5/8	20

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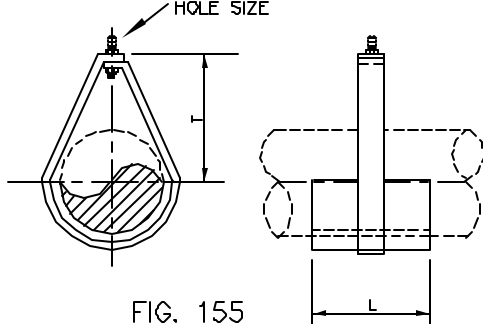


FIG. 155

PEAR SHAPE HANGER WITH RUBBER
LINED SHIELD_____FIG. 155

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,

EXACT PIPE OUTSIDE DIAMETER

HANGER MATERIAL AND FINISH

STANDARD MATERIALS:

1/8TH INCH THICK RED RUBBER,

A-36 CARBON STEEL

DIMENSIONS (INCHES)

SIZE	L	T	HOLE SIZE
2	6	3-1/4	7/16
3	6	5	9/16
4	6	6	11/16
6	6	8	13/16
8	8	10	15/16
10	8	12	15/16
12	12	14-1/2	15/16
14	12	16-3/4	1-1/8
16	12	18-7/8	1-1/8
18	12	21-1/8	1-1/8
20	14	23-1/4	1-5/16
24	16	27-3/4	1-5/16
30	16	35-1/4	1-5/16
36	16	40-3/4	1-5/16

CAUTION:

FIG. 155 PEAR SHAPED HANGER MUST
SLIP OVER PIPE END. IT IS TOO STIFF
TO OPEN UP TO GO ACROSS THE PIPE
OR OVER FLANGES.

DIMENSIONS (INCHES)

PIPE SIZE	T	L	HOLE SIZE
2	5-5/8	6	7/16
3	6-1/8	6	9/16
4	7-3/8	6	11/16
6	8-7/8	6	13/16
8	9-7/8	8	15/16
10	11-3/4	8	15/16
12	13	12	15/16
14	14-1/2	12	1-1/8
16	17-1/8	12	1-1/8
18	18-1/4	12	1-1/8
20	19-7/8	14	1-5/16
24	22-3/8	16	1-5/16

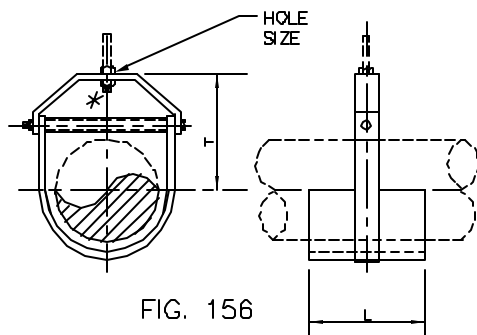


FIG. 156

CLEVIS HANGER WITH RUBBER LINED SHIELD_____FIG. 156

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE

OUTSIDE DIAMETER, HANGER MATERIAL AND

FINISH, BOLT MATERIAL AND FINISH

STANDARD MATERIALS:

1/8TH INCH THICK RED RUBBER,

PLATED A-307 BOLTS, A-36 CARBON STEEL

* 20 INCH SIZE AND LARGER ARE
FURNISHED WITH A PIPE SPACER
OVER THE BOLT.

FIG. 156SD(SPECIAL DESIGN)
AVAILABLE FOR LARGE O.D.
DUCT LIGHT LOADS.



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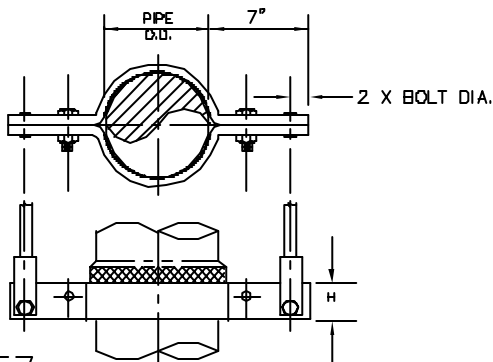
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DIMENSIONS (INCHES)

PIPE SIZE	H	T	BOLT SIZE
2	3	3/8	1/2
3	3	3/8	1/2
4	3	3/8	1/2
6	3	3/8	1/2
8	4	5/8	5/8
10	4	5/8	5/8
12	4	5/8	3/4
14	4	5/8	3/4
16	4	3/4	7/8
18	5	3/4	7/8
20	5	3/4	7/8
24	6	1	1-1/8
30	7	1	1-1/8
36	7	1-1/4	1-1/4

FIG. 157 & 158S/G



RUBBER LINED 4-BOLT RISER CLAMP__FIG. 157

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE OUTSIDE DIAMETER, HANGER MATERIAL AND FINISH, BOLT MATERIAL AND FINISH

STANDARD MATERIAL:

1/8TH INCH THICK RED RUBBER, PLATED A-307 BOLTS, A-36 CARBON STEEL

FIG. 157

RUBBER LINED 2-BOLT RISER CLAMP__FIG. 158S/G
(S=SUPPORT, G=GUIDE)

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE OUTSIDE DIAMETER, HANGER MATERIAL AND FINISH, BOLT MATERIAL AND FINISH

STANDARD MATERIALS:

1/8TH INCH THICK RED RUBBER, PLATED A-307 BOLTS, A-36 CARBON STEEL

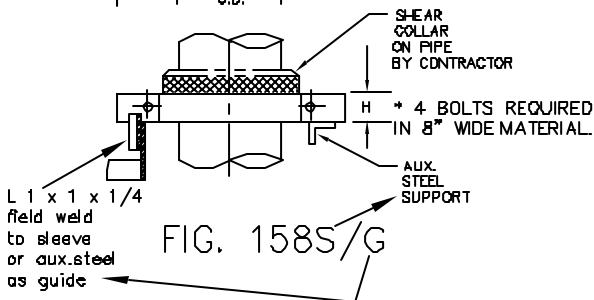
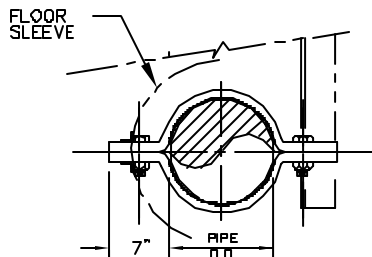


FIG. 158S/G

DIMENSIONS (INCHES)

PIPE SIZE	H	T	BOLT SIZE
2			
3	3	1/4	1/2
4			
6			
8			
10	3	3/8	5/8
12			
14	4	1/2	3/4
16			
18			
20	6	1/2	1
24			
30	8 *	3/4	1-1/8
36			

* 4 BOLTS REQUIRED IN 8" WIDE MATERIAL.



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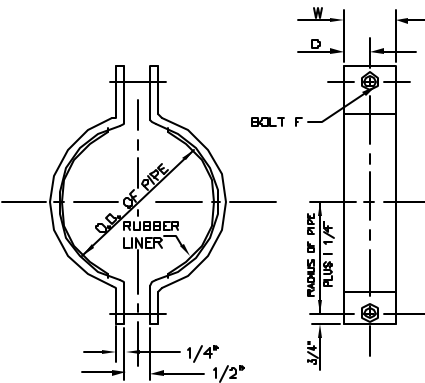


FIG. 160

SPECIAL RUBBER LINED CLAMP FOR FRP PIPE:
3 & 4 INCH _____ FIG. 160
6, 8, & 10 INCH _____ FIG. 161
12 THRU 18 INCH _____ FIG. 162
20 AND 24 INCH _____ FIG. 163
30 AND 36 INCH _____ FIG. 164

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE OUTSIDE DIAMETER, HANGER MATERIAL AND FINISH, AND BOLT MATERIAL AND FINISH

STANDARD MATERIAL:

1/8TH INCH THICK RED RUBBER, A-307 PLATED BOLTS, A-36 CARBON STEEL

NOTE: SEE FIG. 169, 170 AND 174 FOR BASES AND FIN SUPPORT

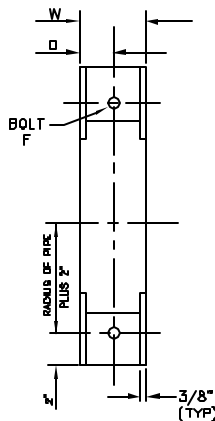
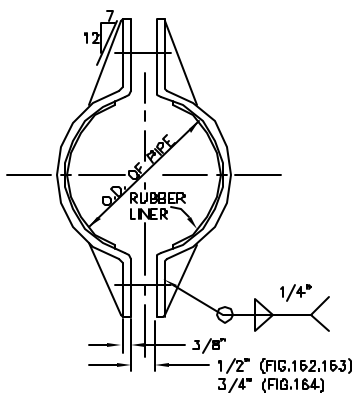


FIG. 161

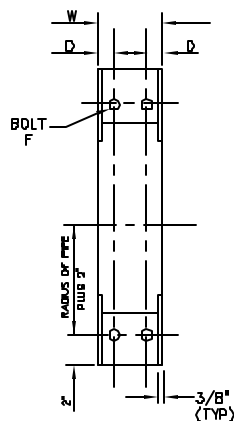


FIG. 162, 163 & 164

DIMENSIONS (INCHES)

PIPE SIZE	CLAMP FIG. NO.	LUG FIG. NO.	BOLT F	W	D	MAXIMUM RECOMMENDED LOAD (LBS.)
3 THRU 4	160	—	5/8 X 3-1/2	2	1	1040
6 THRU 10	161	165	3/4 X 3-1/2	4	2	1615
12 THRU 18	162	166	3/4 X 4	6	1-1/2	3230
20 THRU 24	163	167	7/8 X 5	8	2	4960
30 THRU 36	164	168	1-1/8 X 5	10	2	6000



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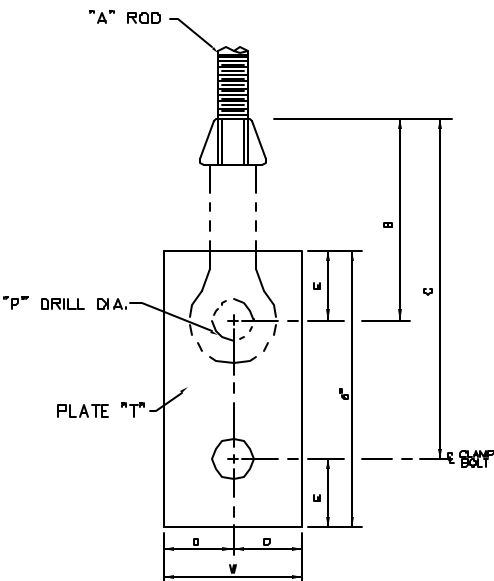


FIG. 165

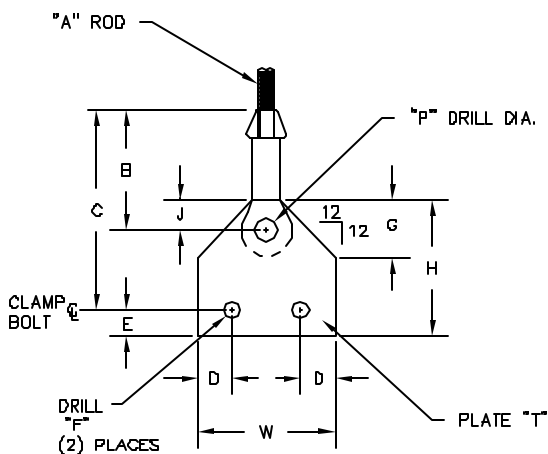


FIG. 166, 167 & 168

SPECIAL HANGING LUG FOR FRP PIPE CLAMPS:

6,8 & 10 INCH _____ FIG. 165

12 THRU 18 INCH _____ FIG. 166

20 AND 24 INCH _____ FIG. 167

30 AND 36 INCH _____ FIG. 168

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,

PIPE SIZE, MATERIAL AND FINISH

DIMENSIONS (INCHES)

PIPE SIZE	LUG FIG. NO.	ROD SIZE A	B	C	D	E	BOLT HOLE F	G	H	J	PIN HOLE P	W	T
6 THRU 10	165	5/8	4-5/16	7-5/16	1-1/2	1-1/2	13/16	-	6	-	13/16	3	3/8
12 THRU 18	166	7/8	5-7/8	9-5/16	1-1/2	1-1/2	13/16	2-1/2	7	1-1/2	1-1/8	6	1/2
20 THRU 24	167	1	6-5/16	10-5/16	2	1-1/2	15/16	3-1/4	7-1/4	1-3/4	1-1/4	8	3/4
30 THRU 36	168	1-1/4	6-5/16	10-5/16	2	1-1/2	1-1/4	4	7-3/4	2-1/4	1-1/2	10	3/4



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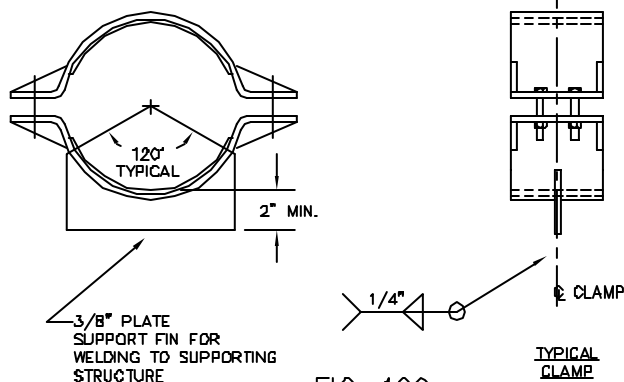


FIG. 169

SPECIAL RUBBER LINED CLAMP FOR FRP PIPE WITH SUPPORT FIN___FIG. 169

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE OUTSIDE DIAMETER,
HANGER MATERIAL AND FINISH, AND BOLT MATERIAL AND FINISH
STANDARD MATERIALS: 1/8TH INCH THICK RED RUBBER, A-307
PLATED BOLTS, A-36 CARBON STEEL

NOTE: CLAMPS ARE SAME AS FIG. 160 THRU 164

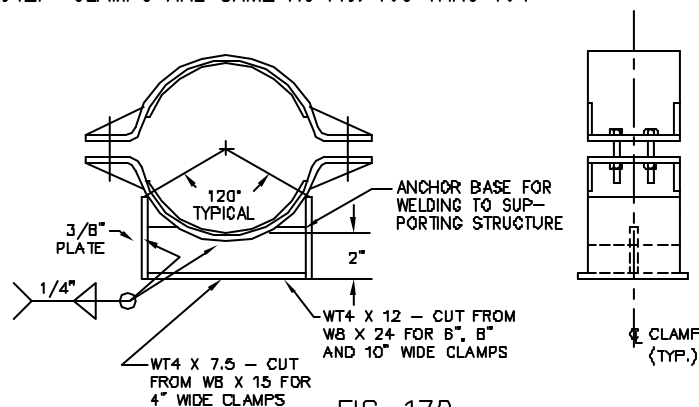


FIG. 170

SPECIAL RUBBER LINED CLAMP FOR FRP PIPE WITH ANCHOR BASE___FIG. 170

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE OUTSIDE DIAMETER,
HANGER MATERIAL AND FINISH, AND BOLT MATERIAL AND FINISH
STANDARD MATERIALS: 1/8TH INCH THICK RED RUBBER, PLATED
A-307 BOLTS, A-36 CARBON STEEL

NOTE: CLAMPS ARE SAME AS FIG. 160 THRU 164



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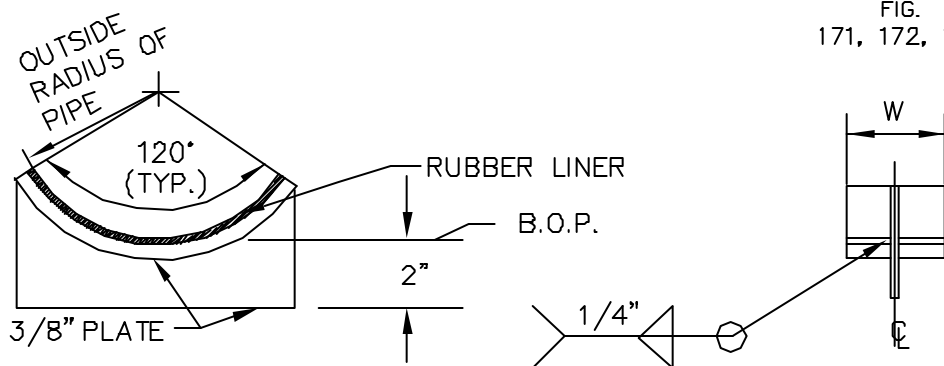


FIG. 171, 172 & 173

SPECIAL RUBBER LINED SADDLE FOR FRP PIPE WITH FIN SUPPORT:

6, 8, & 10 INCH _____ FIG. 171
 12 THRU 18 INCH _____ FIG. 172
 20 AND 24 INCH _____ FIG. 173

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE OUTSIDE
DIAMETER, HANGER MATERIAL AND FINISH,

NOTE: FIN HEIGHT IS 2-INCHES UNLESS SPECIFIED

DIMENSIONS (INCHES)

FIG. No.	NOMINAL PIPE SIZE	CRADLE WIDTH W	FIN HEIGHT UNLESS SPECIFIED
171	6, 8, & 10	4	2
172	12, 14, 16, & 18	6	2
173	20, & 24	8	2

ALL WELDS ARE CONTINUOUS FULL PENETRATION.

ALL SHARP EDGES AND CORNERS ARE GROUND TO 1/8"
RADIUS AND ALL WELD SPLATTER IS REMOVED BEFORE
COATING OR LINING.LINED WITH 1/8" THICK RED RUBBER BONDED TO CLEAN
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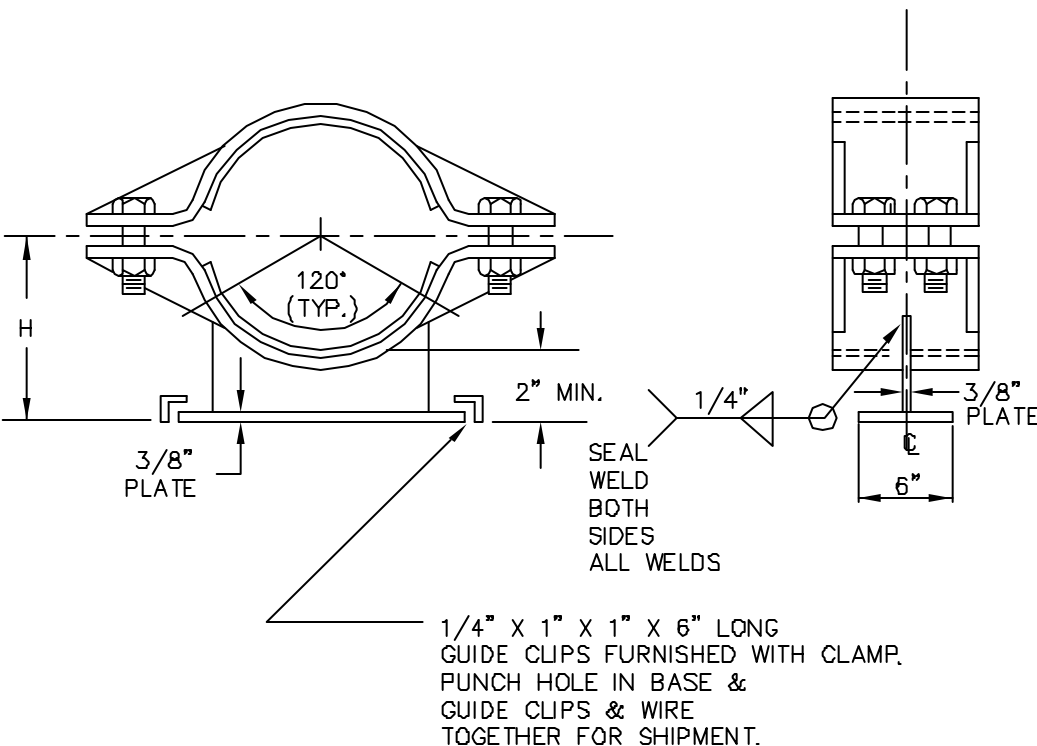


FIG. 174

SPECIAL RUBBER LINED CLAMP FOR FRP PIPE, WITH SLIDE BASE—FIG. 174

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE OUTSIDE DIAMETER,
HANGER MATERIAL AND FINISH, HEIGHT "H", BOLT MATERIAL AND FINISH
STANDARD MATERIALS:

1/8TH INCH THICK RED RUBBER, PLATED A-307 BOLTS, A-36 CARBON
STEEL

NOTE: CLAMPS ARE SAME AS FIG. 160 THRU 164



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RUBBER LINED SHOE SUPPORTS FOR
UNINSULATED FRP PIPE:

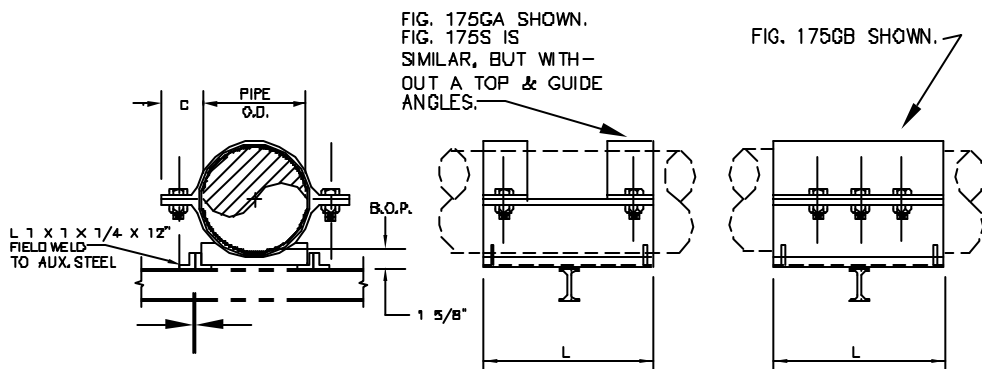
TYPE GA (GUIDE) 2 STRAPS ON TOP _____ FIG. 175GA
TYPE GB (GUIDE) FULL WIDTH CLAMP TOP _____ FIG. 175GB
TYPE S (SUPPORT) OPEN TOP _____ FIG. 175 S

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
EXACT PIPE O.D., HANGER MATERIAL
AND FINISH



1/8" CLR. TYP.

DIMENSIONS (INCHES)

PIPE SIZE	C	L
2	1-5/8	6
3	1-5/8	6
4	1-5/8	6
6-12	2-3/8	12
14-20	2-5/8	14
24	2-5/8	16
30-36	2-5/8	20

RUBBER LINED WIDE CLAMPS FOR FRP PIPE:

FOR NON-INSULATED PIPE _____ FIG. 176

FOR INSULATED PIPE _____ FIG. 176I

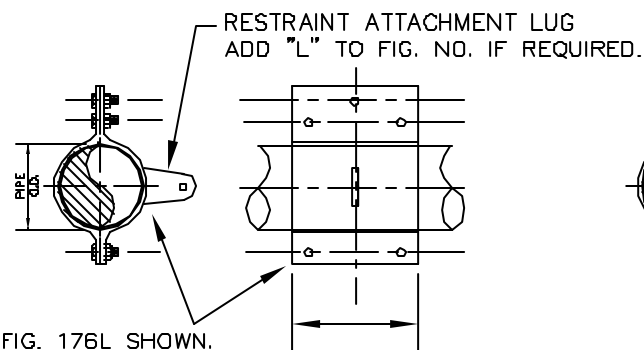
FOR NON-INSULATED PIPE W/LUG _____ FIG. 176L

FOR INSULATED PIPE W/LUG _____ FIG. 176LI

MATERIAL:

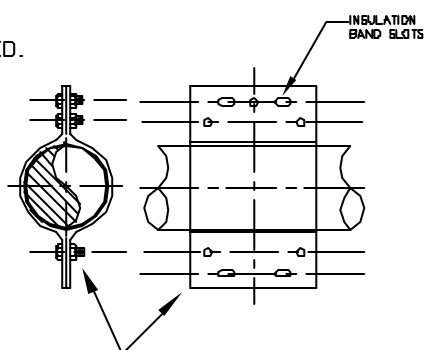
CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, EXACT PIPE O.D.,
INSULATION THICKNESS,
HANGER MATERIAL AND FINISHFIG. 176L SHOWN.
FIG. 176 IS SAME
EXCEPT NO LUG.

L

DIMENSIONS (INCHES)

FIG. 176I SHOWN.
ADD ATTACHMENT LUG
AND MAKE IT A FIG. 176 LI.

PIPE SIZE	L	NUMBER OF CLAMP BOLTS
2" - 10"	8	4
12" - 18"	12	6
20" - 24"	14	6
30" - 36"	16	8

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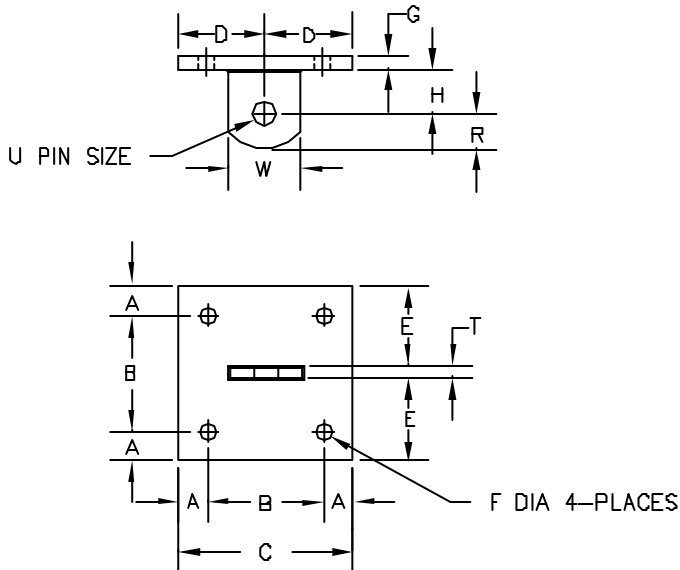


FIG. 200

CONCRETE ANCHOR PLATE WITH LUG FOR FORGED CLEVIS_____FIG. 200

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD SIZE, MATERIAL AND FINISH

LOADS—DIMENSIONS—INCHES

ROD SIZE (INCHES)	MAXIMUM RECOMMENDED LOAD, LB	A	B	C	D	HOLE F	G	H	R	E	T	U	W
3/8	610	1	8	10	5	9/16	3/8	1-1/2	1-1/4	4-7/8	1/4	1/2	2-1/2
1/2	1130	1	8	10	5	9/16	3/8	1-1/2	1-1/4	4-7/8	1/4	5/8	2-1/2
5/8	1810	1	8	10	5	9/16	1/2	1-1/2	1-1/4	4-7/8	1/4	3/4	2-1/2
3/4	2710	1	8	10	5	11/16	1/2	1-1/2	1-1/4	4-13/16	3/8	7/8	2-1/2
7/8	3770	1	8	10	5	11/16	3/4	2	1-1/4	4-13/16	3/8	1	2-1/2
1	4960	2	8	12	6	13/16	3/4	2	1-1/2	5-3/4	1/2	1-1/8	3
1-1/4	8000	2	8	12	6	15/16	1	3	2	5-11/16	5/8	1-3/8	4
1-1/2	11630	2	8	12	6	1-1/8	1	3	2-1/2	5-5/8	3/4	1-5/8	5
1-3/4	15700	2	8	12	6	1-3/8	1-1/4	3	2-1/2	5-5/8	3/4	1-7/8	5
2	20700	2	8	12	6	1-3/8	1-1/4	4	3	5-5/8	3/4	2-1/4	6

BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING

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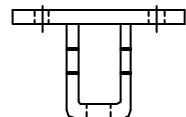
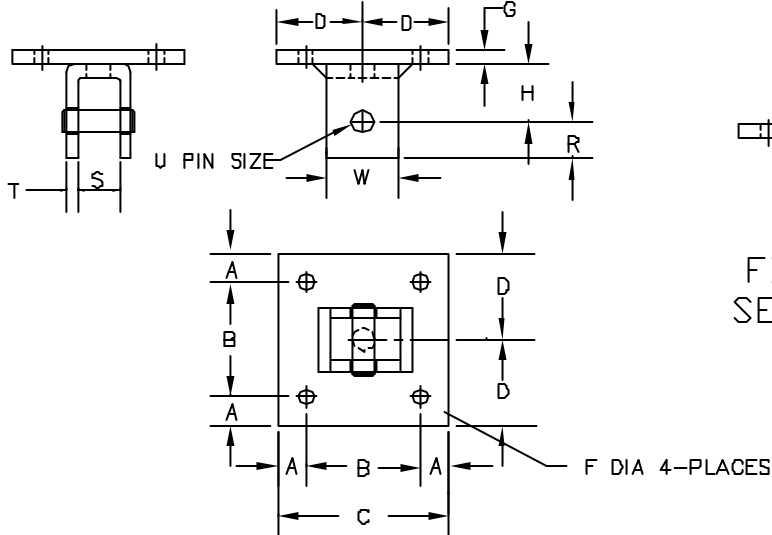


FIG. 202
SEE NOTE

FIG. 201

CONCRETE ANCHOR PLATE WITH WELDED BEAM ATTACHMENT____FIG. 201

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD SIZE, MATERIAL AND FINISH

NOTE:

FIG. 202 WITHOUT PIN AND WITH INVERTED BEAM ATTACHMENT IS AVAILABLE, AND SHOULD NOT BE USED FOR PIPE ABOVE 4"

LOADS-DIMENSIONS-INCHES

ROD SIZE (INCHES)	MAXIMUM RECOMMENDED LOAD, LB	A	B	C	D	HOLE F	G	H	R	S	T	U	W
3/8	610	1	8	10	5	9/16	3/8	2	7/8	1-1/4	1/4	1/2	2
1/2	1130	1	8	10	5	9/16	3/8	2	7/8	1-1/4	1/4	5/8	2
5/8	1810	1	8	10	5	9/16	1/2	2	1	1-1/4	1/4	3/4	2
3/4	2710	1	8	10	5	11/16	1/2	2	1-1/8	1-1/2	3/8	7/8	2-1/2
7/8	3770	1	8	10	5	11/16	1/2	3	1-1/4	2	3/8	1	2-1/2
1	4960	2	8	12	6	13/16	3/4	3	1-1/2	2	1/2	1-1/8	3
1-1/4	8000	2	8	12	6	15/16	3/4	3	2	2-1/2	5/8	1-3/8	4
1-1/2	11630	2	8	12	6	1-1/8	1	4	2-1/2	3	3/4	1-5/8	5
1-3/4	15700	2	10	14	7	1-3/8	1-1/4	5	2-3/4	3-3/4	3/4	1-7/8	5
2	20700	2	10	14	7	1-3/8	1-1/4	5	3-1/4	3-3/4	3/4	2-1/4	6

BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING



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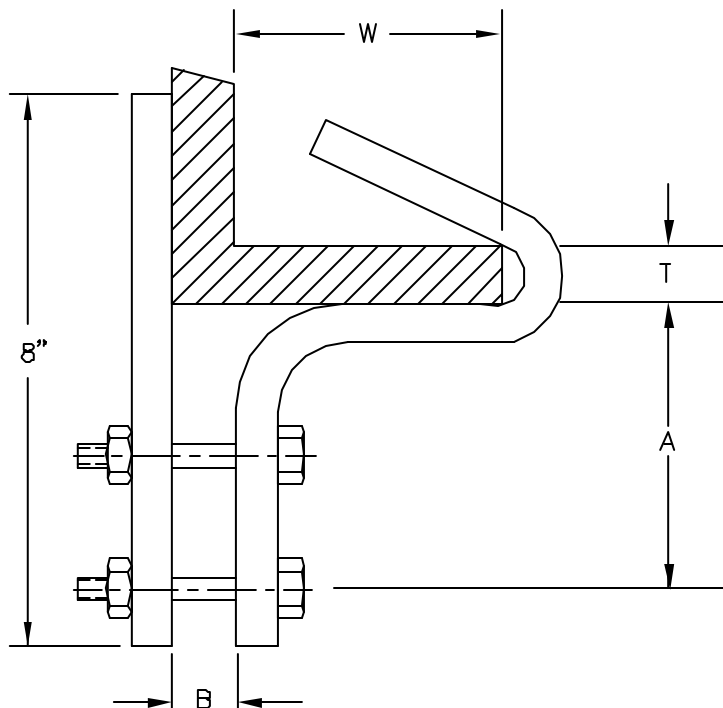


FIG. 220

ANGLE OR CHANNEL BEAM CLAMP _____ FIG. 220

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, CLAMP NUMBER,
FLANGE WIDTH (W) AND THICKNESS (T), CLAMP
MATERIAL AND FINISH

CAUTION:

THE USER'S ENGINEER MUST CHECK BEAM STRESSES
PRODUCED BY THIS CLAMP

DIMENSIONS (INCHES)

CLAMP NO.	A	B	BOLT SIZE	STEEL SIZE	MAX. RECOM. LOAD LBS.
1	3-3/4	7/16	3/8 X 1-3/4	1/4 X 1-1/4	225
2	4	9/16	1/2 X 2-1/4	3/8 X 1-1/2	540
3	4-1/2	11/16	5/8 X 2-1/2	1/2 X 2	700



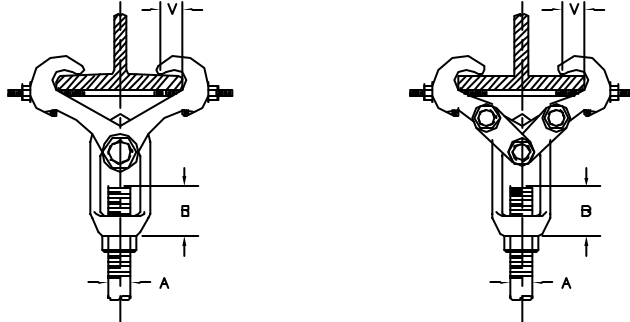


FIG. 230 & 230L

BEAM CLAMP WITH WELDLESS EYE NUT:

RIGHT HAND_____FIG. 230

LEFT HAND_____FIG. 230L

MATERIAL:

FORGED STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD SIZE,
CLAMP SIZE AND FINISH

CAUTION:

THE USER'S ENGINEER MUST CHECK BEAM
STRESSES PRODUCED BY THIS CLAMP

LOADS—WEIGHTS—DIMENSIONS—INCHES

CLAMP SIZE NO.	MAXIMUM ROD SIZE A	MAXIMUM RECOMMENDED LOAD, LB.	WEIGHT (APPROXIMATE) LBS. EACH	MAXIMUM BEAM FLANGE THICKNESS	B	V
1	3/4	2710	3.9	.60	1-1/4	
2	1	4960	9.2	.60	1-11/16	1-1/8
3	1	4960	13.0	.60	1-11/16	
4	1	4960	21.7	1.031	1-1/2	
5	1	4960	33.9	1.031	1-1/2	1-1/8
6	1-1/2	11500	23.9	1.031	2-1/8	
7	1-1/2	11500	35.8	1.031	2-1/8	
8	2	11500	36.8	1.031	4-9/16	1-1/8

BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING

ROD TAKE-OUT, E-INCHES

CLAMP SIZE NO.	FOR WIDTH OF BEAM FLANGE														
	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	4-1/2	4-5/8	4-1/8	3-5/8	2-7/8	-	-	-	-	-	-	-	-	-	-
2	-	4-3/4	4-7/8	4-1/8	3-3/8	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	5-16/16	6	6-1/16	6	-	-	-	-	-	-	-
4	-	6-13/16	6-5/8	6-3/8	5-7/8	5-7/8	5-3/8	4-13/16	8-1/8	7-3/4	7-1/8	6-5/8	6-1/16	-	-
5	-	-	7	6-3/4	6-1/4	6-5/16	6-13/16	5-3/16	-	-	-	-	-	-	-
6	-	7-3/16	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	8-5/8	8-7/16	8-3/16	7-3/4	7-3/4	7-1/4	6-5/8	8-1/2	8-1/8	7-1/2	7	6-7/16	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*FURNISHED WITH LINKS



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BEAM CLAMP WITH SWING NUT_____FIG. 232

MATERIAL:

FORGED STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, ROD
SIZE, CLAMP SIZE AND FINISH

CAUTION:

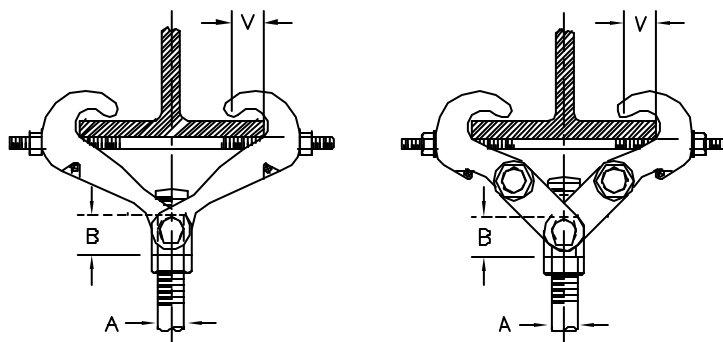
THE USERS ENGINEERS MUST CHECK BEAM
STRESSES PRODUCED BY THIS CLAMP

FIG. 232

LOADS-DIMENSIONS-INCHES

CLAMP SIZE NO.	MAXIMUM ROD SIZE A	MAXIMUM RECOMMENDED LOAD, LB.	MAXIMUM BEAM FLANGE THICKNESS	B	V
1	5/8	1810	.60	1-1/16	1-1/8
2	7/8	3770	.60	1-3/8	
3 *	7/8	3770	.60	1-3/8	
4	1-1/2	11500	1.031	2-3/8	1-1/8
5 *	1-1/2	11500	1.031	2-3/8	

BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING

• FURNISHED WITH LINKS

ROD TAKE-OUT (INCHES)

CLAMP SIZE NO.	ROD TAKE-OUT, E FOR WIDTH OF BEAM FLANGE													
	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	1-9/16	1-1/2	1-5/16	1-1/8	3/4	-	-	-	-	-	-	-	-	
2	-	1-7/16	1-5/16	1-1/8	11/16	-	-	-	-	-	-	-	-	
3	-	-	-	-	1-15/16	1-13/16	1-1/2	1-5/16	-	-	-	-	-	
4	-	2-5/16	2-3/16	2-1/16	1-13/16	1-7/8	1-9/16	1-5/16	-	-	-	-	-	
5	-	-	-	-	-	-	-	3	2-11/16	2-9/16	2-1/4	1-15/16	1-5/8	



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STRUCTURAL WELDING LUG

SHORT _____ FIG. 233

LONG _____ FIG. 233L

MATERIAL:

CARBON STEEL

ORDERING:

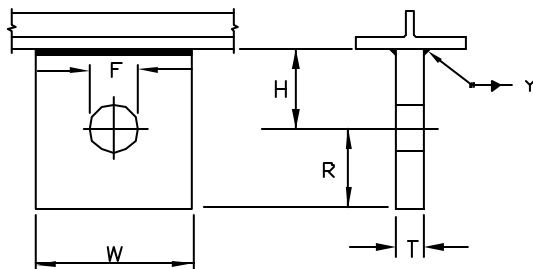
SPECIFY NAME, FIGURE NUMBER,
SIZE NUMBER, "H" DIMENSION
AND FINISH

FIG. 233 & 233L

LOADS-DIMENSIONS-INCHES

ROD SIZE (INCHES)	MAXIMUM RECOMMENDED LOAD LBS **		PIN OR BOLT	HOLE F	H		R	T	W	MINIMUM Y
	FIG. 233 SHORT	FIG. 233L LONG			FIG. 233 SHORT	FIG. 233L LONG				
1/2	1130	1130	5/8	11/16	1-1/2	3	1-1/4	1/4	2-1/2	1/4
5/8	1810	1810	3/4	13/16	1-1/2	3	1-1/4	1/4	2-1/2	1/4
3/4	2710	2710	7/8	15/16	1-1/2	3	1-1/4	3/8	2-1/2	1/4
7/8	3770	3770	1	1-1/8	2	3	1-1/4	3/8	2-1/2	1/4
1	4980	4980	1-1/8	1-1/4	2	3	1-1/2	1/2	3	1/4
1-1/4	8000	8000	1-3/8	1-1/2	3	4	2	5/8	4	1/4
1-1/2	11830	11830	1-5/8	1-3/4	3	4-1/2	2-1/2	3/4	5	3/8
1-3/4	15700	15700	1-7/8	2	3	4-1/2	2-1/2	3/4	5	3/8
2	20630	20630	2-1/4	2-3/8	4	4-1/2	3	3/4	6	3/8
2-1/4	23000	-	2-1/2	2-5/8	4-1/2	-	3	3/4	6	1/2
2-1/2	30650	-	2-3/4	2-7/8	4-1/2	-	4	1	8	1/2
2-3/4	41600	-	3	3-1/8	4-1/2	-	4	1	8	1/2
3	50500	-	3-1/4	3-3/8	5	-	4	1	8	5/8
3-1/4	60500	-	3-1/2	3-5/8	5	-	4-1/2	1	9	5/8
3-1/2	71300	-	3-3/4	3-7/8	6	-	4-1/2	1-1/2*	9	5/8
3-3/4	82900	-	4	4-1/8	6	-	5	1-3/4*	9	5/8

** BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING.

* 1-1/4 THICKNESS WHEN DOUBLE LUG IS USED; THEN, IS 26.2 FOR 3-1/2 INCH SIZE AND 25.6 FOR 3-3/4 INCH SIZE.



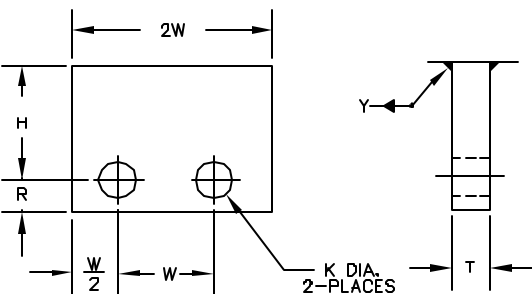


FIG. 235

TWO HOLE WELDING LUG_ FIG. 235
FOR SINGLE ROD SUSPENSION
OF TYPE B & C HORIZONTAL
CONSTANTS

MATERIAL:
CARBON STEEL

ORDERING:
SPECIFY NAME,
FIGURE NUMBER,
ROD SIZE,
AND "H" DIMENSION

ROD SIZE	MAX. LOAD RATING (LBS.)**	H* CONSTANT SUPPORT FRAME SIZES					PIN OR BOLT	K HOLE	R	T	W	ZW	W 2	Y
		1-8	10-18	19-34	35-49	50-63								
1/2	1130	1-1/2	1-1/2	2	3	—	5/8	11/16	1-1/4	3/8	2-1/2	5	1-1/4	1/4
5/8	1810	1-1/2	1-1/2	2	3	—	3/4	13/16	1-1/4	3/8	2-1/2	5	1-1/4	1/4
3/4	2710	—	1-1/2	2	3	4	7/8	15/16	1-1/4	3/8	2-1/2	5	1-1/4	1/4
1	4960	—	—	2	3	4	1-1/8	1-1/4	1-1/2	1/2	3	6	1-1/2	1/4
1-1/4	8000	—	—	2	3	4	1-3/8	1-1/2	2	5/8	4	8	2	1/4
1-1/2	11630	—	—	—	3	4	1-5/8	1-3/4	2-1/2	3/4	5	10	2-1/2	1/4
1-3/4	15700	—	—	—	3	4	1-7/8	2	2-1/2	3/4	5	10	2-1/2	1/4
2	20630	—	—	—	—	4	2-1/4	2-3/8	3	3/4	6	12	3	3/8
2-1/4	23000	—	—	—	—	4	2-1/2	2-5/8	3	3/4	6	12	3	3/8

*SELECT "H" DIMENSION APPLICABLE TO CONSTANT SUPPORT FRAME SIZE

** BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING.

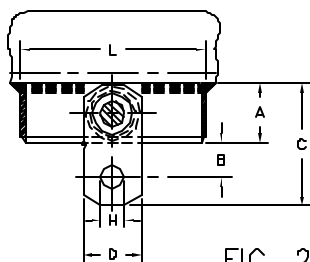
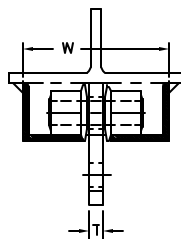


FIG. 240



HORIZONTAL TRAVELER_ FIG. 240

MATERIAL:
CARBON STEEL

ORDERING:
SPECIFY NAME, FIGURE NUMBER,
SIZE NUMBER, "H" DIMENSION
AND FINISH

LOADS—WEIGHTS—DIMENSIONS—INCHES

SIZE NO.	MAXIMUM RECOM. LOAD, LB.	WEIGHT (APPROX.) LB. EACH	A	B	C	D	MAX.	L	T	W
1	3770	15	2-1/2	1-5/8	5-3/8	2-1/2	1-1/8	15-1/8	3/4	4-5/8
2	6230	37	3-1/2	2-5/8	7-7/8	3-1/2	1-3/8	16-3/8	3/4	6-7/8
3	11630	69	5	3	10-1/2	5	1-3/4	17-7/8	1	8-7/16
4	20700	102	6	3-1/2	12-1/2	6	2-3/8	19-1/8	1-1/2	9-7/8



PIPE WELDING LUG

FOR LONG RADIUS ELBOW _____ FIG. 250

FOR SHORT RADIUS ELBOW _____ FIG. 251

FOR FIVE DIAMETER BEND _____ FIG. 252

MATERIAL:

CARBON STEEL OR ALLOY

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL, FINISH AND "E" DIMENSION

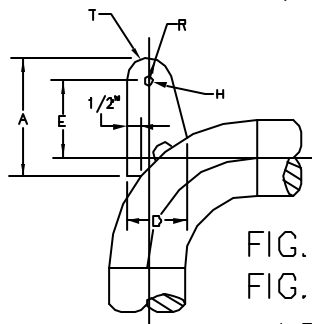


FIG. 250

FIG. 251

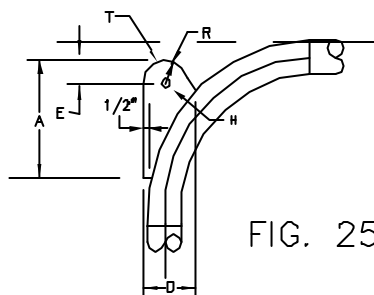


FIG. 252

LOADS-DIMENSIONS

PIPE SIZE	MAX. RATED LOAD	MAX. ROD SIZE	D	MAX. HOLE DIA. H*	R	THICK- NESS T	FIG. 250		FIG. 251		FIG. 252	
							A	E**	A	E**	A	E**
2-1/2 3	2710	3/4	3-1/2	15/16	1-1/2	1/4	9	6	8-5/8 8-1/2	6-1/2	10-1/2 11-1/2	0
4 6	3770	7/8	3-1/2	1-1/16	1-1/2	3/8	9-1/8 9-1/4	6	8-3/4 8-7/8	7 7-1/2	12-1/8 12-3/4	2 6-1/2
8 10	4960 8000	1 1-1/4	5 7	1-3/8 1-1/2	2 3	3/8 1/2	11-3/8 14	6-1/2	10-5/8 12-1/2	8-1/2	15-1/2 19-3/8	11 16
12 14	11630	1-1/2	7	1-3/4	3	1/2	14-1/4 14-3/4	6-1/2 6	12-3/4 13	9	20-5/8 21	20 26
16 18	15690	1-3/4	8-1/2	1-7/8	3-1/2	3/4	16-3/8 16-5/8	6	14-3/8 14-1/2	9-1/2 10	23-1/4 23-1/2	31 36
20 24	20690 27200	2 2-1/4	8-1/2	2-3/8 2-5/8	3-1/2	1	16-7/8 17-1/2	6	15-1/4 15-5/8	11 12	23-7/8 24-1/2	41 51

* HOLE DIAMETER SHOULD BE SPECIFIED 1/16" GREATER THAN PIN DIAMETER FOR PIN SIZES THRU 1" AND 1/8" GREATER THAN PIN DIAMETER FOR PIN SIZES 1-1/8" AND LARGER

** ACCOMMODATES 4 INCHES OF INSULATION.

WELDING LUG-FOR VERTICAL RISER__ FIG. 253

MATERIAL:

CARBON STEEL OR ALLOY

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
MATERIAL, LINE TEMPERATURE, TOTAL LOAD,
CENTER TO CENTER OF DROP RODS, AND
PLATE THICKNESS

NOTE:

A DRAWING MUST BE
FURNISHED.

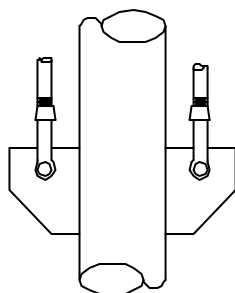


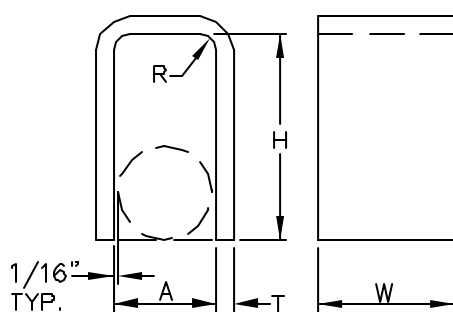
FIG. 253



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AND
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FAX: (251) 653-5356

HORIZONTAL PIPE RESTRAINT,
WELDED _____ FIG. 257

MATERIAL:

CARBON STEEL

OR STAINLESS STEEL

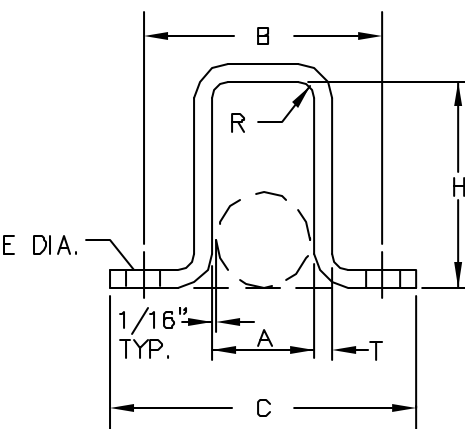
ORDERING:

SPECIFY NAME, FIGURE NUMBER

PIPE SIZE,

MATERIAL AND FINISH

FIG. 257

HORIZONTAL PIPE RESTRAINT,
BOLTED _____ FIG. 258

MATERIAL:

CARBON STEEL

OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,

PIPE SIZE,

MATERIAL AND FINISH

FIG. 258

DIMENSIONS (INCHES)

PIPE SIZE	A	FIG. 258				H	R	T	W
		B	C	D	E				
1/2	15/16	2-7/8	4-1/8	1	13/16	3	3/8	1/4	2
3/4	1-5/32	3-1/16	4-5/16	1	13/16	3	3/8	1/4	2
1	1-14/32	3-5/16	4-9/16	1	13/16	3-1/4	3/8	1/4	2
1-1/4	1-25/32	3-11/16	4-5/16	1-1/2	13/16	3-1/2	9/16	3/8	3
1-1/2	2	3-15/16	5-3/16	1-1/2	13/16	4	9/16	3/8	3
2	2-1/2	5-3/8	7-5/8	1-1/2	13/16	4-1/2	9/16	3/8	3
2-1/2	3	5-7/8	8-1/8	1-1/2	1	5	3/4	1/2	3
3	3-5/8	6-1/2	8-3/4	1-1/2	1	5-1/2	3/4	1/2	4
4	4-5/8	7-1/2	9-3/4	1-1/2	1	6-1/2	3/4	1/2	4
6	6-3/4	10-5/8	13-5/8	3	1	8-1/2	3/4	1/2	6
8	8-3/4	12-5/8	15-5/8	3	1	10-1/2	3/4	1/2	6
10	10-7/8	15-1/4	18-3/4	2-1/2	1-1/8	13-1/4	3/4	1/2	8
12	12-7/8	17-1/4	20-3/4	2-1/2	1-1/8	15-1/4	3/4	1/2	8



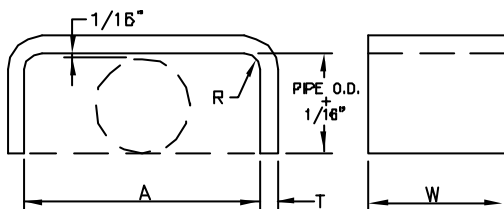


FIG. 259

VERTICAL PIPE RESTRAINT, WELDED FOR HORIZONTAL PIPE____FIG. 259

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE, MATERIAL AND FINISH

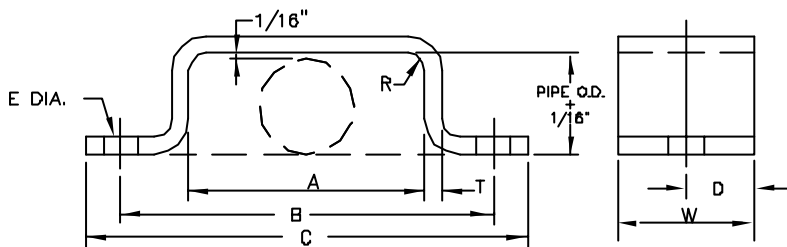


FIG. 260

VERTICAL PIPE RESTRAINT, BOLTED FOR HORIZONTAL PIPE____FIG. 260

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE, MATERIAL AND FINISH

DIMENSIONS (INCHES)

PIPE SIZE	A	FIG. 260				R	T	W
		B	C	D	HOLE E			
1/2	3	2-1/2	6-3/16	1	13/16	3/8	1/4	2
3/4	3-1/2	2-15/16	6-11/16	1	13/16			
1	4	3-5/16	7-3/16	1	13/16			
1-1/4	4-1/2	3-5/8	7-3/4	1-1/2	13/16	9/16	3/8	3
1-1/2	5	3-15/16	8-3/16	1-1/2	13/16			
2	5-1/2	8-9/16	10-13/16	1-1/2	13/16			
2-1/2	6	9-1/16	11-5/16	1-1/2	1	3/4	1/2	3 4
3	6-1/2	9-9/16	11-13/16	1-1/2	1			
4	7-1/2	9-9/16	12-13/16	1-1/2	1			
6	9-3/4	13-5/8	16-5/8	3	1	3/4	1/2	4 6
8	11-3/4	15-5/8	18-5/8	3	1			
10	14	18-9/16	22-1/16	3-1/2	1-1/8			
12	16	20-9/16	24-1/16	3-1/2	1-1/8	3/4	1/2	8



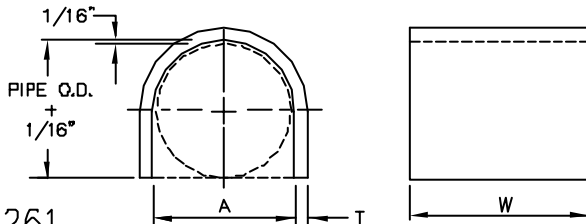


FIG. 261

HORIZONTAL AND VERTICAL PIPE RESTRAINT,
WELDED FOR HORIZONTAL PIPE_____FIG. 261

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE, MATERIAL AND FINISH

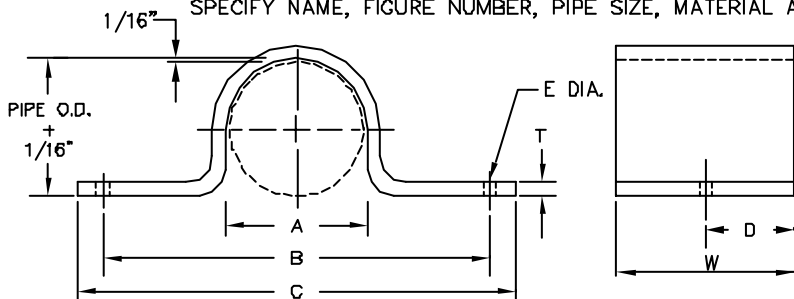


FIG. 262

HORIZONTAL AND VERTICAL PIPE RESTRAINT,
BOLTED FOR HORIZONTAL PIPE_____FIG. 262

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE, MATERIAL AND FINISH

DIMENSIONS (INCHES)

PIPE SIZE	A	FIG. 262				T	W
		B	C	D	E		
1/2	15-18	2-7/8	4-1/8	1	13/16	1/4	2
3/4	1-5/32	3-1/16	4-5/16	1	13/16	1/4	2
1	1-14/32	3-5/16	4-9/16	1	13/16	1/4	2
1-1/4	1-25/32	3-11/16	4-15/16	1-1/2	13/16	3/8	3
1-1/2	2	3-15/16	5-3/16	1-1/2	13/16	3/8	3
2	2-1/2	5-3/8	7-5/8	1-1/2	13/16	3/8	3
2-1/2	3	5-7/8	8-1/8	1-1/2	1	1/2	3
3	3-5/8	6-1/2	8-3/4	1-1/2	1	1/2	4
4	4-5/8	7-1/2	9-3/4	1-1/2	1	1/2	4
6	6-3/4	10-5/8	13-5/8	3	1	1/2	6
8	8-3/4	12-5/8	15-5/8	3	1	1/2	6
10	10-7/8	15-1/4	18-3/4	2-1/2	1-1/8	1/2	8
12	12-7/8	17-1/4	20-3/4	2-1/2	1-1/8	1/2	8



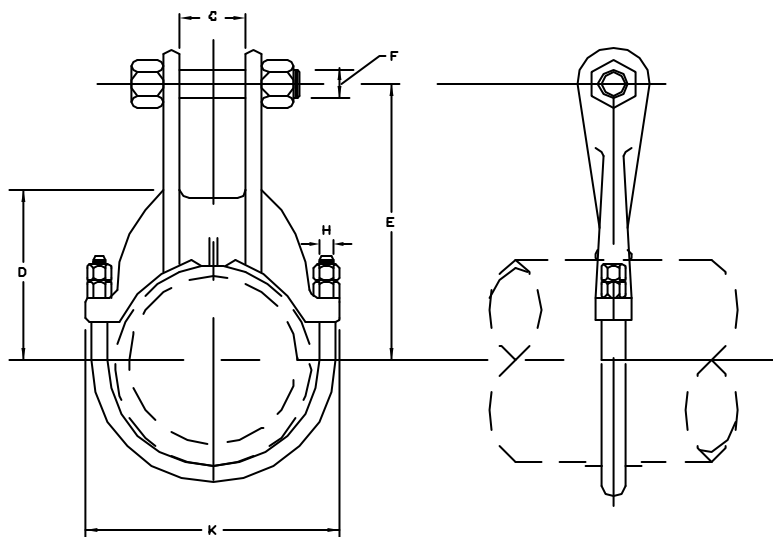


FIG. 270

ALLOY STEEL YOKE PIPE CLAMP, STANDARD _____ FIG. 270

ORDERING:

SPECIFY NAME, FIGURE NUMBER AND PIPE SIZE

DIMENSIONS (INCHES)

PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB.*				C	D	E	F	H	K
	750°F	950°F	1000°F	1050°F						
4	3780	3300	2770	1890	1-1/16	3-7/8	6-3/4	7/8	1/2	6-1/2
6	6060	5290	4440	3030	1-7/16	5-7/16	8-5/16	1	5/8	9-1/8
8	6060	5290	4440	3030	1-7/16	6-11/16	9-9/16	1	5/8	11-1/8
10	9060	7910	6640	4420	1-7/16	8-3/8	10-7/8	1-1/8	3/4	13-5/8
12	12570	10980	9015	6010	1-15/16	10-1/8	12-7/8	1-1/2	7/8	16-1/8
14	12570	10980	9015	6010	1-15/16	11-1/8	13-7/8	1-1/2	7/8	17-3/8
16	12570	10980	9015	6010	1-15/16	12-1/4	15	1-1/2	7/8	19-5/8

* BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING
OVERTIGHTENING OF NUTS MAY OVERSTRESS U-BOLTS REDUCING THE LOAD RATING.
INSTALLATION TAG ATTACHED TO CLAMP GIVES PROPER NUT TIGHTENING



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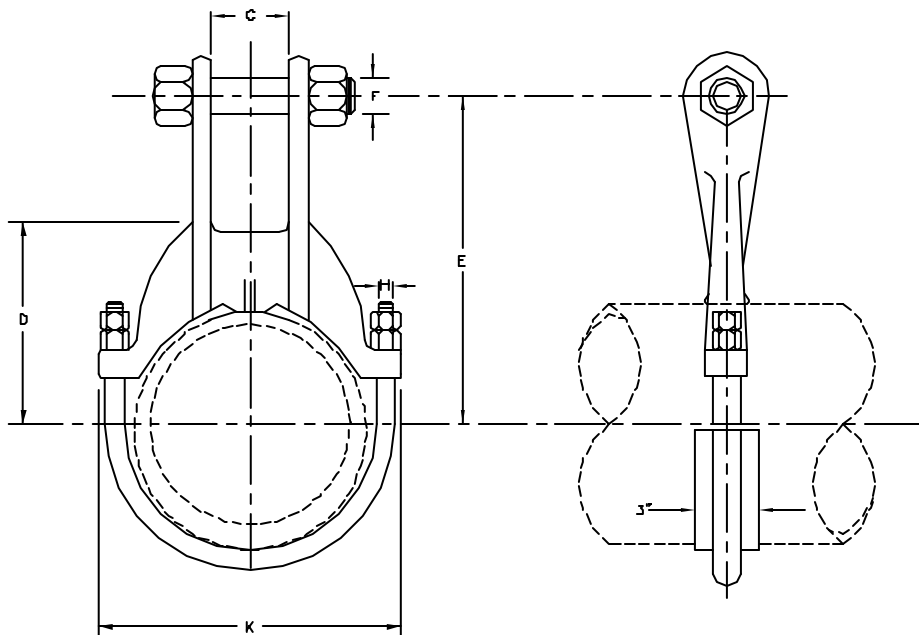


FIG. 271

ALLOY STEEL YOKE PIPE CLAMP, HEAVY _____ FIG. 271

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
AND EXACT PIPE OUTSIDE DIAMETER

NOTE: SPECIAL ALLOY FILLER PLATE SHOWN IS
ONLY FURNISHED WHEN PIPE O.D. IS NOT STANDARD

LOADS-DIMENSIONS(INCHES)

NOM. PIPE SIZE	USED ON O.D. PIPE SIZE	MAXIMUM RECOMMENDED LOAD, LB.*				C	D	E	H	K	F
		@950°F	@1000°F	@1050°F	@1075°F						
10	8-3/4 THRU 10-13/16	13500	11780	7850	8120	2	9-1/8	12	1	15-3/8	1-1/2
12	10-7/8 THRU 12-13/16	16500	14970	9940	7750	2-1/4	10-3/4	13-3/4	1-1/4	17-7/8	1-5/8
14	12-7/8 THRU 14-1/16	16500	14970	9940	7750	2-1/4	11-1/2	14-1/2	1-1/4	19-1/8	1-5/8
16	14-1/8 THRU 16-1/16	16500	14970	9940	7750	2-1/4	13-1/8	16-3/8	1-1/4	21-1/8	1-5/8
18	16-1/8 THRU 18-1/16	19000	18410	12270	9570	2-1/2	14-1/2	18-1/4	1-1/4	24-1/8	2
20	18-1/8 THRU 20-1/16	19000	18410	12270	9570	2-1/2	15-3/4	19-1/2	1-1/4	26-1/8	2
24	20-1/8 THRU 24-1/16	25000	22280	14850	11580	3	18-1/4	22	1-3/8	30-3/4	2-1/4

* BASED ON THE ALLOWABLE STRESSES SHOWN IN THE ANSI CODE FOR PRESSURE PIPING.
OVERTIGHTENING OF NUT MAY OVERSTRESS U-BOLTS REDUCING THE LOAD RATING.
INSTALLATION TAG ATTACHED TO CLAMP GIVES PROPER NUT TIGHTENING.



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TYPICAL SOCKET ASSEMBLIES SHOWING THE USE OF HARDWARE ITEMS
FIG. 272 THRU FIG. 277

NOTES: FIG. 272 AND FIG. 273 CLAMPS ARE INTERCHANGEABLE IN
THESE ASSEMBLIES.

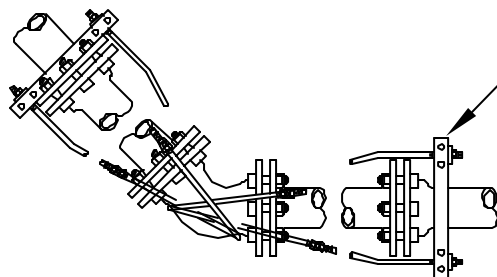
ADDITIONAL ASSEMBLIES ARE SHOWN IN NFPA NO. 24,
STANDARD OF THE NATIONAL FIRE PROTECTION ASSOCIATION.

YOKES WITH TANGENTS LONGER THAN SHOWN ON FIG. 275

MUST BE MADE SPECIAL TO THE CUSTOMERS ORDER.

IF TIME DOES NOT PERMIT THE SPECIAL ORDER, USE ROD COUPLING

FIG. 3 AND ADDITIONAL LENGTHS OF ROD. ORDER EACH PART SEPARATELY.



ANCHORS AT 1/8 BEND

FIG. 273

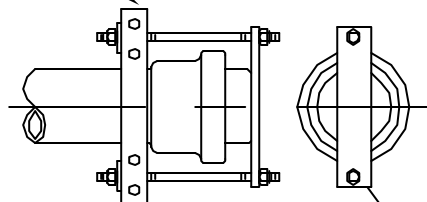
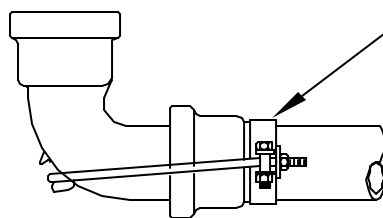


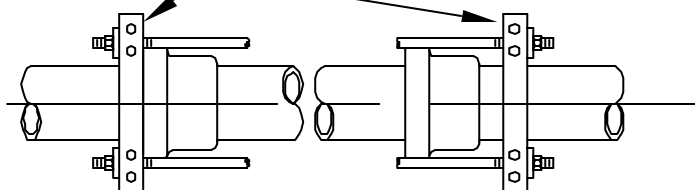
FIG. 276

PLUG STRAP FOR
BELL END OF PIPE

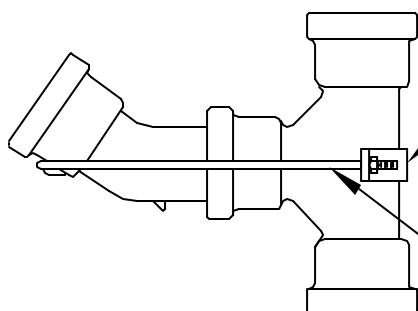


ANCHORS FOR 1/4 BEND SPIGOT END

FIG. 273



PIPE ANCHOR



ANCHOR FOR BELL AND TEE
AND 1/8 BEND SPIGOT END

FIG. 277

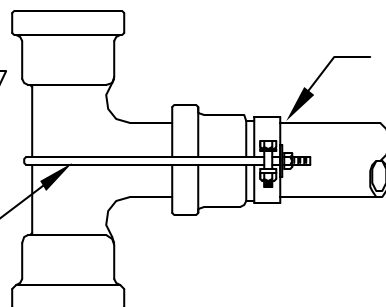
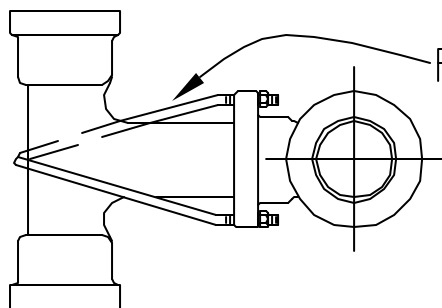


FIG. 273

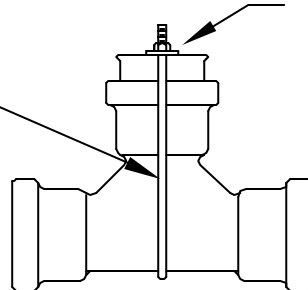
TEE ANCHOR



HYDRANT ANCHOR TO SPIGOT TEE

FIG. 275

FIG. 276



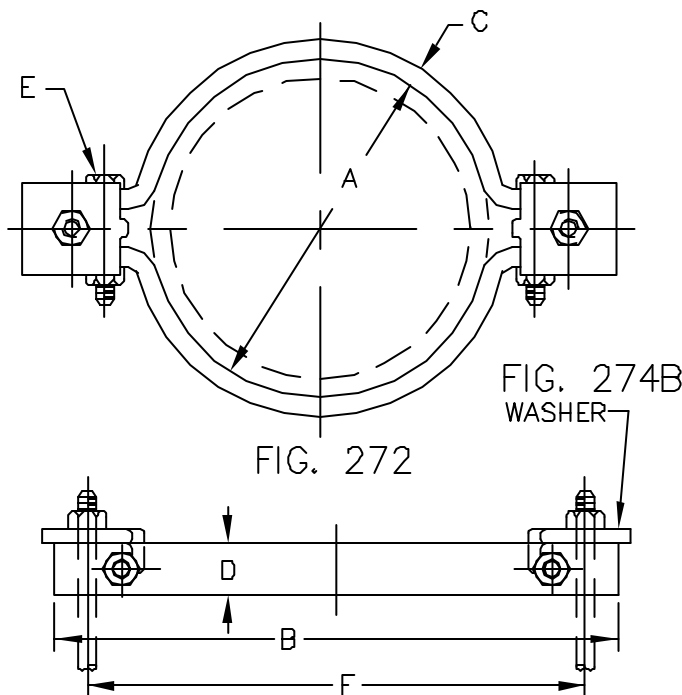
PLUG STRAP FOR TEE BELL



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SOCKET CLAMP, 2-BOLT _____ FIG. 272

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,

PIPE O.D., CLAMP MATERIAL AND FINISH

NOTE: FIG. 274 WASHER MUST BE ORDERED SEPARATELY

WEIGHTS-DIMENSIONS-INCHES

PIPE SIZE	WGT (APPROX) LBS EACH		A	B	C	D	BOLT E	F	ROD SIZE
	CLAMP	WASHER							
4	11.0	1.2	5	12-1/8	1/2	2	5/8 X 3-1/2	9-3/4	3/4
6	12.7	1.2	7-1/8	14-3/8	1/2	2	5/8 X 3-1/2	12	3/4
8	14.5	1.2	9-5/16	16-5/8	1/2	2	5/8 X 3-1/2	14-1/4	3/4
10	16.3	1.2	11-3/8	18-7/8	1/2	2	5/8 X 3-1/2	16-1/2	3/4
12	18.3	1.2	13-1/2	21-1/4	1/2	2	5/8 X 3-1/2	18-7/8	3/4
14	48.7	2.7	15-3/4	25-1/2	3/4	3	7/8 X 4-1/2	22-3/8	1-1/4
16	69.2	2.7	17-7/8	28	3/4	4	1 X 4-1/2	24-3/4	1-1/4
18	82.0	4.5	20	31-1/2	3/4	4	1-1/4 X 5	27-5/8	1-1/4
20	97.5	4.5	22-1/8	33-3/4	3/4	4-1/2	1-1/4 X 5	29-3/4	1-3/8
24	132.0	6.8	26-3/8	39-3/4	3/4	5	1-1/2 X 5-1/2	35-1/4	1-1/2



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SOCKET CLAMP, 4-BOLT _____ FIG. 273

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,

PIPE O.D., CLAMP MATERIAL AND FINISH

NOTE:

FIG. 274 WASHER MUST BE ORDERED SEPARATELY

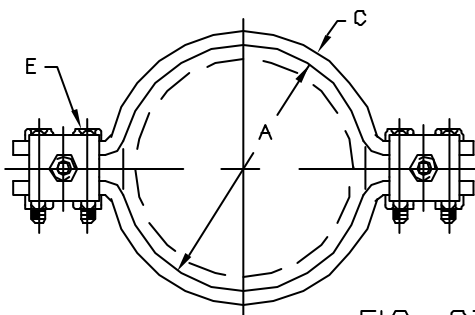


FIG. 274A

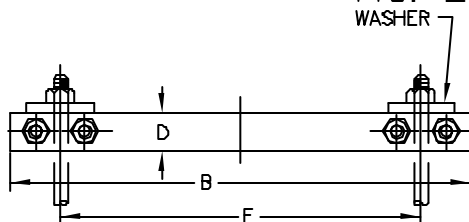


FIG. 273

LOADS-DIMENSIONS(INCHES)

PIPE SIZE	MAX. TEST PRESSURE P.S.I.	FORCE* ON CLAMP, LB.	A	B	C	D	BOLT E	F	ROD SIZE
4	250	4550	5	14-5/8	1/2	2	5/8 X 3-1/2	9-5/8	3/4
6	250	9340	7-1/8	16-7/8	1/2	2	5/8 X 3-1/2	11-7/8	3/4
8	250	16080	9-5/16	19-1/8	5/8	2-1/2	5/8 X 3-3/4	14-1/2	3/4
10	250	24180	11-1/2	21-3/8	5/8	2-1/2	3/4 X 3-3/4	16-5/8	1
12	250	34230	13-1/2	25-1/8	5/8	3	7/8 X 4-1/2	19-5/8	1
14	120	22200	15-3/4	28-1/4	3/4	3	7/8 X 4-1/2	22-3/8	1-1/4
16	115	27760	17-7/8	31-3/8	3/4	4	1 X 4-1/2	25-3/8	1-1/4
18	180	23900	20	35-1/8	3/4	4	1-1/4 X 5	28-1/8	1-1/4
20	75	27500	22-1/8	37-3/4	3/4	4-1/2	1-1/4 X 5	30-1/2	1-3/8
24	50	26200	26-3/8	44-1/4	3/4	5	1-1/2 X 5-1/2	36	1-1/2



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SOCKET CLAMP WASHER_____FIG. 274A/B
YOKE_____FIG. 275

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
PIPE SIZE, ROD SIZE,
MATERIAL AND FINISH

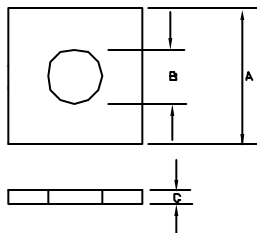


FIG. 274A
FOR USE WITH 4-BOLT
SOCKET CLAMP

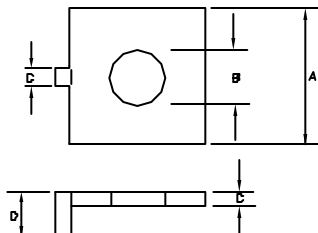


FIG. 274B
FOR USE WITH 2-BOLT
SOCKET CLAMP

DIMENSIONS (INCHES)

ROD SIZE	A	B	C	D
3/4	3	7/8	1/2	1-3/4
1	3-1/2	1-1/8	5/8	-
1-1/8	4-1/2	1-1/4	1	3-1/2
1-1/4	4-1/2	1-3/8	1	3-1/2
1-3/8	4-1/2	1-1/2	1	3-3/4
1-1/2	5	1-5/8	1	4

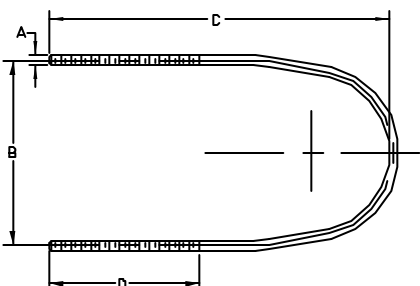


FIG. 275

WEIGHTS-DIMENSIONS(INCHES)

FITTING SIZE	WGT. (APPROX.) LBS. EACH	A	B	C	D
4	6.8	3/4	10-1/8	26	16-1/8
6	7.6	3/4	12-1/8	29-1/2	18
8	8.0	3/4	14-3/8	32	19
10	16.8	1	16-11/16	36	21-1/4
12	21.5	1	19-3/16	40-1/2	24



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SOCKET CLAMP ACCESSORIES:

PLUG ANCHOR STRAP-----FIG. 276

TEE ANCHOR STRAP-----FIG. 277

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

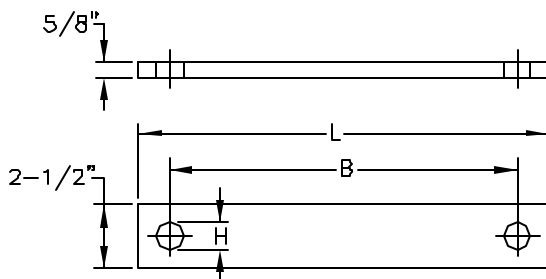
SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
PIPE O.D., ROD SIZE, MATERIAL AND FINISH

FIG. 276

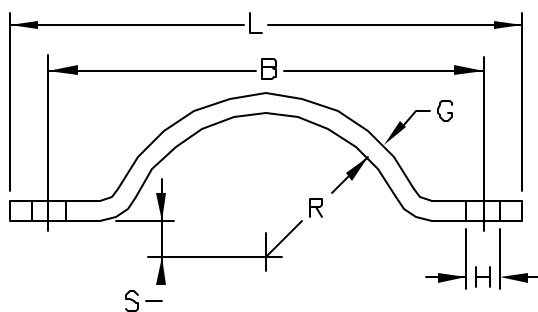


FIG. 277

DIMENSIONS(INCHES)

FITTING SIZE	B	G	HOLE H	L	R	S
4	10-1/8	5/8 X 2-1/2	13/16	12-1/2	2-1/2	3/4
6	12-1/8	5/8 X 2-1/2	13/16	14-1/2	3-9/16	3/4
8	14-3/8	5/8 X 2-1/2	13/16	16-3/4	4-21/32	3/4
10	16-11/16	5/8 X 2-1/2	1-1/16	19-1/16	5-3/4	3/4
12	19-3/16	5/8 X 3	1-1/16	22-5/16	6-3/4	7/8



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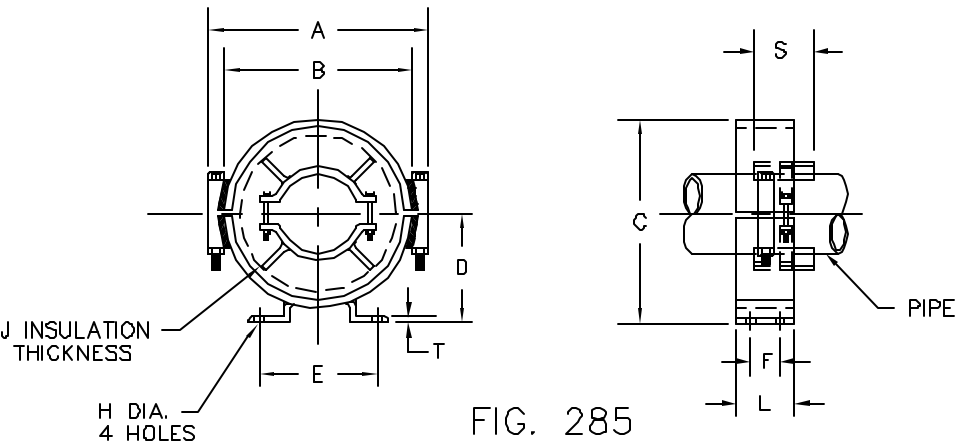


FIG. 285

PIPE ALIGNMENT GUIDE, 1-CLAMP _____ FIG. 285

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER, PIPE SIZE,
GUIDE SIZE, INSULATION THICKNESS, HINGE,
POSITION, MATERIAL AND FINISH

CAUTION:

PIPE MOVEMENT DUE TO EXPANSION MUST NOT
EXCEED THE GUIDE TRAVEL RANGE "S"

DIMENSIONS (INCHES)

NO. SIZE	A	B	C	D	E	FIG. 285		FIG. 286		HOLE	
						F	L	F	L	H	T
1	6-3/16	4-1/2	5-3/8	3-1/8	5	1-1/2	3	2-1/2	4	5/8	1/4
2	7-1/4	5-9/16	6-5/16	3-1/2	6-1/4	1-1/2	3	2-1/2	4	5/8	1/4
3	8-5/16	6-5/8	7-5/16	4	6-3/4	1-1/2	3	2-1/2	4	5/8	1/4
4	10-5/16	8-5/8	9-5/16	5	7-3/8	1-1/2	3	2-1/2	4	5/8	1/4
5	12-7/16	10-3/4	11-5/8	6-1/4	7-3/8	2	4	4	6	5/8	1/4
6	14-7/8	12-3/4	13-5/8	7-1/4	8	2	4	4	6	5/8	1/4
7	16-7/8	14-3/4	15-5/8	8-1/2	9-3/4	2	4	5-1/2	8	3/4	5/16
8	18-7/8	16-3/4	15-7/8	9-1/2	10-1/4	4	6	5-1/2	8	3/4	5/16
9	21-5/8	19	20	10-1/2	11-1/4	4	6	5-1/2	8	3/4	5/16
10	23-5/8	21	22	11-1/2	14-1/8	4	6	5-1/2	8	7/8	3/8
11	25-5/8	23	24	12-1/2	14-3/4	4	6	5-1/2	8	7/8	3/8
12	28-3/8	25-3/4	26-5/8	13-3/4	15-7/8	4	6	5-1/2	8	1	3/8
13	32-1/8	29-1/2	30-1/2	15-3/4	16-3/8	5-1/2	8	5-1/2	8	1	3/8
14	36-1/8	33-1/2	34-1/2	17-3/4	17-1/8	5-1/2	8	5-1/2	8	1	3/8

SEE FIG. 286 PAGE FOR SELECTION CHART

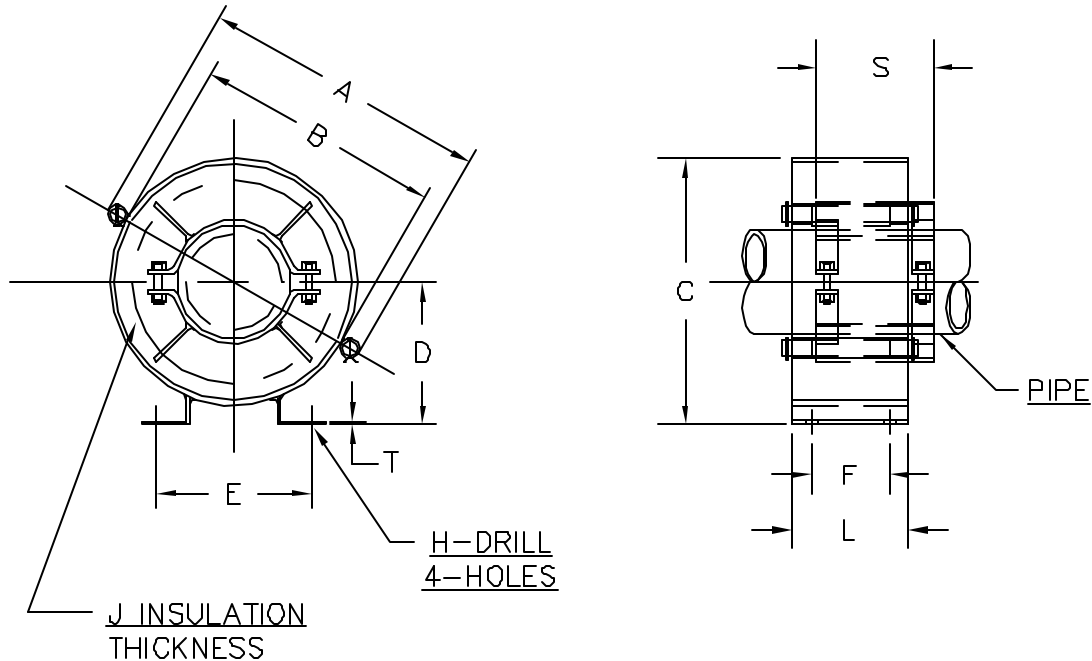


FIG. 286

PIPE ALIGNMENT GUIDE, 2-CLAMPS____FIG. 286

MATERIAL:

CARBON STEEL OR STAINLESS STEEL

ORDERING:

SPECIFY NAME FIGURE NUMBER, PIPE SIZE,
GUIDE SIZE, INSULATION THICKNESS,
HINGE POSITION, MATERIAL AND FINISH

SEE FIG. 285 PAGE
FOR DIMENSIONS

SPIDER LENGTH S = MAXIMUM MOVEMENT		
PIPE SIZE	FIG. 285	FIG. 286
1" TO 6"	4	6
8" TO 16"	6	8
18" TO 24"	8	10

GUIDE SELECTION CHART

GUIDE SIZE NO.	J INSULATION THICKNESS (INCHES)					
	1	1 1/2	2	2 1/2	3	4
PIPE SIZES						
1	1	1	1			
2	1-1/4 THRU 2	1-1/4 THRU 2				
3	2-1/2	2-1/2				
4	3-4	2-1/2 THRU 3-1/2	1-1/4 THRU 2-1/2	1-2	1	
5	5-8	4-5	3-4	2-1/2 THRU 3-1/2	1-1/4 THRU 2-1/2	1-1/4 THRU 2-1/2
6		6	5-6	4-5	3-4	
7		8	8	6	5-6	3-4
8		10	10	8	8	5-6
9		12	12	10	10	8
10			14	12-14	12	10
11			16	16	14	12
12					16-18	14-16
13					20	18-20
14					24	24



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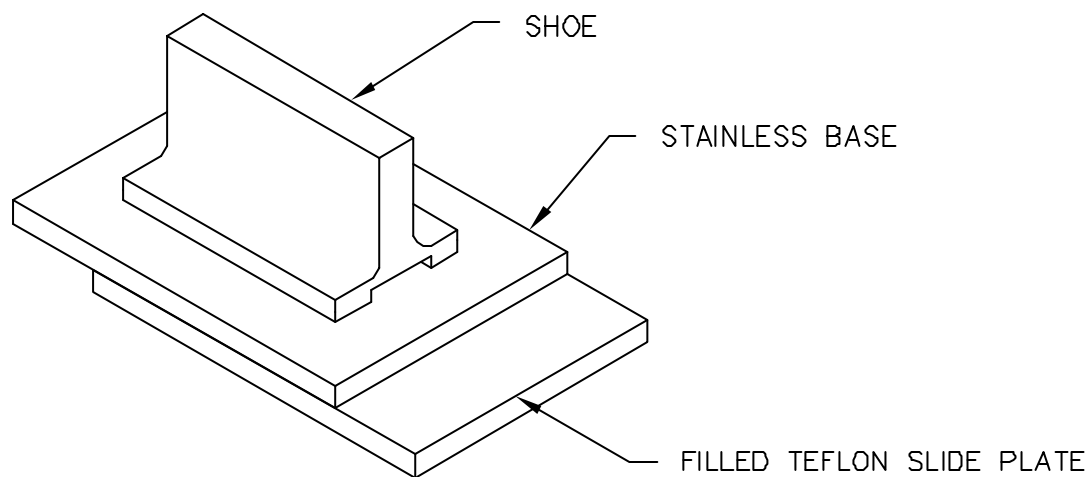


FIG. 287

TEE SHOE WITH TEFLON SLIDE PLATE_____FIG. 287

ORDERING:

DETAIL DRAWING IS REQUIRED FROM CUSTOMER
FOR CUSTOM FABRICATION

SPRING CUSHION SUPPORT_____FIG. 288

MATERIAL:

STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,
SPRING SIZE

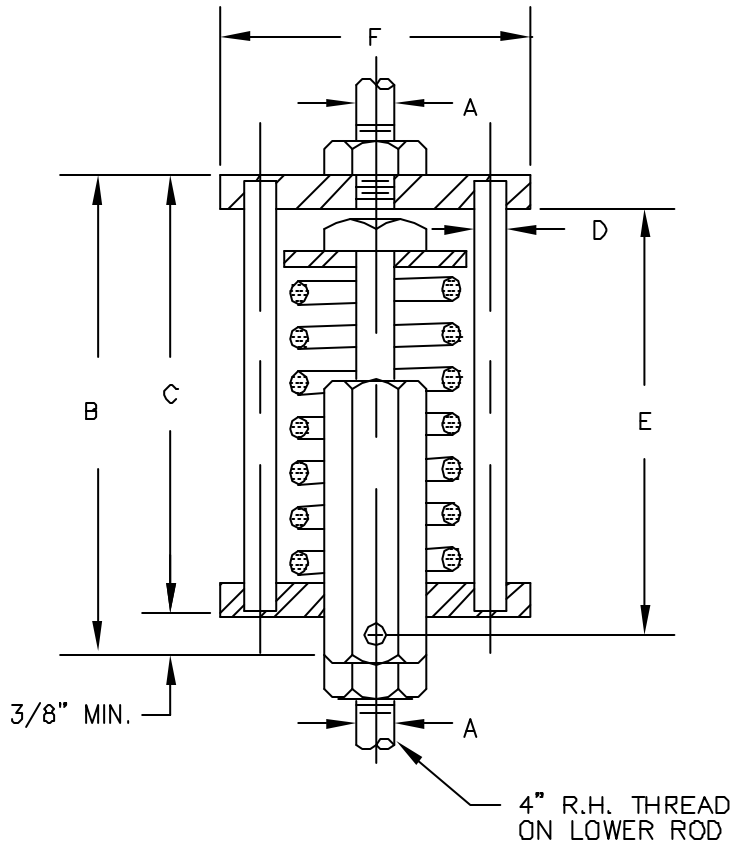


FIG. 288

DIMENSIONS (INCHES)

SPRING SIZE NO.	ROD A	B		C	D	E	F	MAXIMUM DEFLECTION	MAXIMUM LOAD (LBS.)	SPRING RATE LBS. PER IN.	WEIGHT LBS. PER 100
		MIN.	MAX.								
1	3/8	4-1/2	6-1/2	4-1/8	1/4	3-3/4	2-3/8	2	52	26	160
2	3/8	4-1/2	6-1/4	4-1/8	5/16	3-3/4	3-1/8	1-3/4	115	66	238
3	1/2	5-7/8	7-3/4	5-1/2	3/8	5	2-3/4	1-7/8	163	87	287
4	1/2	5-7/8	7-5/8	5-1/2	3/8	5	3-1/4	1-3/4	266	152	350
5	5/8	6-3/4	8-3/4	6-3/8	1/2	5-3/4	4-1/8	2	400	200	680
6	3/4	8-3/8	10-7/8	8	1/2	7-3/8	4-5/8	2-1/2	600	240	982



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MATERIAL:

STEEL

ORDERING:

SPECIFY NAME, FIGURE NUMBER,

ROD SIZE, IF USED WITH FIG. 77

SINGLE PIPE ROLL, PIPE ROLL MUST

BE ORDERED SEPARATELY

NOTE:

THE RETAINERS ARE CORED TO THE
DIMENSIONS AS SHOWN, BUT CAN BE
DRILLED OR REAMED LARGER TO
SATISFY THE HANGER ROD REQUIRED.

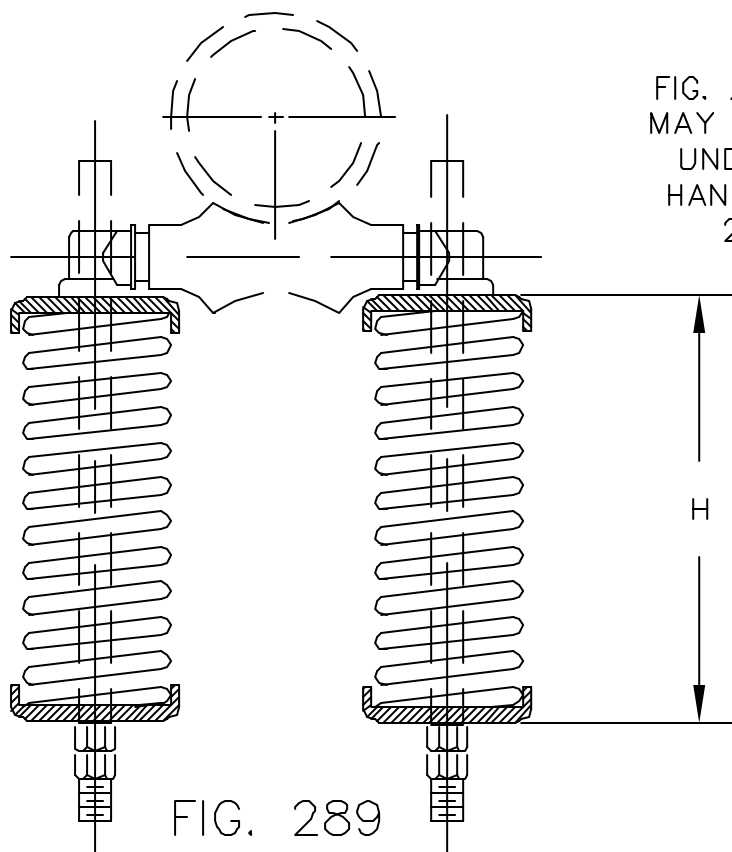


FIG. 289 SPRINGS
MAY ALSO BE USED
UNDER TRAPEZE
HANGERS FIG. 27,
28, OR 31.

FIG. 289

DIMENSIONS (INCHES)

SPRING NO.	SPRING RATE POUNDS PER INCH PER SPRING	MAXIMUM LOAD AT 1-1/4 INCH DEFLECTION TWO SPRINGS	CUP DIAMETER	SPRING HEIGHT H	WEIGHT PER 100	MIN ROD SIZE
A	26	65	2-3/8	3-1/4	110	3/8
B	66	165	2-3/8	3-1/4	142	3/8
C	87	218	2-3/8	4-1/4	156	3/8
D	152	380	2-3/8	4-1/4	218	3/8
1	214	535	2-3/8	6-1/4	408	3/8
2	600	1500	4	5-3/4	1074	1/2
3	1200	3000	4-1/2	8-7/8	2600	7/8



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