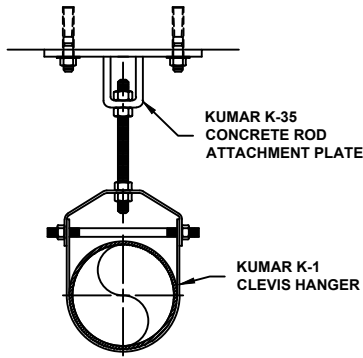


PRODUCTS WITH INTEGRITY



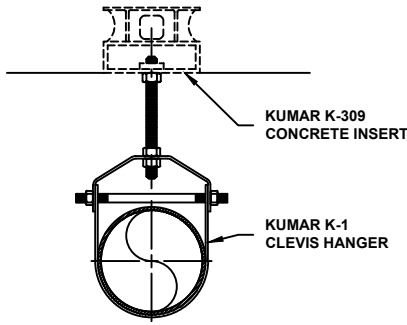
KUMAR

PIPE HANGERS & SUPPORT SYSTEMS



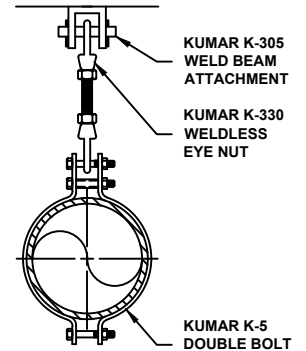
CLEVIS HANGER W/ ATTACHMENT

KUMAR
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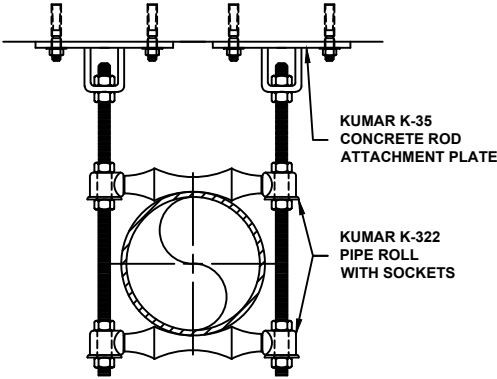
CLEVIS HANGER W/ CONC. EMBED

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



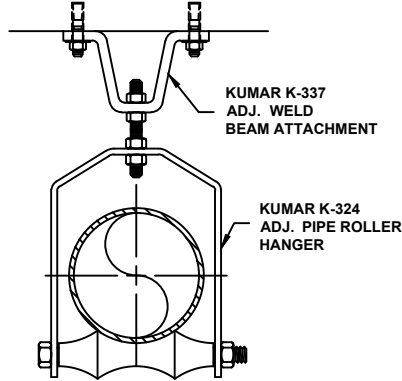
DOUBLE BOLT CLAMP HANGER

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



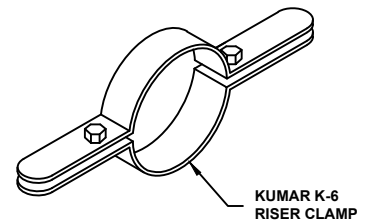
DOUBLE PIPE ROLLER HANGER

KUMAR
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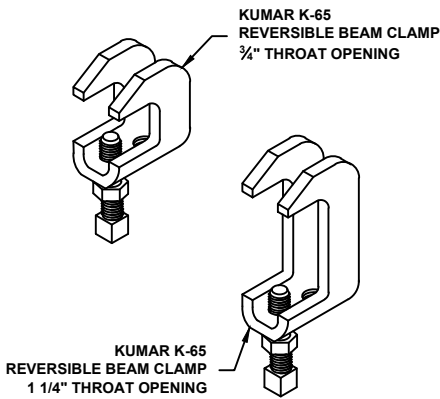
PIPE ROLLER HANGER

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



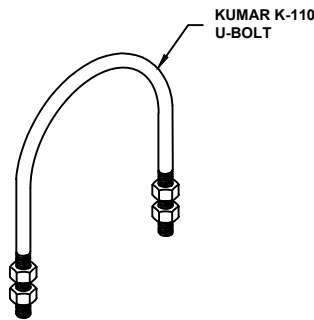
RISER CLAMP

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



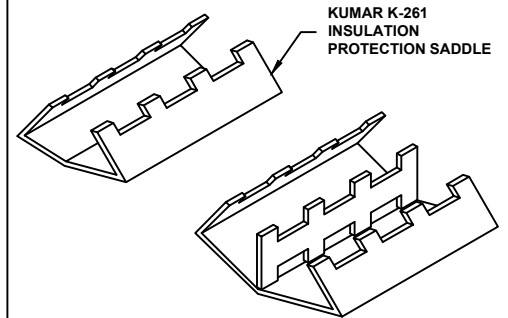
REVERSIBLE BEAM CLAMPS

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



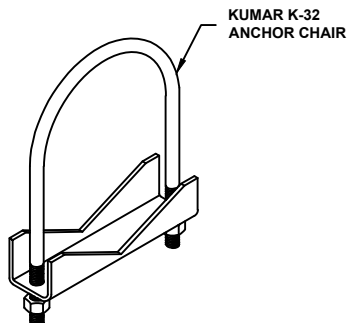
U-BOLT FOR PIPE

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



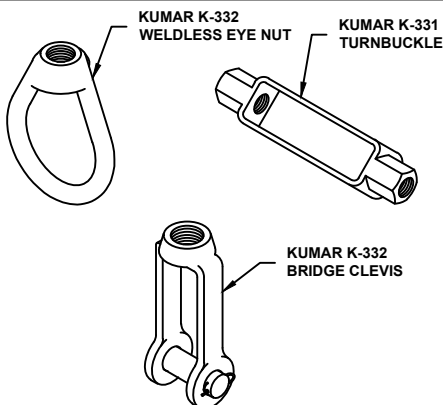
INSULATION PROTECTION SADDLE

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



ANCHOR CHAIR

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



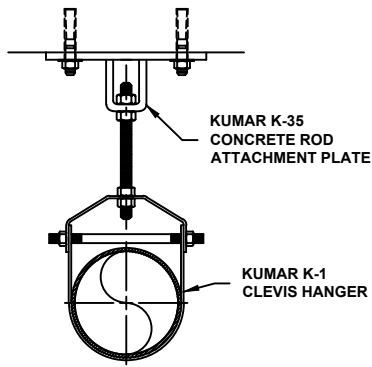
THREADED ACCESSORIES

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



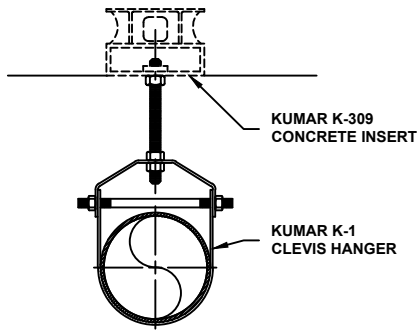
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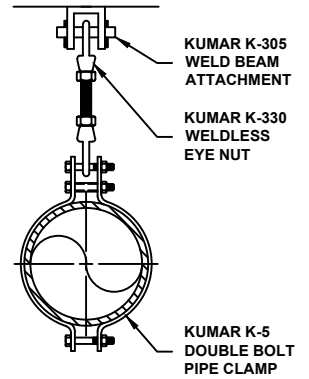
CLEVIS HANGER W/ ATTACHMENT

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



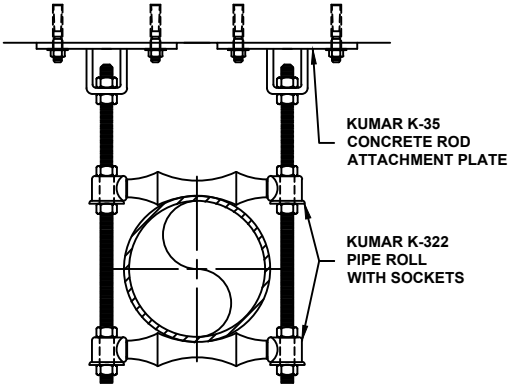
CLEVIS HANGER W/ CONC. EMBED

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



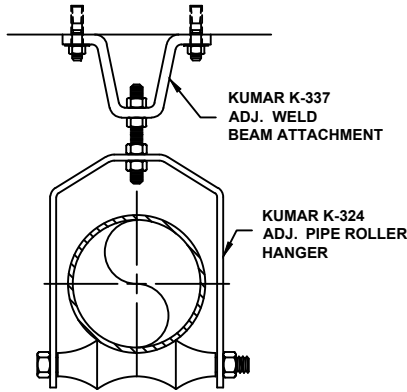
DOUBLE BOLT CLAMP HANGER

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



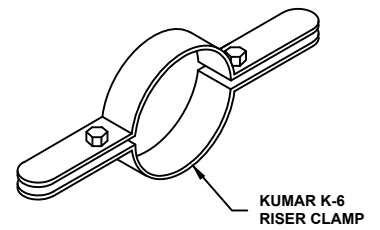
DOUBLE PIPE ROLLER HANGER

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



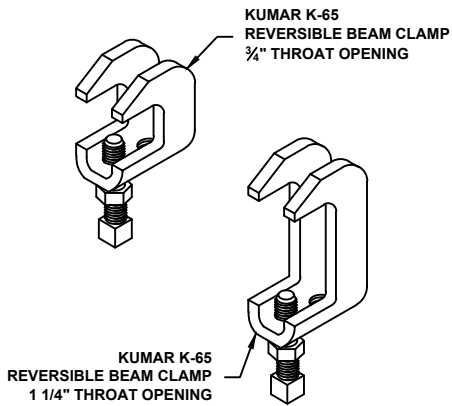
PIPE ROLLER HANGER

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



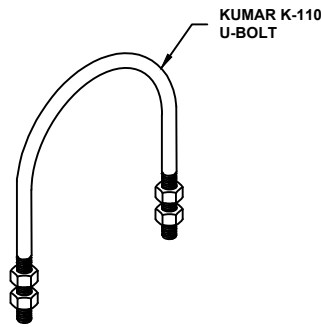
RISER CLAMP

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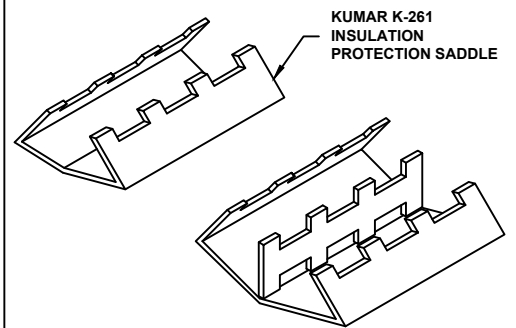
REVERSIBLE BEAM CLAMPS

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



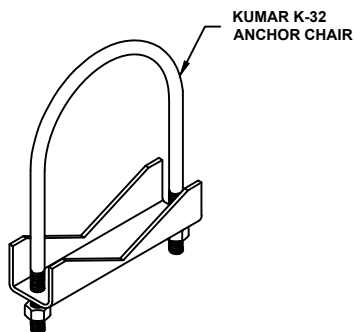
U-BOLT FOR PIPE

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



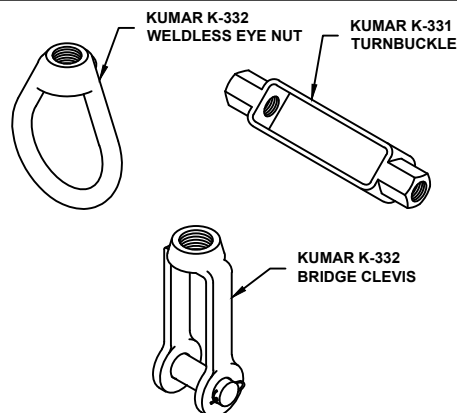
INSULATION PROTECTION SADDLE

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



ANCHOR CHAIR

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



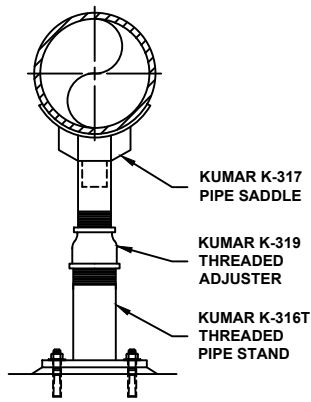
THREADED ACCESSORIES

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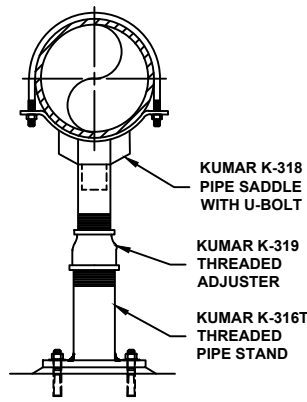
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KUMAR K-319
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KUMAR K-316T
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PIPE STAND

ADJUSTABLE PIPE SUPPORT

KUMAR
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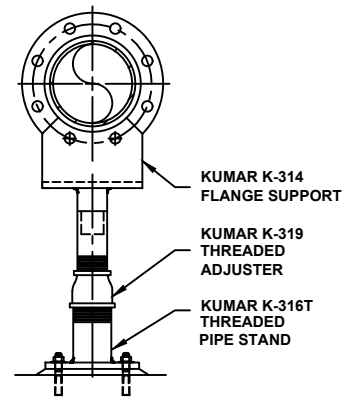
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KUMAR K-319
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ADJUSTABLE PIPE SUPPORT

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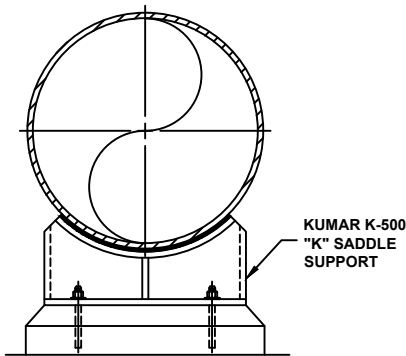
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FLANGE SUPPORT

KUMAR K-319
THREADED
ADJUSTER

KUMAR K-316T
THREADED
PIPE STAND

ADJUSTABLE FLANGE SUPPORT

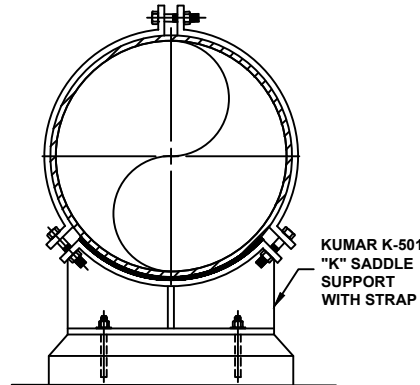
KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



KUMAR K-500
"K" SADDLE
SUPPORT

PIPE SADDLE SUPPORT

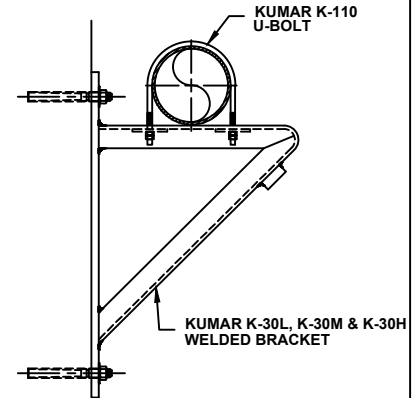
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PIPE HANGERS & SUPPORT SYSTEMS



KUMAR K-501
"K" SADDLE
SUPPORT
WITH STRAP

PIPE SADDLE SUPPORT W/ STRAP

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS

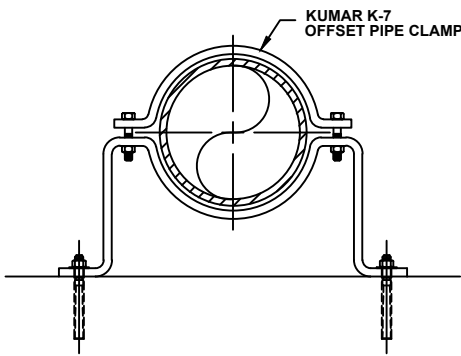


KUMAR K-110
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KUMAR K-30L, K-30M & K-30H
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WELDED BRACKET SUPPORT

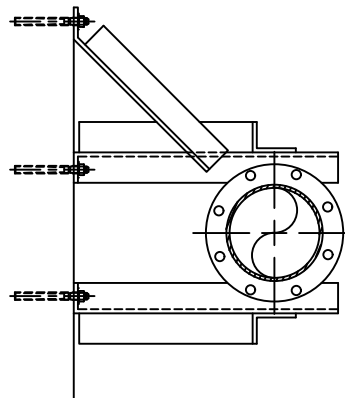
KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



KUMAR K-7
OFFSET PIPE CLAMP

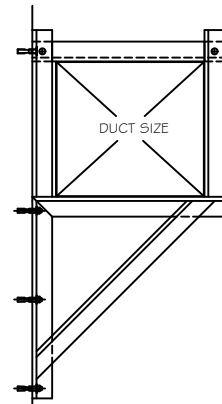
OFFSET PIPE CLAMP

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FLANGE RISER BRACKET SUPPORT

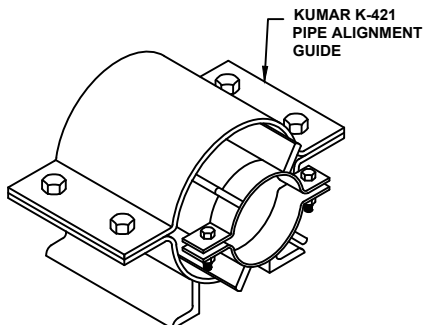
KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



DUCT SIZE

AIR CONDITIONING DUCT SUPPORT

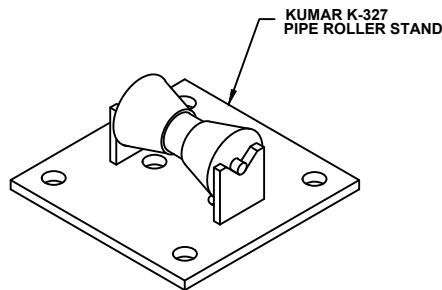
KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



KUMAR K-421
PIPE ALIGNMENT
GUIDE

PIPE ALIGNMENT GUIDE

KUMAR
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KUMAR K-327
PIPE ROLLER STAND

PIPE ROLLER STAND

KUMAR
PIPE HANGERS & SUPPORT SYSTEMS



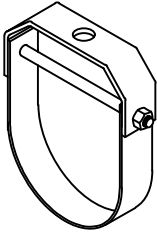
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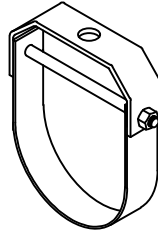
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PIPE HANGERS & SUPPORT SYSTEMS

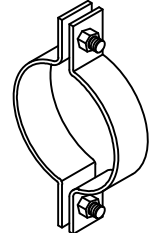
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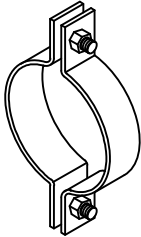
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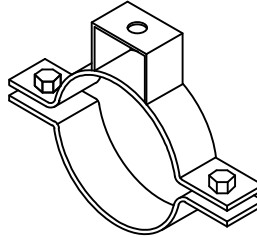
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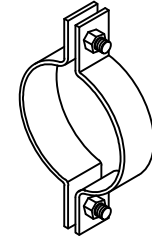
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STANDARD PIPE CLAMP
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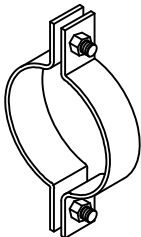
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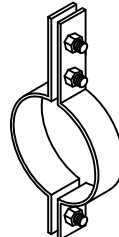
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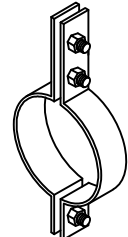
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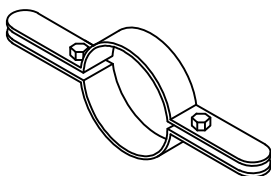
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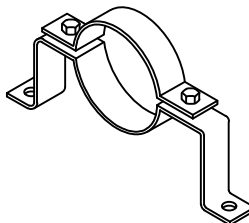
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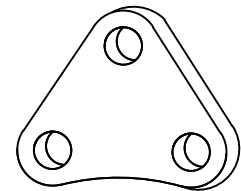
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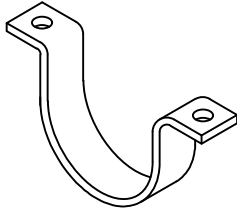


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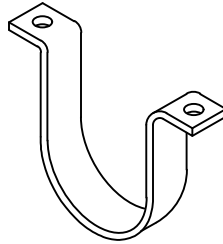
KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

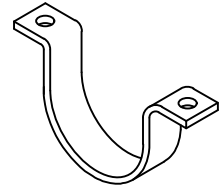
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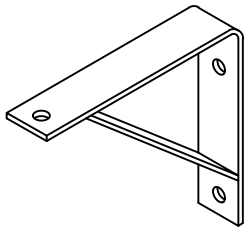
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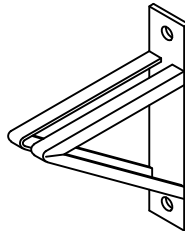
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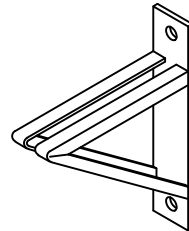
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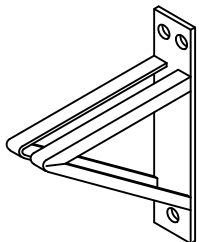
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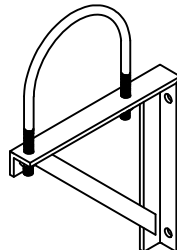
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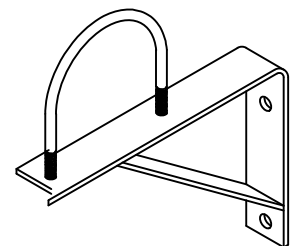
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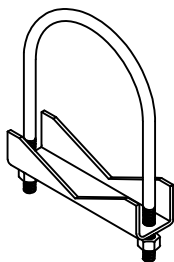
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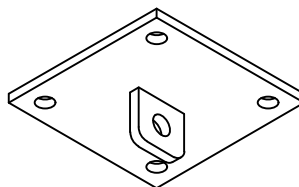
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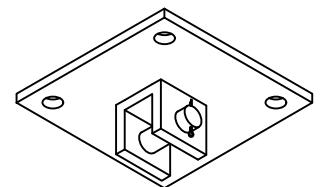
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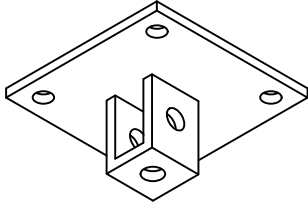


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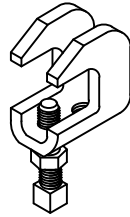
KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

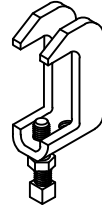
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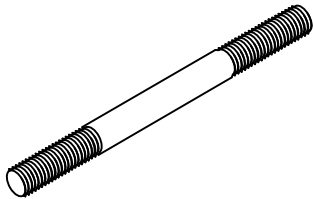
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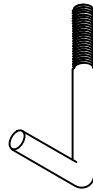
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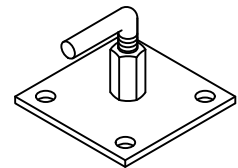
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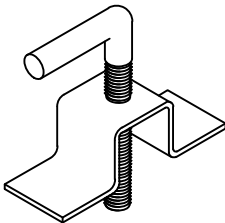
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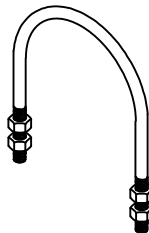
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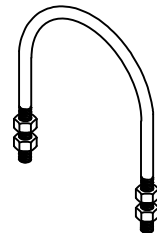
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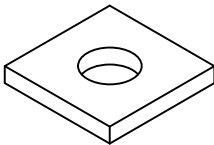
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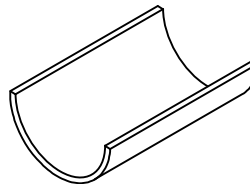
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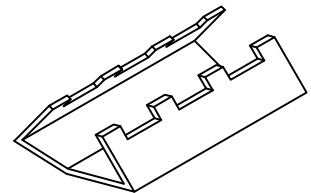
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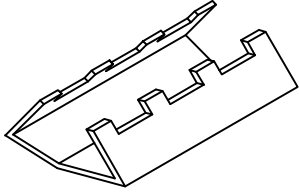


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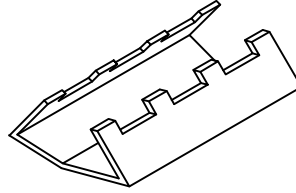
KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

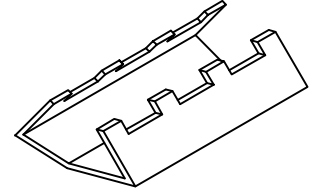
PICTORIAL INDEX



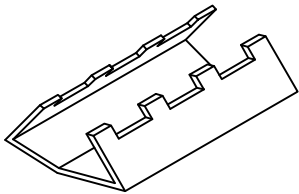
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1 1/2" INSUL. PROTECTION SADDLE
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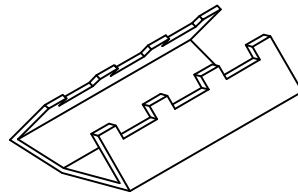
K-262
2" INSUL. PROTECTION SADDLE
PAGE 38



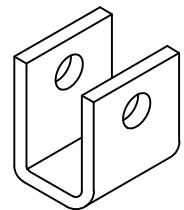
K-263
2 1/2" INSUL. PROTECTION SADDLE
PAGE 39



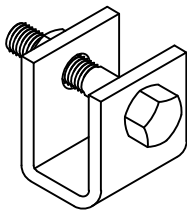
K-264
3" INSUL. PROTECTION SADDLE
PAGE 40



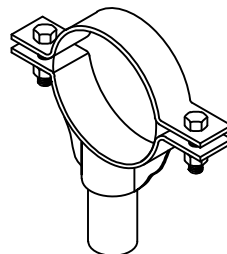
K-265
4" INSUL. PROTECTION SADDLE
PAGE 41



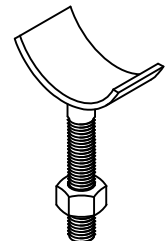
K-304
WELD BEAM ATTACHMENT
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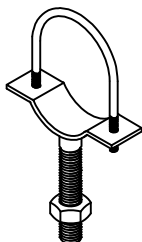
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WELD BEAM ATTACHMENT W/ BOLT & NUT
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K-311
PIPE SADDLE W/ CLAMP
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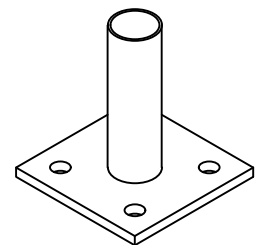
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ADJUSTABLE PIPE SADDLE
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K-313
ADJUSTABLE PIPE SADDLE W/ U-BOLT
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K-314
FLANGE SUPPORT
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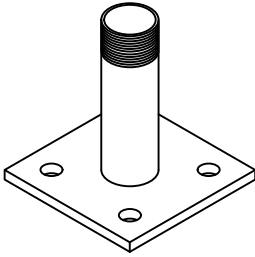


K-316
PIPE STAND
PAGE 48

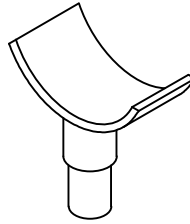
KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

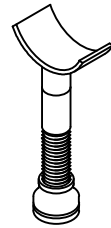
PICTORIAL INDEX



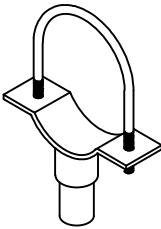
K-316T
THREADED PIPE STAND
PAGE 49



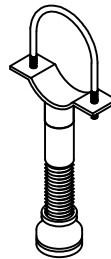
K-317
PIPE SADDLE
PAGE 50



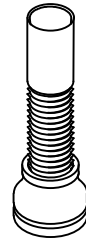
K-317A
PIPE SADDLE & THREADED PIPE ADJUSTER
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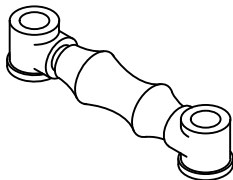
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PIPE SADDLE W/ U-BOLT
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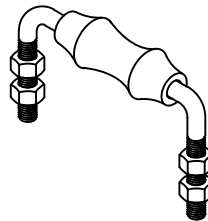
K-318A
PIPE SADDLE W/ U-BOLT & THREADED PIPE ADJUSTER
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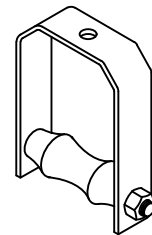
K-319
THREADED PIPE W/ ADJUSTER
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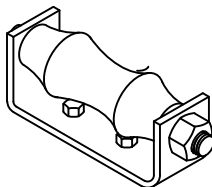
K-322
PIPE ROLL W/ SOCKETS
PAGE 55



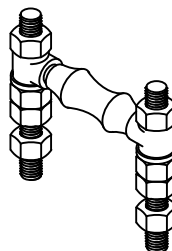
K-323
ADJUSTABLE SUPPORT ROLLER
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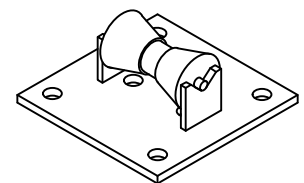
K-324
ADJUSTABLE PIPE ROLLER HANGER
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K-325
PIPE ROLLER CHAIR
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K-326
ADJUSTABLE TWO ROD PIPE ROLLER
PAGE 59

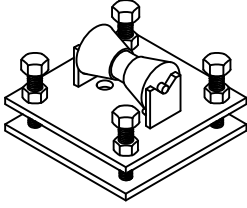


K-327
PIPE ROLLER STAND
PAGE 60

KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

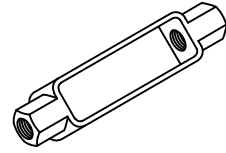
PICTORIAL INDEX



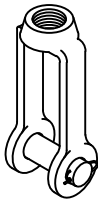
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ADJUSTABLE PIPE ROLLER STAND
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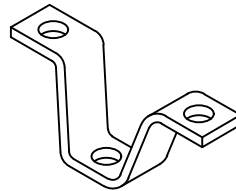
K-330
WELDLESS EYE NUT
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K-331
TURNBUCKLE
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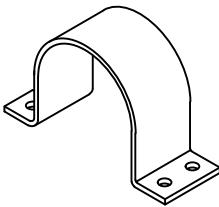
K-332
BRIDGE CLEVIS
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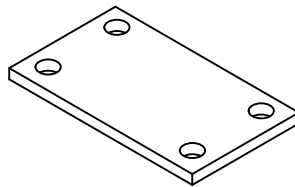
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ADJUSTABLE WELD BEAM ATTACHMENT
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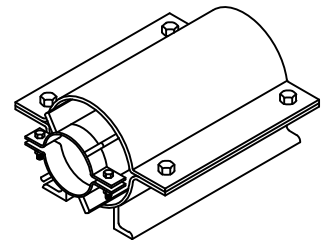
K-343
WELDING LUG
PAGE 66



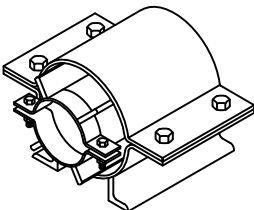
K-405
ANCHOR HOLD DOWN CLAMP
PAGE 67



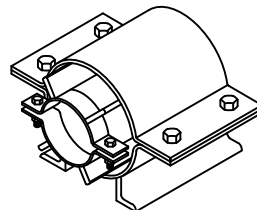
K-406
ANCHOR HOLD DOWN PLATE
PAGE 68



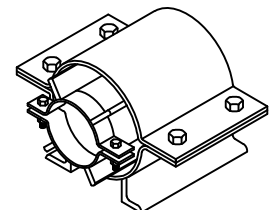
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LONG TRANSVERSE
PIPE ALIGNMENT GUIDE
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PIPE ALIGNMENT GUIDE
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LIGHT WEIGHT PIPE ALIGNMENT GUIDE
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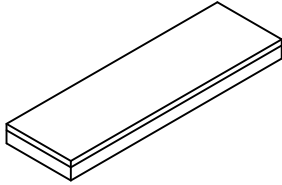


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PIPE ALIGNMENT GUIDE
FOR COPPER PIPE
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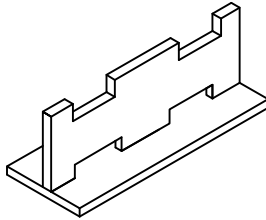
KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

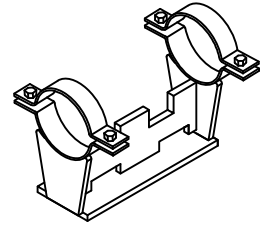
PICTORIAL INDEX



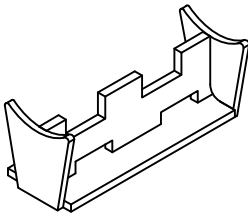
K-425
PTFE BEARING PAD
PAGE 73



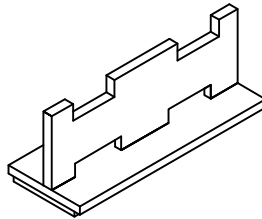
K-426
T-PIPE ANCHOR
PAGE 74



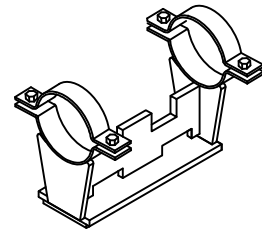
K-426C
T-PIPE ANCHOR W/ CLAMP
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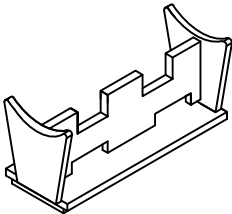
K-426G
T-PIPE ANCHOR W/ GUSSET
PAGE 76



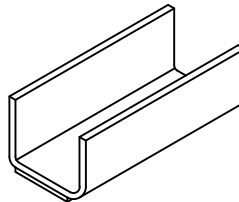
K-427
T-PIPE SLIDE
PAGE 77



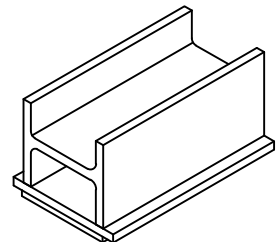
K-427C
T-PIPE SLIDE W/ CLAMP
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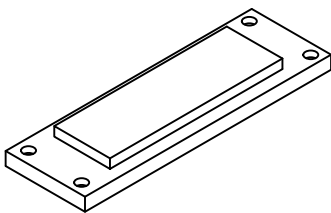
K-427G
T-PIPE SLIDE W/ GUSSET
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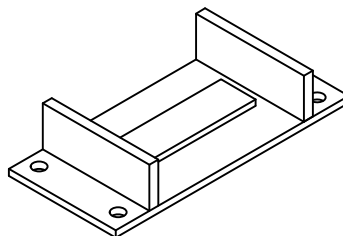
K-428
U-PIPE SLIDE
PAGE 80



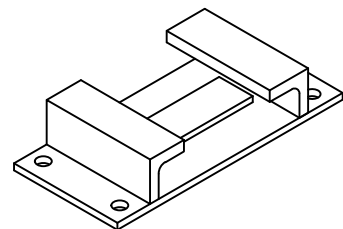
K-429
H-FRAME PIPE SLIDE
PAGE 81



K-430
SLIDE PLATE
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K-431
GUIDE SLIDE PLATE
PAGE 83

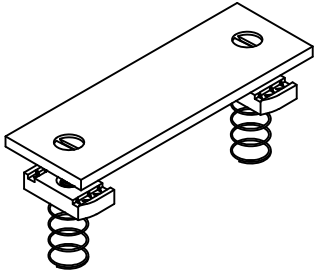


K-432
GUIDE SLIDE PLATE W/ ANGLE
PAGE 84

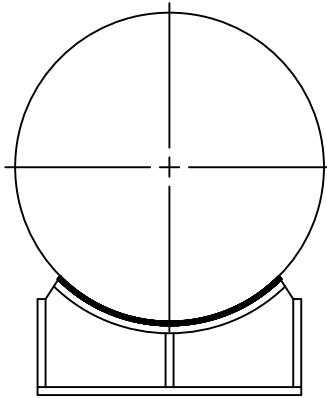
KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

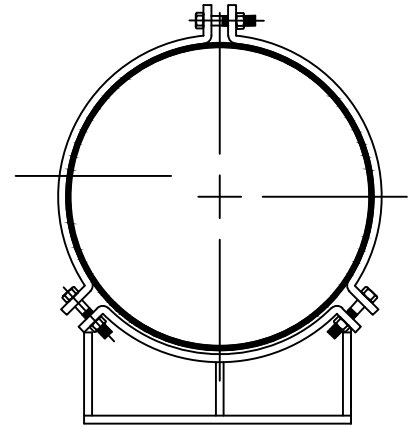
PICTORIAL INDEX



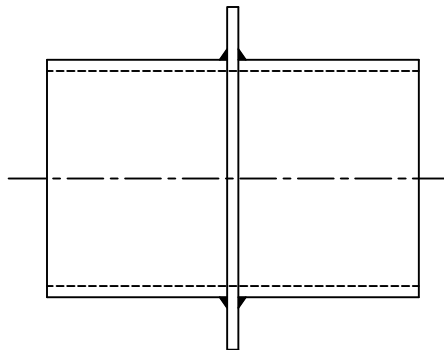
K-433
PTFE SLIDE PLATE
FOR NU-STRUT CHANNEL
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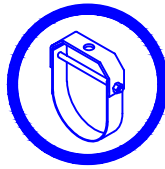
K-500
"K" SADDLE SUPPORT
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K-501
"K" SADDLE SUPPORT
W/ STRAP
PAGE 87



K-502
STEEL WALL SLEEVE
PAGE 88



K-1

STEEL PIPE CLEVIS HANGER

SIZE RANGE - 1/2" THRU 36" PIPE SIZE

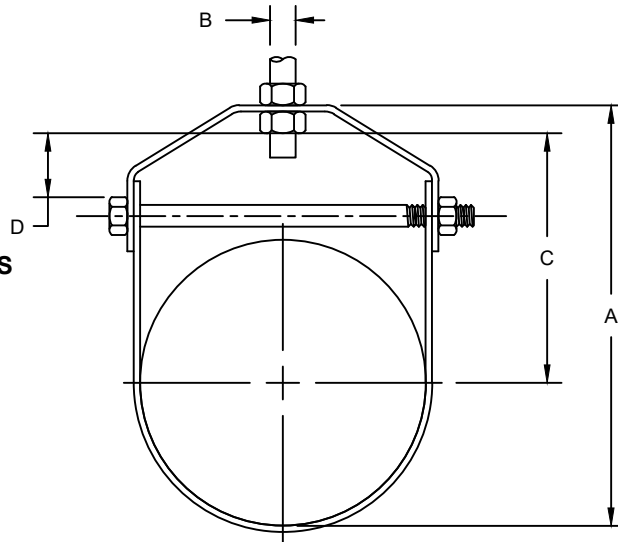
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - RECOMMENDED FOR THE SUSPENSION OF NON-INSULATED, STATIONARY PIPE LINES.

MAXIMUM TEMPERATURE - 650°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	D	CROSS BOLT	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
1/2	2-1/16	3/8	1-3/16	1	1/4	610	36
3/4	2-7/8	3/8	1-7/8	1	1/4	610	38
1	3-1/4	3/8	2-1/16	1	1/4	610	42
1-1/4	3-9/16	3/8	2-1/4	1	1/4	610	46
1-1/2	3-7/8	3/8	2-3/8	1	1/4	610	49
2	4-7/16	3/8	2-3/4	1	1/4	610	55
2-1/2	5-5/16	1/2	3-1/4	1	3/8	1130	124
3	5-15/16	1/2	3-1/2	1-1/4	3/8	1130	140
3-1/2	6-7/16	1/2	3-3/4	1-1/4	3/8	1130	152
4	7-3/8	5/8	4-1/4	1-1/2	3/8	1430	190
5	8-15/16	5/8	5-1/4	1-1/2	1/2	1430	235
6	9-13/16	3/4	5-1/2	1-1/2	1/2	1940	317
8	12-9/16	7/8	7-1/8	2	5/8	2000	428
10	16-1/4	7/8	9-5/8	3-1/4	3/4	3600	918
12	19-1/4	7/8	11-5/8	3-1/2	3/4	3800	1143
14	20-13/16	1	12-5/16	3-13/16	7/8	4200	1543
16	21-15/16	1	12-7/16	3-3/4	1	4600	1925
18	24-7/16	1	13-15/16	3-7/8	1-1/8	4800	2243
20	26-5/16	1-1/4	14-7/16	4	1-1/4	4800	4161
24	31-3/8	1-1/4	17-1/2	4-1/4	1-1/4	4800	4835
30	38-7/8	1-1/4	21-7/8	5	1-1/4	6000	6940
36	48	1-1/2	27-3/4	5-3/4	1-1/2	9500	18103

K-1DI

DUCTILE IRON PIPE CLEVIS HANGER

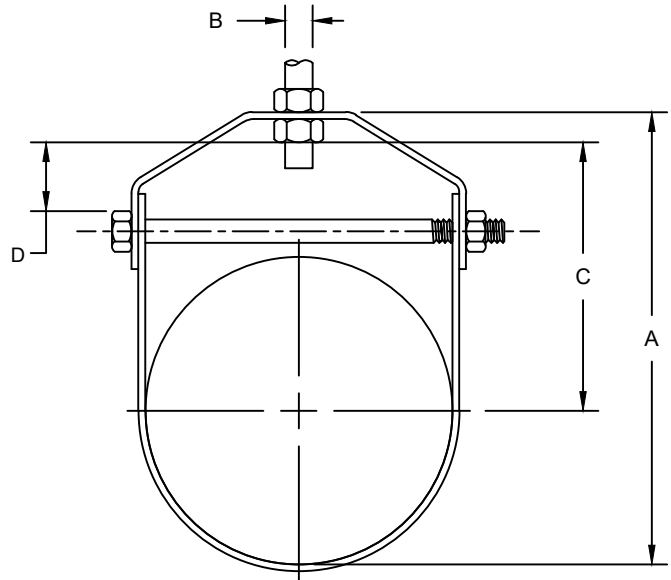
SIZE RANGE - 4" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

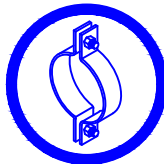
FUNCTION - FOR THE SUSPENSION OF FLANGED OR BELL AND SPIGOT A.W.W.A. CAST IRON PIPE. THE O.D. OF THE CAST IRON PIPE IS SHOWN IN THE DATA TABLE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	PIPE O.D.	A	B	C	D	CROSS BOLT	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
4	4.80	8	5/8	4-3/4	1-5/8	3/8	1430	213
6	6.90	10-3/16	3/4	5-3/4	1-3/4	1/2	1940	430
8	9.05	12-5/8	7/8	7	1-3/4	5/8	2000	664
10	11.05	15-7/16	7/8	8-5/8	2-1/4	3/4	3600	940
12	13.20	16-7/8	7/8	9	2-1/4	3/4	3800	1217
14	15.30	20-7/8	1	11-3/4	2-1/2	7/8	4200	1533
16	17.40	23-11/16	1	13-1/2	3-3/8	1	4600	2223
18	19.50	26-1/16	1	14-7/8	3-3/8	1-1/8	4800	2441
20	21.60	29-1/16	1-1/4	16-3/8	3-3/4	1-1/4	4800	4182
24	25.80	33-3/8	1-1/4	18-5/8	4	1-1/4	4800	5460



K-4

STANDARD PIPE CLAMP

SIZE RANGE - 1/2" THRU 30" PIPE SIZE

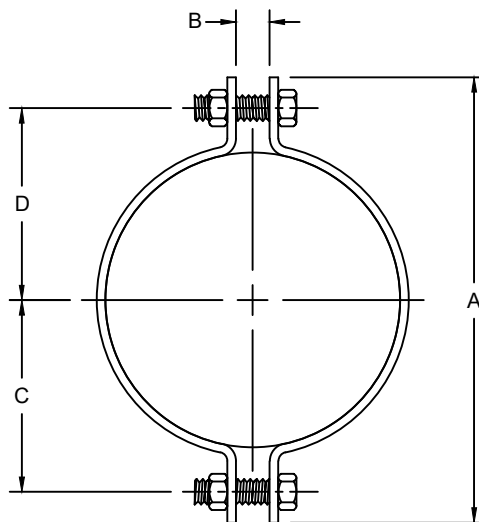
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - TO CARRY PIPING WHERE LITTLE OR NO INSULATION IS REQUIRED. FOR HEAVIER LOADS, SEE K-4H

MAXIMUM TEMPERATURE - 750°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	D	BOLT SIZE	MAX REC. LOADS LBS FOR SERVICE TEMP.		APPROX. WEIGHT PER 100
						650° F	750° F	
1/2	2-13/16	1/2	1-1/8	1-1/8	5/16	500	445	29
3/4	3	1/2	1-1/8	1-1/8	5/16	500	445	31
1	3-9/16	1/2	1-1/4	1-9/16	5/16	500	445	35
1-1/4	4-3/16	1/2	1-3/8	2	5/16	500	445	40
1-1/2	4-1/4	1/2	1-1/2	2	5/16	800	715	42
2	5	1/2	2	2-1/4	3/8	1040	930	93
2-1/2	5-7/8	5/8	2-1/4	2-1/4	1/2	1040	930	126
3	6-3/4	5/8	3	3	1/2	1040	930	141
3-1/2	7-1/4	5/8	3-5/16	3-5/16	1/2	1040	930	154
4	7-3/4	3/4	3-3/8	3-3/8	5/8	1040	930	229
5	8-7/8	3/4	4-3/8	4-3/8	5/8	1040	930	261
6	11-1/4	7/8	4-7/8	4-7/8	3/4	1615	1440	537
8	13-1/8	1	5-13/16	5-13/16	3/4	1615	1440	625
10	16-1/2	1	7-1/4	7-1/4	7/8	2490	2220	1378
12	18-1/2	1	8-1/4	8-1/4	7/8	2490	2220	1574
14	20	1-1/8	9	9	7/8	2490	2220	2103
16	23	1-1/8	10-1/4	10-1/4	7/8	2490	2220	2314
18	25-7/8	1-1/4	11-1/2	11-1/2	1	3060	2730	3276
20	28	1-3/8	12-1/2	12-1/2	1-1/8	3060	2730	3863
24	33-1/2	1-5/8	15-1/4	15-1/4	1-1/4	3060	2730	5222
30	41-7/8	2	19	19	1-3/4	3500	3360	10511

K-4A

PIPE CLAMP FOR SWAY BRACING

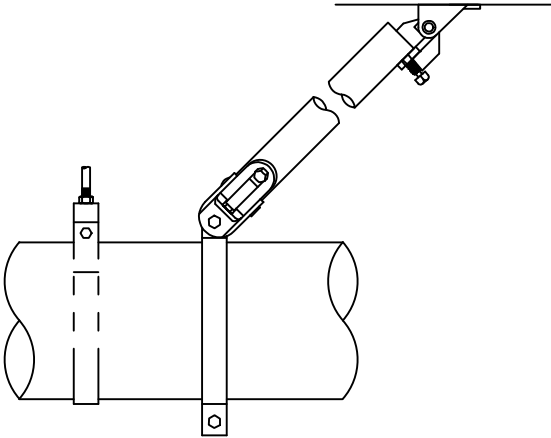
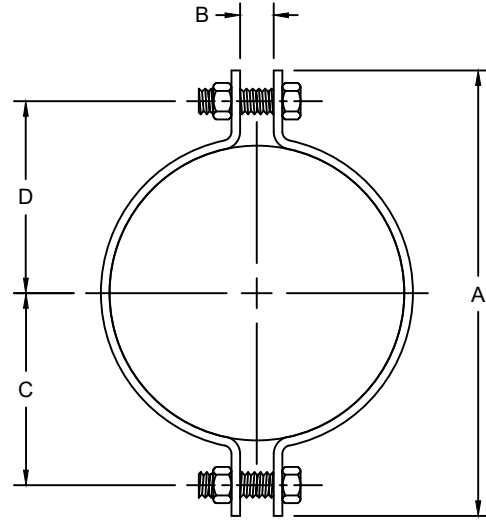
SIZE RANGE - 4" THRU 8" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

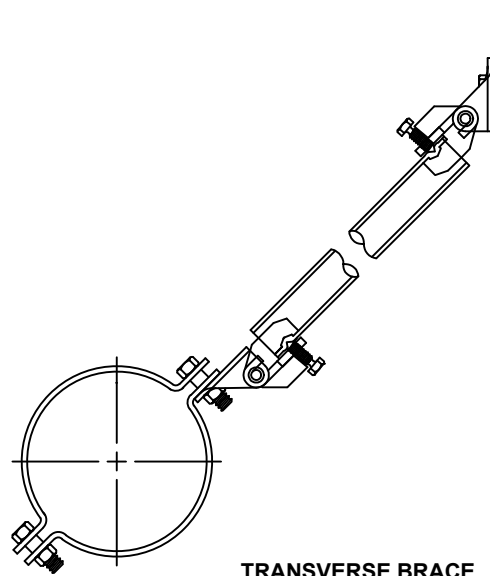
FUNCTION - FOR BRACING PIPE AGAINST SWAY AND SEISMIC DISTURBANCE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

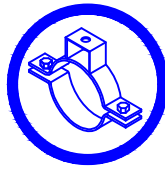


LONGITUDINAL BRACE



TRANSVERSE BRACE

PIPE SIZE	A	B	C	D	BOLT SIZE	MAX. HORIZONTAL DESIGN LOAD	APPROX. WEIGHT PER 100
4	8-1/2	9/16	3-3/8	3-11/16	1/2	2015	221
5	9-3/4	9/16	3-7/8	4-3/8	1/2	2015	253
6	11-1/2	5/8	5	5-1/8	1/2	2015	513
8	13-1/4	3/4	6-11/16	6-1/8	1/2	2015	601



K-4B

PIPE CLAMP FOR SWAY BRACING

SIZE RANGE - 3/4" THRU 12" PIPE SIZE

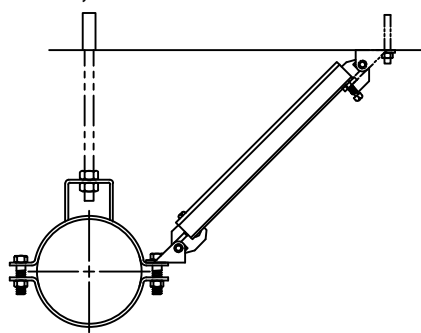
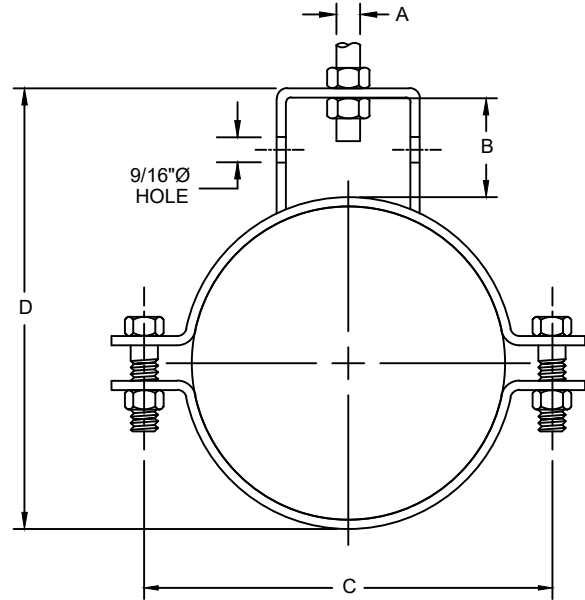
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - FOR BRACING PIPE AGAINST SWAY AND SEISMIC DISTURBANCE.

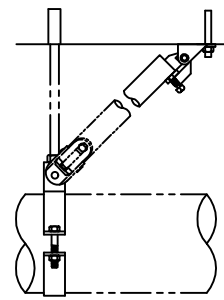
FEATURES - THIS PRODUCT'S DESIGN INCORPORATES CONCENTRIC LOADING OF THE "BRACE PIPE" CONNECTION COMPONENTS AND FASTENERS WHICH IS CRITICAL TO THE PERFORMANCE OF SEISMIC BRACING ASSEMBLIES.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



TRANSVERSE BRACE



LONGITUDINAL BRACE

PIPE SIZE	A	B	C	D	BOLT SIZE	MAX. DESIGN LOAD LBS.	APPROX. WEIGHT PER 100
3/4	3/8	1	2-7/8	2-5/8	5/16	330	56
1	3/8	1	3-1/4	2-15/16	5/16	330	60
1-1/4	3/8	1	3-9/16	3-1/4	5/16	330	74
1-1/2	3/8	1	3-13/16	3-7/16	5/16	330	79
2	3/8	1-1/2	5-1/8	4-5/8	5/16	440	156
2-1/2	1/2	1-3/4	5-5/8	5-3/8	3/8	440	176
3	1/2	1-7/8	6-3/4	6-1/8	3/8	660	198
3-1/2	1/2	2	7-1/4	6-3/4	3/8	660	219
4	5/8	2	8-5/8	7-1/4	1/2	800	288
5	5/8	2	9-7/8	8-5/16	5/8	980	390
6	3/4	2-1/8	10-15/16	9-1/2	5/8	980	448
8	7/8	2-1/8	13-7/16	11-1/2	3/4	1200	691
10	7/8	2-1/8	18-1/2	14-3/8	7/8	-	-
12	7/8	2-1/8	20-1/2	16-3/8	7/8	-	-

K-4 DI

DUCTILE IRON PIPE CLAMP

SIZE RANGE - 4" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

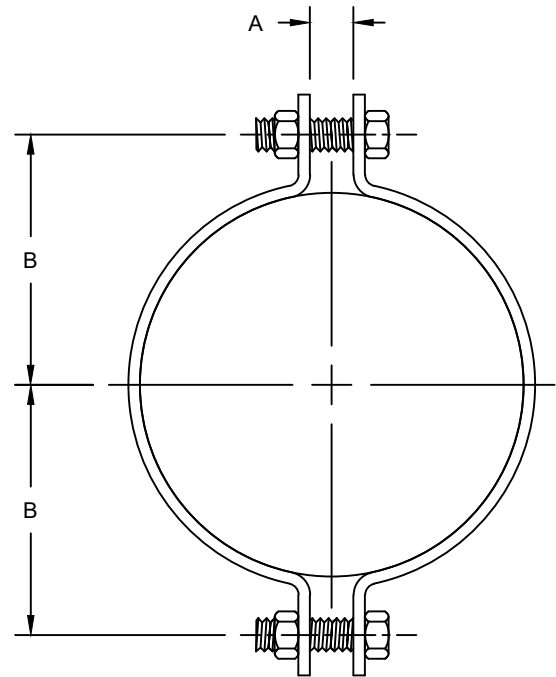
FUNCTION - FOR THE SUSPENSION OF FLANGED OR BELL AND SPIGOT A.W.W.A. CAST IRON PIPE. HANGER IS DESIGNED TO CLAMP TIGHTLY ON THE SUSPENDED PIPE.

NORMALLY IT IS USED WITH K-330 WELDLESS EYE NUT

MAXIMUM TEMPERATURE - 650°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	PIPE O.D.	A	B	BOLT SIZE	MAXIMUM REC. LOAD LBS	APPROX. WEIGHT PER 100
4	4.80	1-1/8	4-1/16	5/8	1400	860
6	6.90	1-1/8	5-1/16	5/8	1400	1060
8	9.05	1-1/8	6-3/16	5/8	1400	1230
10	11.10	1-1/8	7-1/4	5/8	1400	1430
12	13.20	1-1/8	8-5/16	5/8	1400	1630
14	15.30	1-3/4	9-7/8	3/4	2000	2300
16	17.40	1-3/4	11-5/16	7/8	2500	3725
18	19.50	1-7/8	12-9/16	1	3000	4200
20	21.60	2	13-5/8	1	3100	4575
24	25.80	2	16-3/16	1-1/4	4500	6400

K-4H

HEAVY DUTY PIPE CLAMP

SIZE RANGE - 3" THRU 24" PIPE SIZE

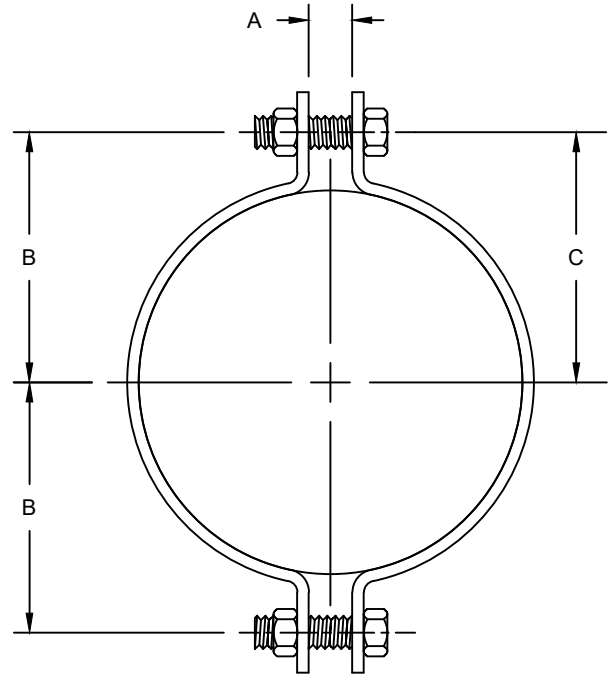
MATERIAL -CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - TO CARRY A HEAVIER LOAD THAN STANDARD CLAMP WHERE LITTLE OR NO INSULATION IS REQUIRED

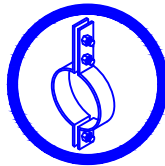
MAXIMUM TEMPERATURE - 750°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	BOLT SIZE	MAX REC. LOADS LBS FOR SERVICE TEMP.		APPROX. WEIGHT PER 100
					650° F	750° F	
3	1	3	4-1/8	3/4	3370	3005	498
4	1	3-11/16	4-15/16	7/8	3515	3135	634
5	1	4-5/16	5-9/16	7/8	3515	3135	714
6	1-1/8	5-3/16	6-11/16	1	4865	4340	1351
8	1-1/8	6-1/4	7-3/4	1	4865	4340	1573
10	1-1/4	7-7/8	9-1/2	1-1/4	6010	5360	2537
12	1-5/8	9-1/2	11-5/8	1-1/2	8675	7740	4300
14	1-5/8	10-1/8	12-1/4	1-1/2	9120	8135	5228
16	1-5/8	11-3/16	13-5/16	1-1/2	9120	8135	5657
18	1-5/8	12-3/16	14-5/16	1-1/2	9150	8160	6914
20	1-5/8	13-5/16	15-7/16	1-1/2	9150	8160	7468
24	1-3/4	15-3/8	17-3/4	1-1/2	9200	8205	12629



K-5

STANDARD DOUBLE BOLT PIPE CLAMP

SIZE RANGE - 1/2" THRU 36" PIPE SIZE

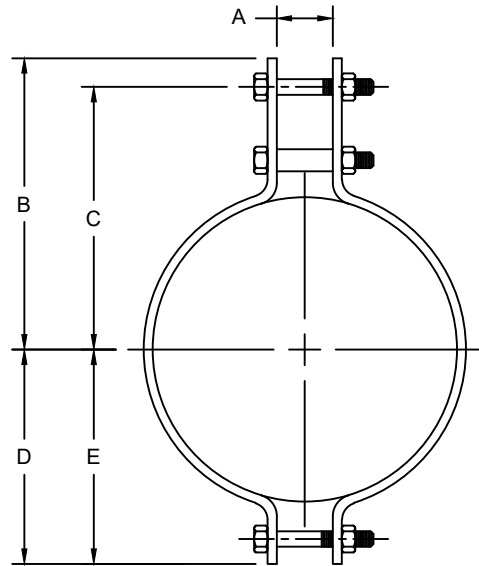
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DOUBLE BOLT ALLOWS EXTENSION OF ATTACHMENT BEYOND PIPE COVERING SEE MAXIMUM INSULATION COLUMN.

MAXIMUM TEMPERATURE - 750°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	D	E	MAX INSUL.	BOLT SIZE	MAX REC. LOADS LBS FOR SERVICE TEMP.		APPROX. WEIGHT PER 100
								650° F	750° F	
1/2	5/8	2-13/16	2-3/16	1-1/2	7/8	1-1/2	3/8	950	850	73
3/4	5/8	3	2-3/8	1-11/16	1-1/16	1-1/2	3/8	950	850	73
1	5/8	3-1/4	2-5/8	1-15/16	1-5/16	1-1/2	3/8	950	850	77
1-1/4	5/8	3-1/2	2-7/8	2-3/16	1-9/16	1-1/2	3/8	950	850	79
1-1/2	1	5-3/8	4-1/2	2-5/8	1-3/4	3	5/8	1545	1380	236
2	1	5-13/16	4-15/16	2-15/16	2-1/16	3	5/8	1545	1380	251
2-1/2	1	6-1/8	5-1/4	3-1/4	2-3/8	3-1/2	5/8	1545	1380	274
3	1	6-3/4	5-7/8	3-5/8	2-11/16	3-1/2	5/8	1545	1380	289
3-1/2	1	7-3/16	6-5/16	3-7/8	3	4	5/8	1545	1380	315
4	1	7-3/4	6-5/8	4-11/16	3-9/16	4	3/4	2500	2230	745
5	1	8-9/16	7-7/16	5-5/16	4-3/16	4	3/4	2500	2230	828
6	1-1/2	9-7/8	8-1/2	6-1/8	4-3/4	4-1/2	7/8	2865	2555	1261
8	1-1/2	11	9-5/8	7-5/16	5-15/16	4-1/2	7/8	2865	2555	1535
10	1-1/2	12	10-1/2	8-7/8	7-15/16	4-1/2	1	3240	2890	2173
12	1-1/2	13-1/8	11-5/8	9-15/16	8-7/16	4-1/2	1	3240	2890	2404
14	2	14-5/16	12-9/16	11-5/16	9-9/16	4-1/2	1-1/4	4300	3835	4002
16	2	15-9/16	13-13/16	12-5/16	10-9/16	5	1-1/4	4300	3835	4362
18	2	16-7/8	15-1/8	13-3/8	11-5/8	5-1/2	1-1/4	4300	3835	4935
20	2	18-1/4	16-3/8	15-1/8	13-1/4	5-1/2	1-3/8	5490	4900	6570
24	2	20-7/16	18-7/16	17-5/16	15-5/16	5-1/2	1-3/8	5490	4900	7524
30	2-1/2	26	23	22	19	7	1-3/8	7500		19502
36	2-1/2	32-3/8	28-7/8	25-5/8	22-1/8	10	1-3/4	10500		23488

K-5H

HEAVY DUTY DOUBLE BOLT PIPE CLAMP

SIZE RANGE - 6" THRU 36" PIPE SIZE

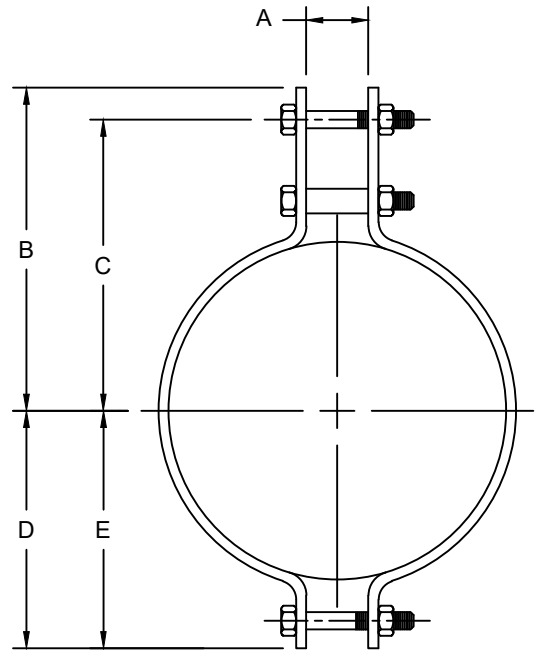
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED FOR THE SUSPENSION OF HEAVY DUTY HIGH TEMPERATURE PIPE RUNS REQUIRING UP TO 4" OF INSULATION AND WHERE FLEXIBILITY OF THE CLAMP MAY BE NECESSARY.

MAXIMUM TEMPERATURE - 750°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

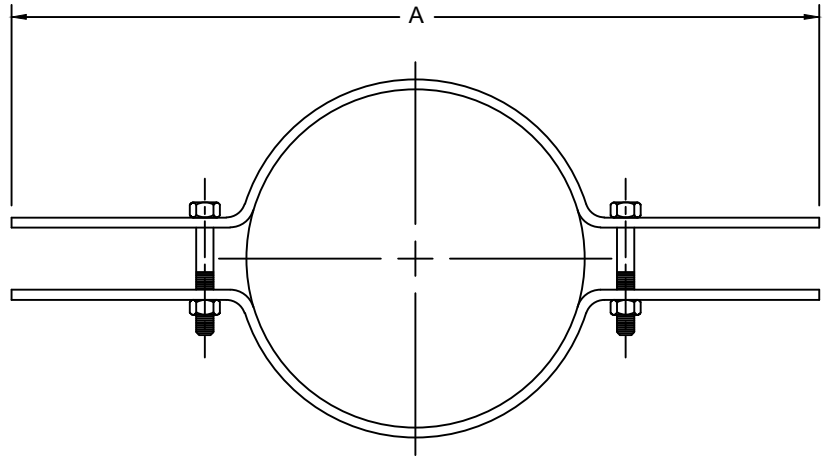


PIPE SIZE	A	B	C	D	E	BOLT SIZE	MAX REC. LOADS LBS FOR SERVICE TEMP.		APPROX. WEIGHT PER 100
							650° F	750° F	
6	1-3/4	10-3/16	8-15/16	6	4-3/4	1	3500	3125	1200
8	2	11-3/8	10-1/8	7-1/4	6	1-1/8	4800	4285	1850
10	2-1/4	13-1/8	11-3/8	9	7-1/4	1-1/4	5500	4910	3030
12	2-1/2	14-5/16	12-9/16	10-3/8	8-5/8	1-3/8	7000	6250	4200
14	2-1/2	15-1/2	13-1/2	11-5/8	9-5/8	1-1/2	9500	8485	6000
16	3	17-1/8	14-7/8	13-1/8	10-7/8	1-3/4	10000	8930	8000
18	3-1/2	18-1/4	16-1/4	14-1/2	12-1/2	2	13800	12325	11500
20	3-1/2	19-3/4	17-1/4	16	13-1/2	2	15300	13665	14000
24	3-1/2	22-3/8	19-5/16	18-1/2	15-1/2	2	16300	14555	19000
30	4-1/4	32-3/4	28-1/4	24-3/8	19-7/8	2-1/4	20500	-	40600
36	4-1/2	40-1/4	34-3/4	34-3/4	22-5/8	2-3/4	28000	-	67800

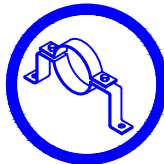
K-6

RISER CLAMP

SIZE RANGE - 1/2" THRU 20" PIPE SIZE
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS
FUNCTION - USED FOR SUPPORTING VERTICAL PIPING.
MAXIMUM TEMPERATURE - 650°
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	BOLT SIZE	MAXIMUM REC. LOAD LBS	APPROX. WEIGHT PER 100
1/2	9-1/4	3/8	255	144
3/4	9-1/4	3/8	255	144
1	9-9/16	3/8	255	147
1-1/4	9-11/16	3/8	255	150
1-1/2	10-3/8	3/8	255	153
2	10-3/4	3/8	255	165
2-1/2	11	3/8	390	228
3	12	3/8	530	246
3-1/2	13	1/2	670	264
4	13-1/2	1/2	810	347
5	14-1/2	1/2	1160	385
6	15-1/8	1/2	1570	564
8	18-1/2	5/8	2500	1017
10	20-1/4	5/8	2500	1138
12	22-3/4	5/8	2700	1759
14	24	5/8	2700	1922
16	26	3/4	2900	3245
18	28	3/4	2900	3372
20	30	3/4	2900	3499



K-7 OFFSET PIPE CLAMP

SIZE RANGE - 1/2" THRU 12" PIPE SIZE

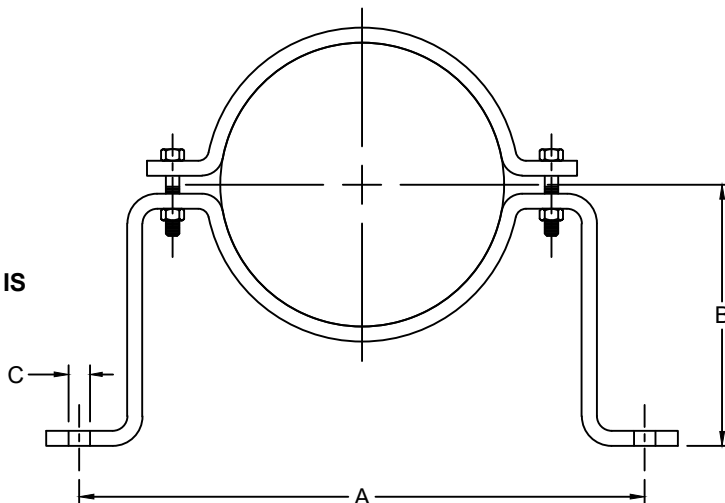
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - OFFSET PIPE CLAMPS ARE USED TO SUPPORT PIPE LINES RUNNING AT A DEFINITE DISTANCE FROM THE WALL OR FLOOR OF BUILDING. THE STANDARD CLEARANCE IS TWO INCHES FROM BACK OF PIPE TO WALL OR FLOOR LINE. WHEN OTHER CLEARANCES ARE DESIRED CLAMPS WILL BE FURNISHED TO ORDER.

MAXIMUM TEMPERATURE - 650°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	BOLT SIZE	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
1/2	5-13/16	2-7/16	7/16	3/8 x 1 1/4	190	107
3/4	5-15/16	2-1/2	7/16	3/8 x 1 1/4	190	109
1	6-1/4	2-5/8	7/16	3/8 x 1 1/4	190	116
1-1/4	6-11/16	2-3/4	7/16	3/8 x 1 1/4	190	126
1-1/2	6-15/16	3	7/16	3/8 x 1 1/4	190	134
2	8-5/16	3-3/16	7/16	3/8 x 1 1/4	420	191
2-1/2	8-7/8	3-7/16	7/16	3/8 x 1 1/4	420	209
3	9-1/2	3-3/4	7/16	3/8 x 1 1/4	420	232
3-1/2	10-1/16	4	7/16	3/8 x 1 1/4	420	250
4	10-9/16	4-1/4	9/16	1/2 x 1 1/2	610	327
5	11-11/16	4-3/4	9/16	1/2 x 1 1/2	610	370
6	14-3/8	5-5/16	9/16	1/2 x 2	870	650
8	16-7/16	6-5/16	9/16	1/2 x 2	870	787
10	21-1/2	7-3/8	13/16	3/4 x 2	925	1238
12	24-7/8	8-3/8	13/16	3/4 x 2	1225	2100

K-10

FLANGE RESTRAINT LUG

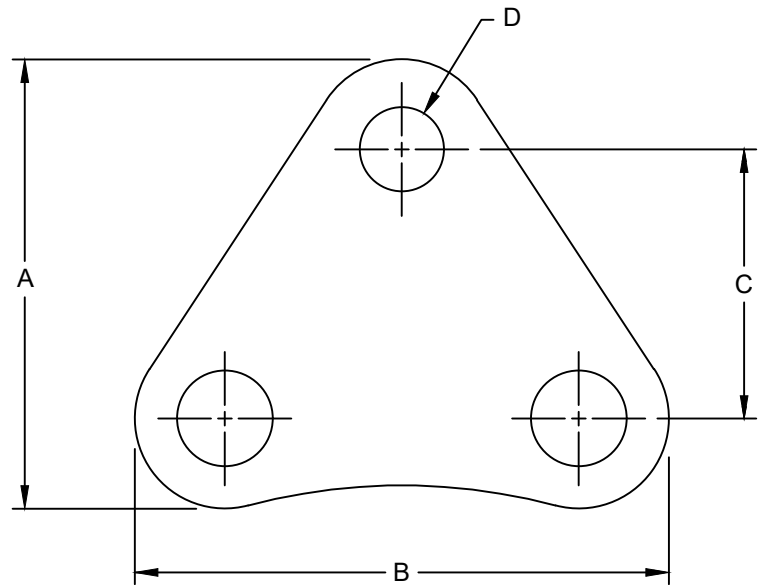
SIZE RANGE - 2" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - PROVIDES RESTRAINT FOR FLANGED CONNECTIONS. DESIGNED FOR USE WITH AN ANSI B16.1 CLASS 125 OR AWWA C207 CLASS E LUGS FOR CLASS 250/300 ARE ALSO AVAILABLE

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - PIPE SIZE, CLASS AND FINISH



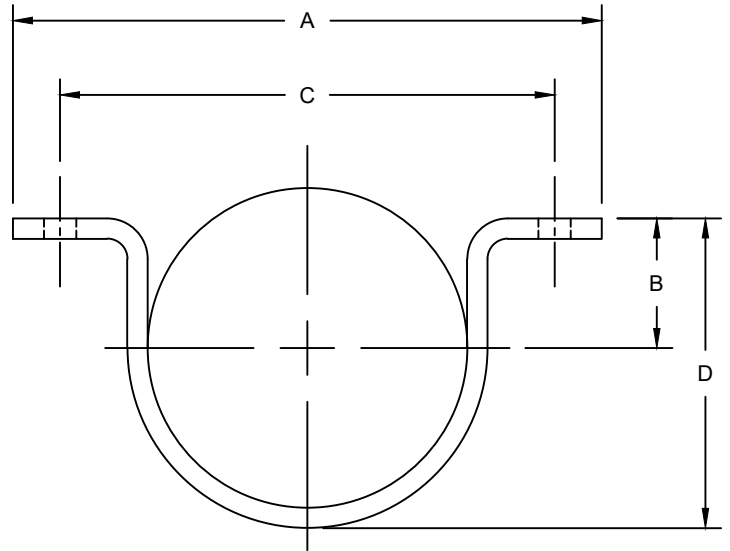
FLANGE SIZE	A	B	C	D	PLATE SIZE	APPROX. WEIGHT PER 100
2	4-5/16	4-7/8	2-3/4	7/8	3/8	215
4	4-7/16	4-5/8	2-3/4	7/8	3/8	217
6	4-9/16	5-1/4	2-13/16	7/8	1/2	321
8	4-3/4	6-1/8	3	7/8	1/2	325
10	4-11/16	5-9/16	2-13/16	7/8	1/2	327
12	5-5/16	6-5/8	3	7/8	3/4	645
14	6-1/8	7-1/2	3-3/8	1-3/8	3/4	652
16	6-1/8	7	3-1/4	1-3/8	3/4	655
18	6	6-13/16	3-3/8	1-3/8	3/4	660
20	6-5/8	6-7/16	3-5/8	1-1/2	1	1246
24	7	7-1/2	3-3/4	1-5/8	1	1290



K-20

STANDARD PIPE STRAP

SIZE RANGE - 1/2" THRU 8" PIPE SIZE
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS
FUNCTION - GENERAL PIPING SUPPORT OR HOLD DOWN
MAXIMUM TEMPERATURE - 650°
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	D	HOLE SIZE	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
1/2	3-7/8	3/4	3-1/16	15/32	7/16	410	16
3/4	4	13/16	3-1/8	1-5/16	7/16	410	21
1	4-9/16	7/8	3-3/8	1-1/2	7/16	410	26
1-1/4	4-15/16	1	3-3/4	1-7/8	7/16	410	30
1-1/2	5-3/16	1-3/16	4-1/4	2-1/8	7/16	410	38
2	5-3/4	1-7/16	4-3/4	2-5/8	7/16	410	38
2-1/2	6-1/4	1-11/16	5-1/4	3-1/8	7/16	610	102
3	6-7/8	2	5-7/8	3-3/4	7/16	610	118
3-1/2	7-3/8	2-1/4	6-3/8	4-1/4	7/16	610	130
4	8-3/8	2-1/2	7	4-3/4	9/16	725	159
5	9-7/16	3-1/16	7-7/8	5-13/16	9/16	725	191
6	10-1/2	3-5/8	8-7/8	6-7/8	9/16	725	234
8	14	4-3/8	11-1/2	9	11/16	900	446

K-20L

LONG PIPE STRAP

SIZE RANGE - 1" THRU 8" PIPE SIZE

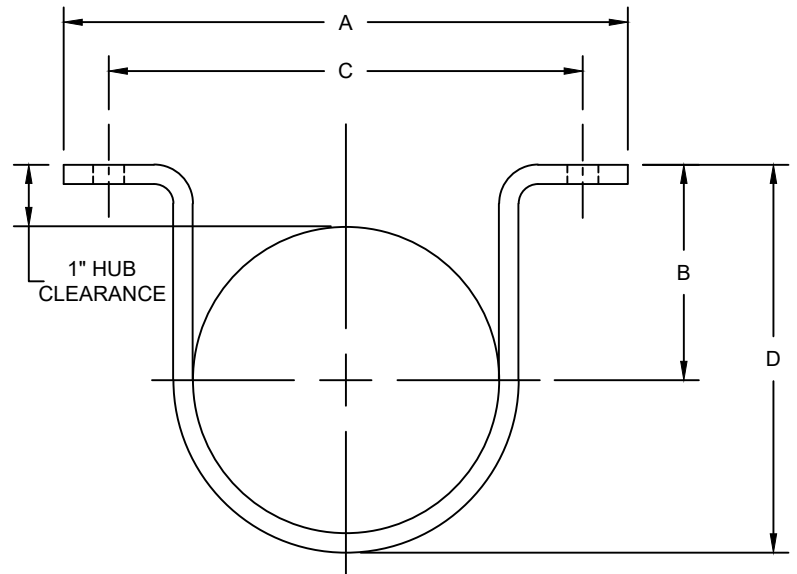
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO HANG OR HOLD DOWN PIPING WITH STANDARD OUTSIDE DIAMETER, WHERE HOLDING PIPE AWAY FROM MOUNTING SURFACE IS REQUIRED

MAXIMUM TEMPERATURE - 650°

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

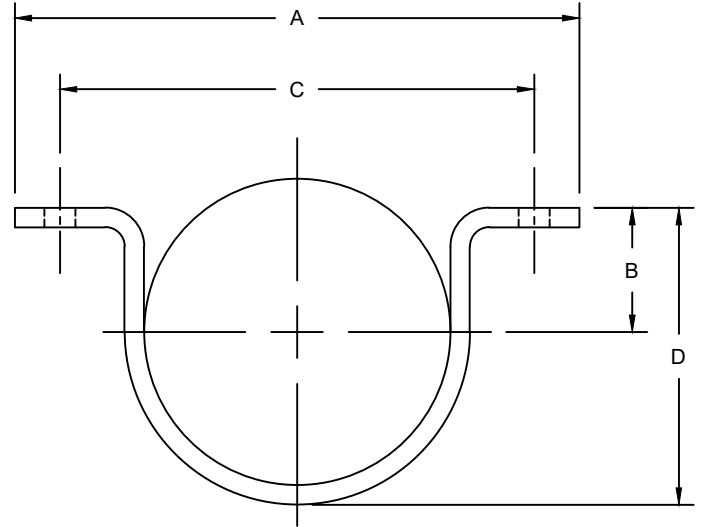


PIPE SIZE	A	B	C	D	HOLE SIZE	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
1	4-9/16	1-5/8	3-3/8	2-7/16	7/16	410	33
1-1/4	4-15/16	1-13/16	3-3/4	2-3/4	7/16	410	42
1-1/2	5-3/16	1-15/16	4-1/4	3	7/16	410	46
2	5-3/4	2-1/16	4-3/4	3-3/8	7/16	410	50
2-1/2	6-1/4	2-1/2	5-1/4	4-3/16	7/16	610	115
3	6-7/8	2-3/4	5-7/8	4-3/4	7/16	610	126
3-1/2	7-3/8	3	6-3/8	5-1/4	7/16	610	145
4	8-3/8	3-1/4	7	5-3/4	9/16	725	173
5	9-7/16	3-3/4	7-7/8	6-3/4	9/16	725	197
6	10-1/2	4-1/4	8-7/8	7-13/16	9/16	725	239
8	14	5-5/16	11-1/2	10	11/16	900	463

K-20S

FLUSH MOUNT PIPE STRAP

SIZE RANGE - 1/2" THRU 8" PIPE SIZE
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS
FUNCTION - TO HOLD PIPE FLUSH WITH MOUNTING SURFACE
MAXIMUM TEMPERATURE - 650°
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	D	HOLE SIZE	MAX. REC. LOAD LBS.	APPROX. WEIGHT PER 100
1/2	4-1/8	5/16	2-7/8	3/4	7/16	410	21
3/4	4-5/16	7/16	3	15/16	7/16	410	24
1	4-9/16	9/16	3-3/8	1-1/8	7/16	410	26
1-1/4	4-15/16	11/16	3-3/4	1-1/2	7/16	410	30
1-1/2	5-3/16	13/16	4-1/4	1-5/8	7/16	410	33
2	5-3/4	1-1/16	4-3/4	2-1/4	7/16	410	38
2-1/2	6-1/4	1-9/16	5-1/4	2-3/4	7/16	610	102
3	6-7/8	1-5/8	5-7/8	3-3/8	7/16	610	118
3-1/2	7-3/8	1-7/8	6-3/8	3-7/8	7/16	610	130
4	8-3/8	2-1/8	7	4-3/8	9/16	725	159
5	9-7/16	2-5/8	7-7/8	5-3/8	9/16	725	191
6	10-1/2	3-3/16	8-7/8	6-7/16	9/16	725	234
8	14	4-1/4	11-1/2	8-3/8	11/16	900	446

K-30

LIGHT WELDED BRACKET

SIZE RANGE - 9", 13" AND 19"

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

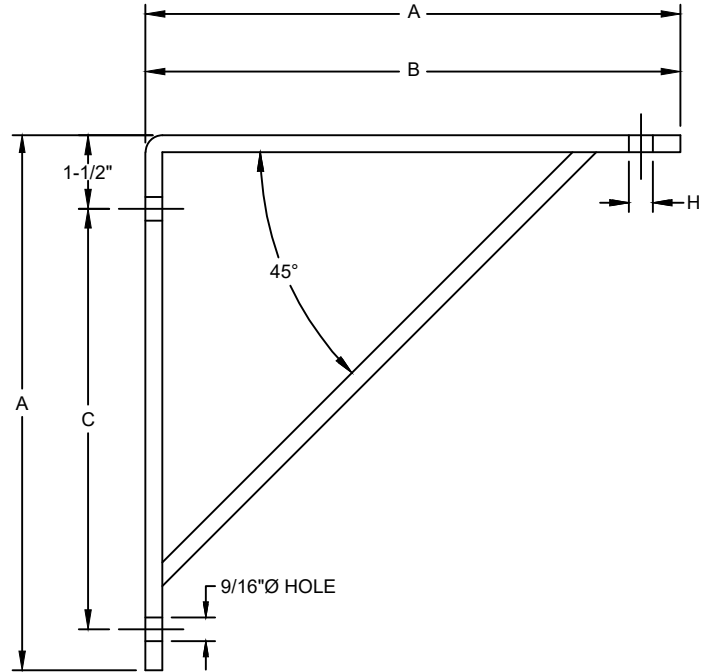
FUNCTION - FOR SUSPENDING PIPE OUTWARD FROM MOUNTING SURFACE.

MAXIMUM RECOMMENDED LOAD - 500 LBS

SIZE RANGE - DESIGNED TO SUPPORT UP TO 3-1/2" STANDARD PIPE

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, INDICATE "A" AND "H" DIMENSIONS, AND FINISH



A	B	C	H	MAXIMUM REC. LOAD LBS
9	8	6-1/2	3/8 OR 1/2	500
13	12	10-1/2	3/8 OR 1/2	500
19	18	16-1/2	3/8 OR 1/2	500

K-30L

WELDED BRACKET LIGHT DUTY

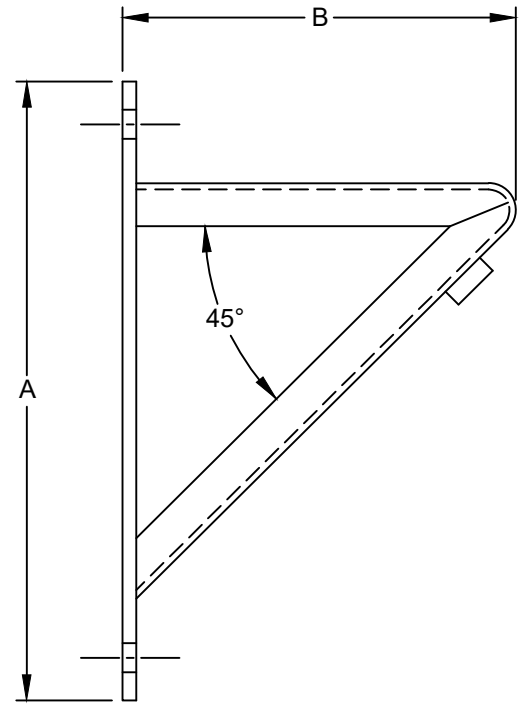
MAX. RECOMMENDED LOAD - 750 LBS

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

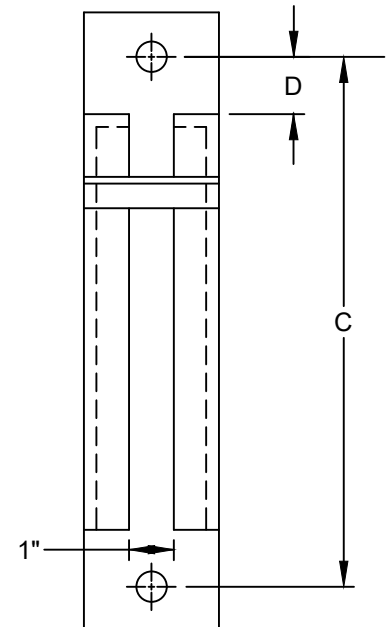
FUNCTION - SPACE BETWEEN ANGLES ALLOWS SUPPORTING PIPE ON TOP OR HANGING THROUGH SUPPORT BRACKET

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, SIZE, AND FINISH



SIZE	A	B	C	D	BACK PLATE SIZE	HOLE SIZE	MAX. REC. LOAD LBS.	APPROX. WEIGHT PER 100
1	13	9	11-1/2	1-1/4	1/4 X 3	9/16	750	571
2	17	13	15-1/2	1-1/4	1/4 X 3	9/16	750	769
3	23	19	21-1/2	1-1/4	1/4 X 3	9/16	750	1057



K-30M

WELDED BRACKET MEDIUM DUTY

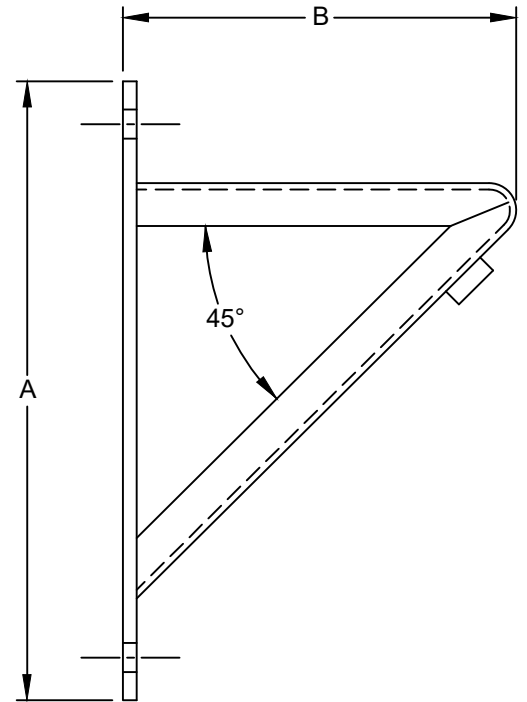
MAX. RECOMMENDED LOAD - 1500 LBS

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

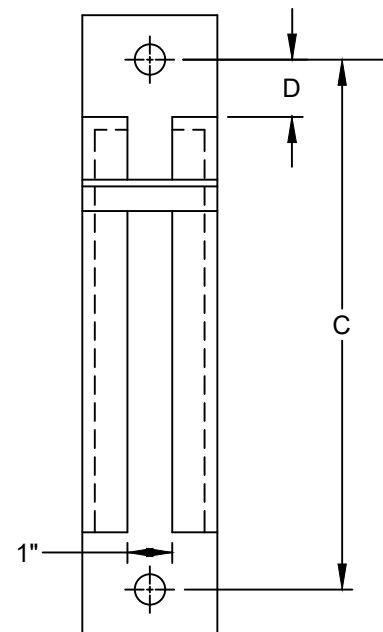
FUNCTION - SPACE BETWEEN ANGLES ALLOWS SUPPORTING PIPE ON TOP OR HANGING THROUGH SUPPORT BRACKET

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, SIZE, AND FINISH



SIZE	A	B	C	D	BACK PLATE SIZE	HOLE SIZE	MAX. REC. LOAD LBS.	APPROX. WEIGHT PER 100
0	18	12	15-1/2	1-1/4	3/8 X 4	13/16	1500	1577
1	24	18	21-1/2	1-1/4	3/8 X 4-1/2	13/16	1500	2578
2	30	24	27-1/2	1-1/4	3/8 X 5	13/16	1500	4446



K-30H

WELDED BRACKET HEAVY DUTY

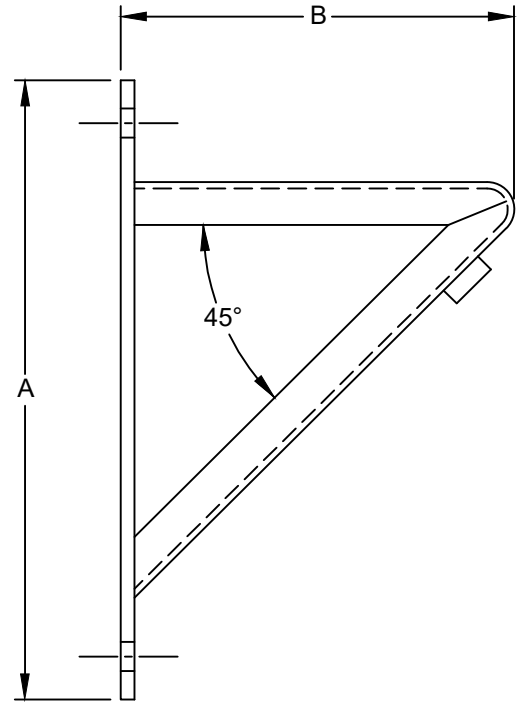
MAX. RECOMMENDED LOAD - 3000 LBS

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

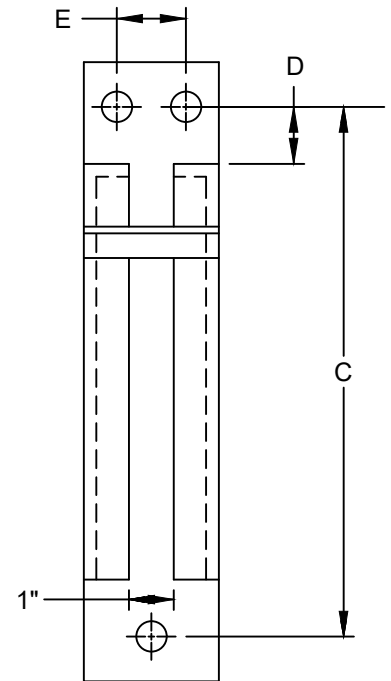
FUNCTION - SPACE BETWEEN ANGLES ALLOWS SUPPORTING PIPE ON TOP OR HANGING THROUGH SUPPORT BRACKET

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, SIZE, AND FINISH



SIZE	A	B	C	D	E	BACK PLATE SIZE	HOLE SIZE	MAX. REC. LOAD LBS.	APPROX. WEIGHT PER 100
1	18	12	15-1/4	1-3/8	-	1/2 X 4	1-1/8	3000	2195
2	24	18	21-1/4	1-3/8	2-1/2	1/2 X 5	1-1/8	3000	4398
3	30	24	27-1/4	1-3/8	2-1/2	1/2 X 5	1-1/8	3000	6294
4	36	30	33	1-1/2	2-1/2	1/2 X 5	1-1/8	3000	7196
5	42	36	39	1-1/2	3-1/2	1/2 X 6	1-1/8	3000	13197
6	50	42	46	1-1/2	3-1/2	1/2 X 6	1-1/8	3000	15795



K-31M

WELDED KNEE BRACKET

SIZE RANGE - 2 1/2" THRU 8" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGN ALLOWS PIPE TO BE MOUNTED OUT FROM WALL SURFACE. PIPE IS ATTACHED TO BRACKET BY MEANS OF "U" BOLT MOUNTED DIRECTLY TO BRACKET BODY

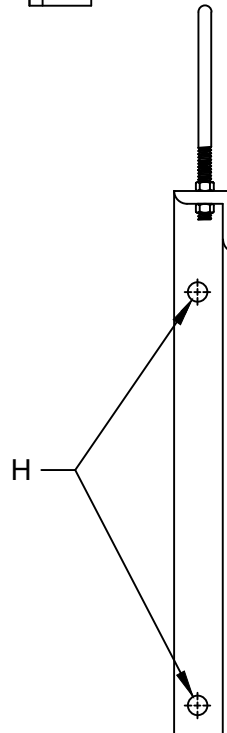
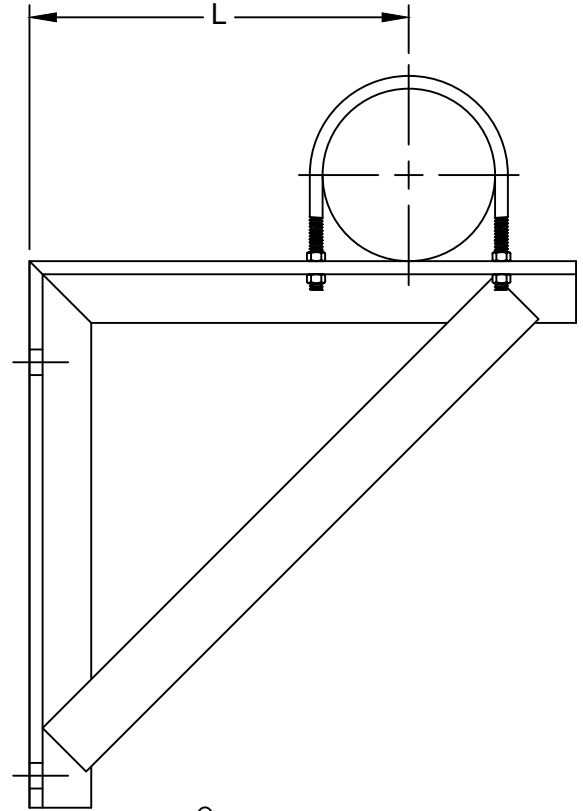
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE, AND INDICATE "L" DIMENSION, AND FINISH

NOTE - MAXIMUM "L" DIMENSION - 1'-4"

ANGLE IRON = 1/4" X 2" X 2"

FLAT BAR BRACE = 1/4" X 2"



PIPE SIZE	L LENGTH	H	MAX. REC. LOAD LBS.
2-1/2	-	9/16	1000
3	-	9/16	1000
3-1/2	-	9/16	1000
4	-	11/16	1000
5	-	11/16	1000
6	-	11/16	1000
8	-	11/16	1000

K-31 O

"O" BRACKET

SIZE RANGE - 2 1/2" THRU 8" PIPE SIZE

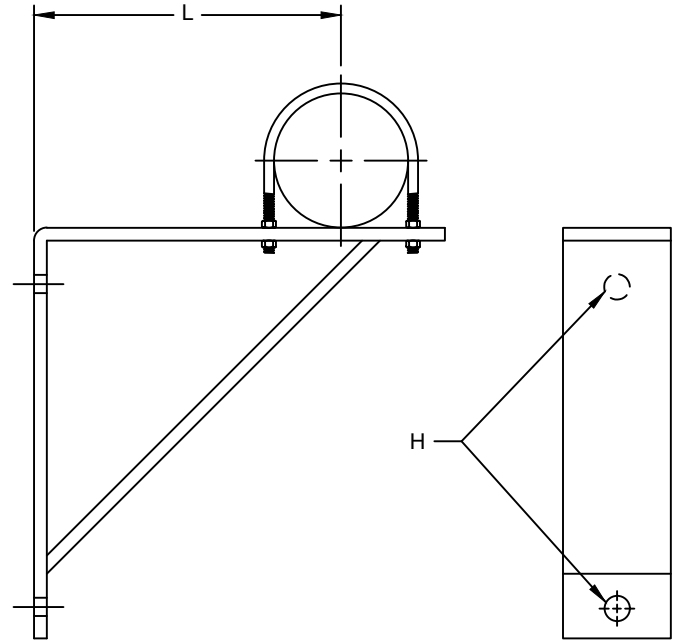
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - SAME AS K-31M EXCEPT FOR LIGHTER LOADS

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

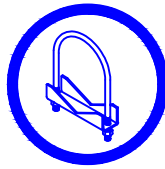
ORDER BY - FIGURE NUMBER, PIPE SIZE, AND INDICATE "L" DIMENSION, AND FINISH

NOTE - MAXIMUM "L" DIMENSION - 1'-4"



PIPE SIZE	L	HOLE SIZE	MAX. REC. LOAD LBS.
2-1/2	*	9/16	450
3	*	9/16	450
3-1/2	*	9/16	450
4	*	11/16	450
5	*	11/16	450
6	*	11/16	450
8	*	11/16	450

* CUSTOMER SPECIFIED (MAX. 1'-4")



K-32

ANCHOR CHAIR

SIZE RANGE - 1/2" THRU 24" PIPE SIZE

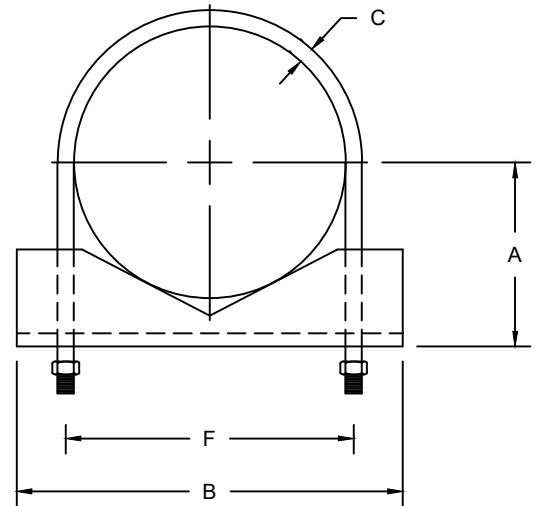
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - PIPE ANCHOR USED WITH BRACKET OR STRUCTURAL MEMBERS

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

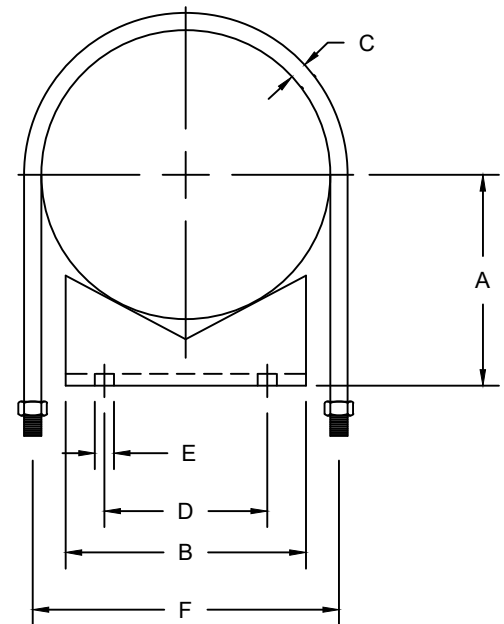
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

NOTE - 1/2" THRU 4", USE U-BOLT TO FASTEN CHAIR TO SUPPORT; 5" THRU 24" HOLES ARE PROVIDED IN CHAIR FOR FASTENING TO SUPPORT, IF REQUIRED.



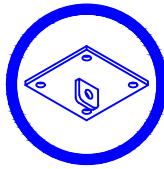
1/2" - 4"

PIPE SIZE	A	B	C	F	APPROX. WEIGHT PER 100
1/2	15/16	2-3/16	3/8	1-15/16	80
3/4	1-1/16	2-3/8	3/8	1-1/2	88
1	1-3/16	2-5/8	3/8	1-3/4	96
1-1/4	1-3/8	2-7/8	3/8	2-1/16	107
1-1/2	1-9/16	3-1/4	3/8	2-3/8	118
2	1-3/4	3-5/8	3/8	2-13/16	132
2-1/2	2	4-15/16	1/2	3-7/16	175
3	2-3/8	5-9/16	1/2	4-1/16	215
3-1/2	2-5/8	6-1/16	1/2	4-9/16	240
4	2-7/8	6-9/16	1/2	5-1/16	265



5" - 24"

PIPE SIZE	A	B	C	D	E	F	APPROX. WEIGHT PER 100
5	3-7/16	4	1/2	2-1/4	13/16 X 1-1/16	6-1/16	290
6	4	5	5/8	3	13/16 X 1-1/16	7-1/4	315
8	5-1/4	7	5/8	4-1/2	13/16 X 1-1/16	9-3/8	885
10	6-7/16	8	3/4	5-1/2	13/16 X 1-1/16	11-5/8	1050
12	7-1/2	9	7/8	6	13/16 X 1-1/16	13-3/4	1210
14	8-3/16	10	7/8	7	13/16 X 1-1/16	15	1480
16	9-1/4	10	7/8	7	13/16 X 1-1/16	17	1735
18	10-3/8	11	1	7	13/16 X 1-1/16	19-1/8	2011
20	11-3/8	11	1	7	13/16 X 1-1/16	21-1/8	2332
24	13-5/8	12	1	8	13/16 X 1-1/16	25-1/8	2550



K-33

CONCRETE SINGLE LUG PLATE

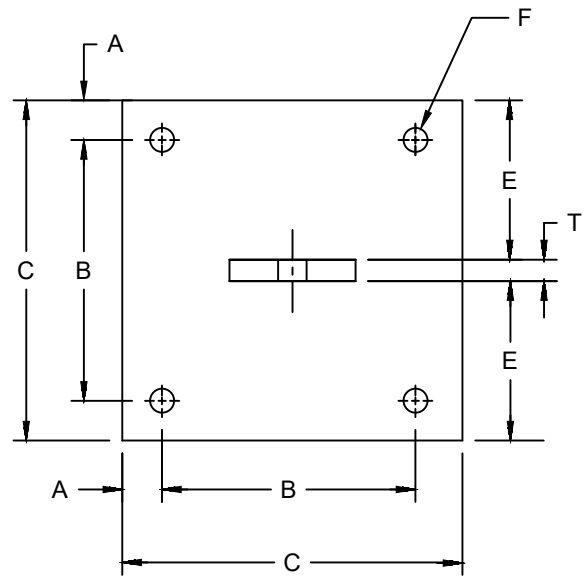
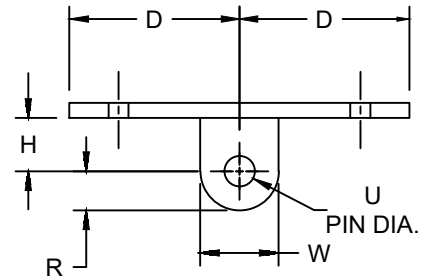
SIZE RANGE - 1/2" THRU 2" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

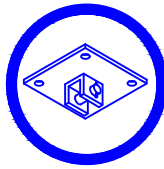
FUNCTION - STRUCTURAL ATTACHMENT TO CONCRETE CEILING. LUG IS USED IN CONJUNCTION WITH K-322 BRIDGE CLEVIS.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



ROD SIZE	A	B	C	D	E	F	H	R	T	U	W	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
1/2	1	8	10	5	4-7/8	9/16	1-1/2	1-1/4	1/4	5/8	2-1/2	1130	1115
5/8	1	8	10	5	4-7/8	9/16	1-1/2	1-1/4	1/4	3/4	2-1/2	1810	1465
3/4	1	8	10	5	4-13/16	11/16	1-1/2	1-1/4	3/8	7/8	2-1/2	2710	1478
7/8	1	8	10	5	4-13/16	11/16	2	1-1/4	3/8	1	2-1/2	3770	2195
1	2	8	12	6	5-3/4	13/16	2	1-1/2	1/2	1-1/8	3	4960	3185
1-1/4	2	8	12	6	5-11/16	15/16	3	2	5/8	1-3/8	4	8000	4385
1-1/2	2	8	12	6	5-5/8	1-1/8	3	2-1/2	3/4	1-5/8	5	11630	4568
1-3/4	2	8	12	6	5-5/8	1-3/8	3	2-1/2	3/4	1-7/8	5	15700	5578
2	2	8	12	6	5-5/8	1-3/8	4	3	3/4	2-1/4	6	20700	5820



K-34

CONCRETE CLEVIS PLATE WITH PIN

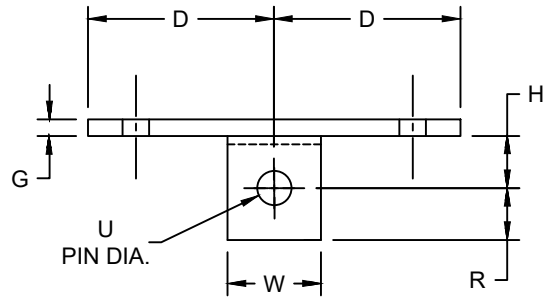
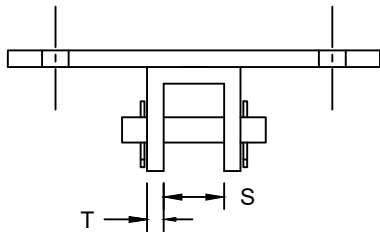
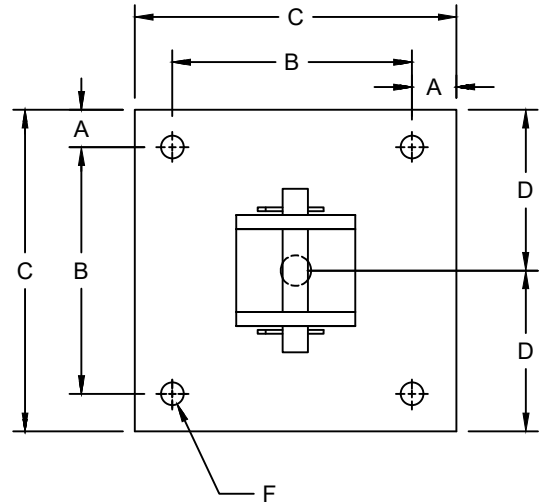
SIZE RANGE - 3/8" THRU 2" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - STRUCTURAL ATTACHMENT TO CONCRETE CEILING WHERE FLEXIBILITY IS DESIRED. CONCRETE CLEVIS PLATE IS NORMALLY USED IN CONJUNCTION WITH FIG. 330 WELDLESS EYE NUT OR FIG. 101 WELDED EYE ROD.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



ROD SIZE	A	B	C	D	F	G	H	R	S	T	U	W	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	1	8	10	5	9/16	3/8	2	7/8	1-1/4	1/4	1/2	2	610	1175
1/2	1	8	10	5	9/16	3/8	2	7/8	1-1/4	1/4	5/8	2	1130	1185
5/8	1	8	10	5	9/16	1/2	2	1	1-1/4	1/4	3/4	2	1810	1565
3/4	1	8	10	5	11/16	1/2	2	1-1/8	1-1/2	3/8	7/8	2-1/2	2710	1685
7/8	1	8	10	5	11/16	1/2	3	1-1/4	2	3/8	1	2-1/2	3770	1805
1	2	8	12	6	13/16	3/4	3	1-1/2	2	1/2	1-1/8	3	4960	3685
1-1/4	2	8	12	6	15/16	3/4	3	2	2-1/2	5/8	1-3/8	4	8000	4085
1-1/2	2	8	12	6	1-1/8	1	4	2-1/2	3	3/4	1-5/8	5	11630	5975
1-3/4	2	10	14	7	1-3/8	1-1/4	5	2-3/4	3-3/4	3/4	1-7/8	5	15700	9355
2	2	10	14	7	1-3/8	1-1/4	5	3-1/4	3-3/4	3/4	2-1/4	6	20700	10000

K-35

CONCRETE ROD ATTACHMENT PLATE

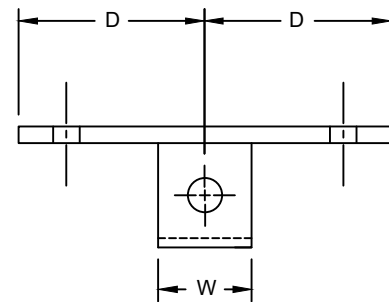
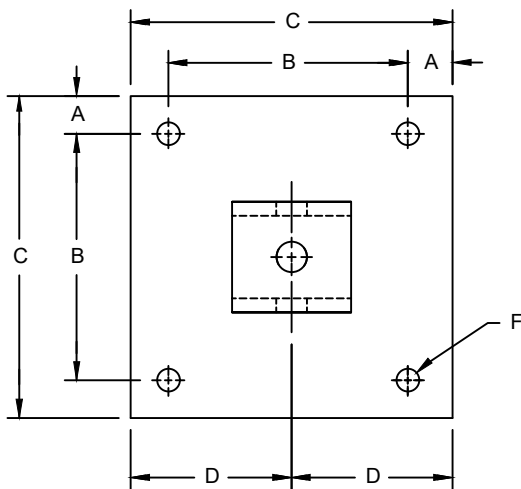
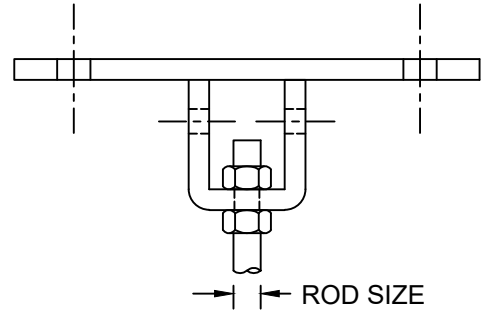
SIZE RANGE - 3/8" THRU 2" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - STRUCTURAL ATTACHMENT TO CONCRETE PIPE LINES RUNNING AT A DEFINITE DISTANCE FROM THE CEILING WHERE VERTICAL ADJUSTMENT IS DESIRED. NORMALLY USED WITH THREADED ROD AND NUT.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



ROD SIZE	A	B	C	D	F	W	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	1	8	10	5	9/16	2	610	1155
1/2	1	8	10	5	9/16	2	1130	1160
5/8	1	8	10	5	9/16	2	1810	1505
3/4	1	8	10	5	11/16	2-1/2	2710	1605
7/8	1	8	10	5	11/16	2-1/2	3770	1665
1	2	8	12	6	13/16	3	4960	3485
1-1/4	2	8	12	6	15/16	4	8000	3865
1-1/2	2	8	12	6	1-1/16	5	11630	5635
1-3/4	2	10	14	7	1-3/8	5	15700	8805
2	2	10	14	7	1-3/8	6	20700	9215



K-65

REVERSIBLE C-TYPE BEAM CLAMPS

3/4" THROAT OPENING

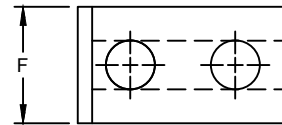
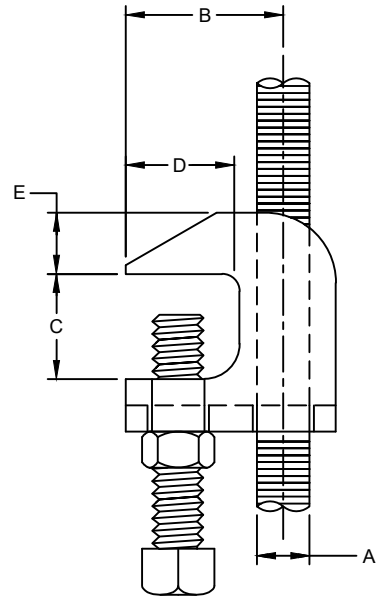
SIZE RANGE - 3/8" THRU 5/8" ROD SIZE

MATERIAL - CARBON STEEL WITH HARDENED CUP POINT
SET SCREW AND JAM NUT

FUNCTION - RECOMMENDED FOR HANGING FROM STEEL BEAM
WHERE FLANGE THICKNESS DOES NOT EXCEED 3/4"

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



ROD SIZE	PIPE SIZE	B	C	D	E	F	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	1/2 - 4	1-3/16	3/4	1	7/16	1	610	28
1/2	5 - 8	1-1/2	3/4	1	9/16	1-1/4	1130	55
5/8	10	1-1/2	3/4	1	9/16	1-1/4	1130	55

K-66

REVERSIBLE C-TYPE BEAM CLAMPS

1 1/4" THROAT OPENING

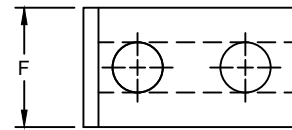
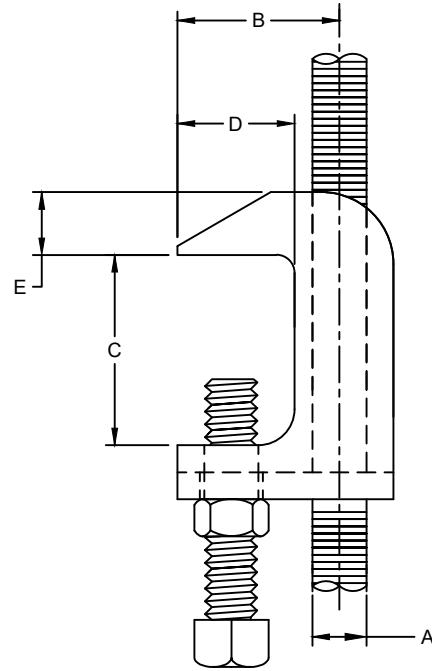
SIZE RANGE - 3/8" THRU 5/8" ROD SIZE

MATERIAL - CARBON STEEL WITH HARDENED CUP POINT
SET SCREW AND JAM NUT

FUNCTION - RECOMMENDED FOR HANGING FROM STEEL BEAM
WHERE FLANGE THICKNESS DOES NOT EXCEED 1-1/4"

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



ROD SIZE	PIPE SIZE	B	C	D	E	F	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	1/2 - 4	1-3/16	1-1/4	1	7/16	1	610	28
1/2	5 - 8	1-1/2	1-1/4	1	9/16	1-1/4	1130	55
5/8	10	1-1/2	1-1/4	1	9/16	1-1/4	1130	55

K-103

HANGER ROD THREADED BOTH ENDS

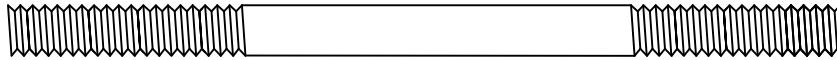
SIZE RANGE - 3/8" THRU 1-1/2" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - FOR USE AS A HANGER SUPPORT IN HANGER ASSEMBLIES. ROD IS THREADED ON BOTH ENDS WITH RIGHT HAND THREADS OF THE LENGTH SHOWN. ALSO AVAILABLE WITH THE LEFT HAND THREADS. SPECIFY WHEN ORDERING.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE LENGTH AND FINISH



ROD SIZE	MAX. REC. LOAD LBS FOR SERVICE TEMPS.	
	650°	750°
3/8	610	540
1/2	1130	1010
5/8	1810	1610
3/4	2710	2420
7/8	3770	3360
1	4960	4420
1-1/4	8000	7140
1-1/2	11630	10370

K-107

ANCHOR BOLT

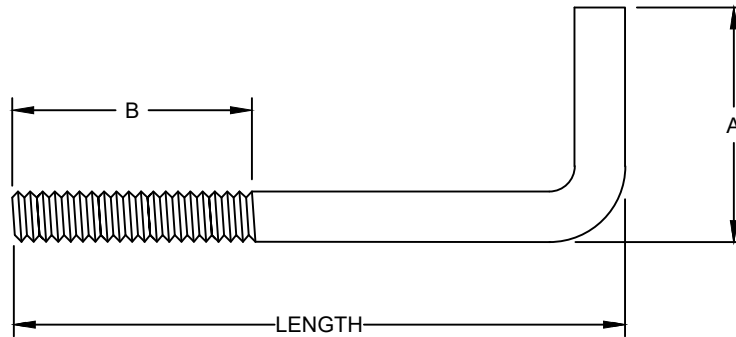
SIZE RANGE - 3/8" THRU 1-1/2" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

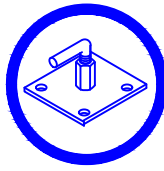
FUNCTION - TO BE EMBEDDED IN CONCRETE FOR SECURE FASTENING OF APPARATUS TO SURFACE

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE LENGTH AND FINISH



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



K-107F CONCRETE INSERT

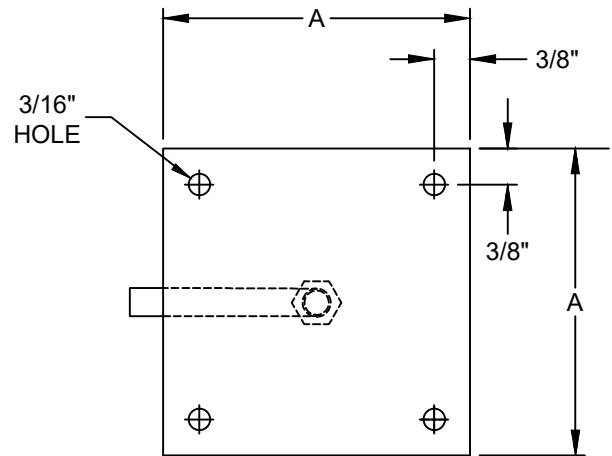
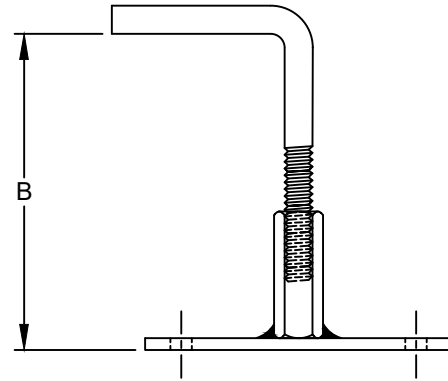
SIZE RANGE - 5/8" THRU 1" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO BE EMBEDDED IN CONCRETE TO PROVIDE A POINT OF SUPPORT FOR 5/8 THRU 1 INCH ROD OR BOLT SIZES

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER AND ROD SIZE



ROD SIZE	A	B MIN. EMBED.	MAX REC. LOAD LBS. IN 3000 LB HARD ROD CONCRETE
5/8	3	3-1/2	1810
3/4	3	3-1/2	2710
7/8	3	4	3770
1	3	4	4960

K-109F

CONCRETE INSERT

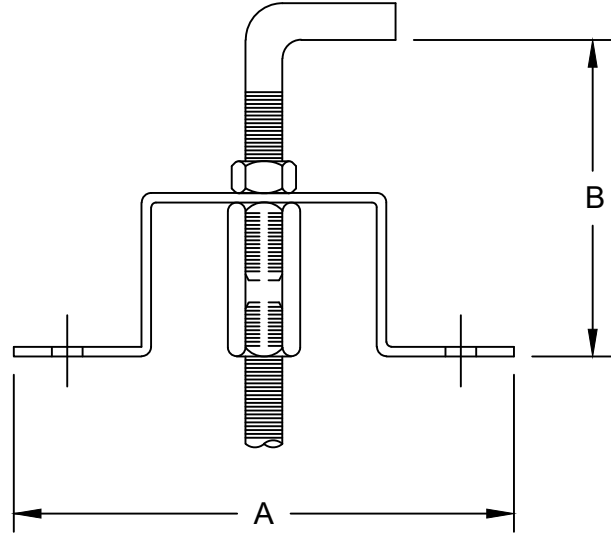
SIZE RANGE - 3/8" & 1/2" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

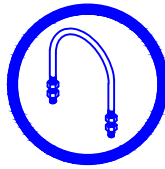
FUNCTION - DESIGNED TO BE EMBEDDED IN CONCRETE TO PROVIDE A POINT OF SUPPORT FOR 3/8" & 1/2" ROD OR BOLT SIZES

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER AND ROD SIZE



ROD SIZE	A	B MIN. EMBED.	MAX REC. LOAD LBS. IN 3000 LB HARD ROD CONCRETE	MAX REC. LOAD LBS. IN 3000 LB LIGHT ROD CONCRETE	APPROX. WEIGHT PER 100
3/8	3-7/8	3-1/2	1255	753	90
1/2	3-7/8	3-1/2	2321	1392	110



K-110

STEEL PIPE U-BOLT

SIZE RANGE - 1/2" THRU 36" PIPE

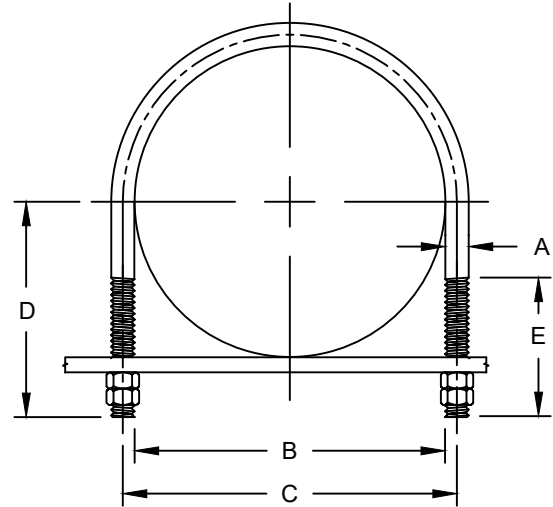
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - RECOMMENDED FOR SUPPORT, ANCHOR OR GUIDE OF HEAVY LOADS, OFTEN EMPLOYED IN POWER AND PROCESS PLANT SERVICE

FINISH - PLAIN, ELECTRO-GALVANIZED, HDG

ORDER BY - FIGURE NUMBER, ROD SIZE X PIPE SIZE (AS 5/8 X 6)

U-BOLT CAN BE FURNISHED WITH LONGER TANGENTS "D" OR WITH LONGER THREADS "E", IF SO REQUIRED.



PIPE SIZE	A ROD SIZE	B	C	D	E	MAX. REC. LOAD LBS* FOR SERVICE TEMPS.		APPROX. WEIGHT PER 100
						650°F	750°F	
1/2	1/4	15/16	1-3/16	2-3/4	2-1/8	485	435	11
3/4	1/4	1-1/8	1-3/8	2-3/4	2-1/8	485	435	12
1	1/4	1-3/8	1-5/8	2-3/4	2-1/8	485	435	12
1-1/4	3/8	1-11/16	2-1/16	2-7/8	2-1/8	1220	1090	28
1-1/2	3/8	2	2-3/8	3	2-1/2	1220	1090	30
2	3/8	2-7/16	2-13/16	3-1/4	2-1/2	1220	1090	33
2-1/2	1/2	2-15/16	3-7/16	3-3/4	3	2260	2020	85
3	1/2	3-9/16	4-1/16	4	3	2260	2020	93
3-1/2	1/2	4-1/16	4-9/16	4-1/4	3	2260	2020	101
4	1/2	4-9/16	5-1/16	4-1/2	3	2260	2020	110
5	1/2	5-5/8	6-1/8	5	3	2260	2020	124
6	5/8	6-3/4	7-3/8	6-1/8	3-3/4	3620	3230	200
8	5/8	8-3/4	9-3/8	7-1/8	3-3/4	3620	3230	230
10	3/4	10-7/8	11-5/8	8-3/8	4	5420	4830	486
12	7/8	12-7/8	13-3/4	9-5/8	4-1/4	7540	6730	790
14	7/8	14-1/8	15	10-1/4	4-1/4	7540	6730	850
16	7/8	16-1/8	17	11-1/4	4-1/4	7540	6730	935
18	1	18-1/8	19-1/8	12-5/8	4-3/4	9920	8850	1360
20	1	20-1/8	21-1/8	13-5/8	4-3/4	9920	8850	1476
24	1	24-1/8	25-1/8	15-5/8	4-3/4	9920	8850	1698
30	1	30-1/8	31-1/8	18-5/8	4-3/4	9920	8850	2027
36	1	36-1/8	37-1/8	21-5/8	4-3/4	9920	8850	2320

K-110 DI

DUCTILE IRON PIPE U-BOLT

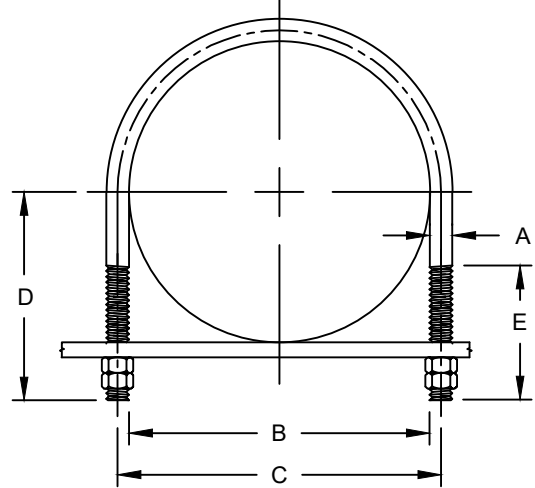
SIZE RANGE - 3" THRU 36" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

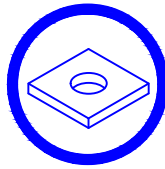
FUNCTION - RECOMMENDED FOR SUPPORT, ANCHOR OR GUIDE OF HEAVY LOADS, OFTEN EMPLOYED IN POWER AND PROCESS PLANT SERVICE

FINISH - PLAIN, ELECTRO-GALVANIZED, HDG

ORDER BY - FIGURE NUMBER, ROD SIZE X PIPE SIZE (AS 5/8 X 6)
 U-BOLT CAN BE FURNISHED WITH LONGER TANGENTS "D" OR WITH LONGER THREADS "E", IF SO REQUIRED.



PIPE SIZE	PIPE O.D.	A ROD SIZE	B	C	D	E	MAX. REC. LOAD LBS* FOR SERVICE TEMPS.		APPROX. WEIGHT PER 100
							650°F	750°F	
3	3.96	1/2	4-1/16	4-3/16	4-1/2	3	2260	2020	93
4	4.80	1/2	5	5-1/2	5	3	2260	2020	110
6	6.90	5/8	7-1/16	7-11/16	6-1/4	3-3/4	3620	3230	200
8	9.05	5/8	9-3/16	9-13/16	7-1/2	3-3/4	3620	3230	230
10	11.10	3/4	11-1/4	12	9	4	5420	4830	486
12	13.20	7/8	13-3/8	14-1/4	10-1/2	4-1/2	7540	6730	790
14	15.30	7/8	15-1/2	16-3/8	11	4-1/2	7540	6730	850
16	17.40	7/8	17-9/16	19-5/16	12	4-1/2	7540	6730	935
18	19.50	1	20	21	14	5	9920	8850	1360
20	21.60	1	21-1/8	22-1/8	16	5	9920	8850	1476
24	25.80	1	26-3/8	27-3/8	17-1/2	6	9920	8850	1698
30	32.00	1	32-1/2	33-1/2	20	6	9920	8850	2027
36	38.30	1	38-1/8	39-7/8	23	6	9920	8850	2320



K-118 SQUARE WASHER

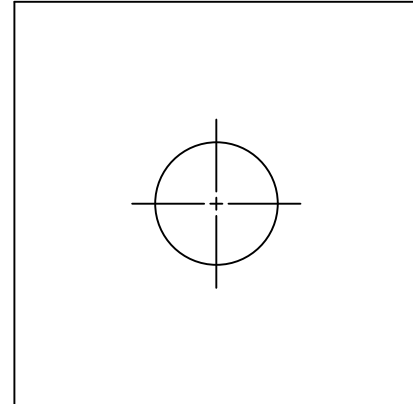
SIZE RANGE - 3/8" THRU 1" BOLT SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - HEAVY DUTY WASHER FOR THE USE ON TOP OF CHANNELS OR ANGLES TO SUPPORT HANGER ROD

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, SIZE AND FINISH



ROD SIZE	HOLE SIZE	STOCK SIZE	APPROX. WEIGHT PER 100
3/8	7/16	1/4" X 2" X 2"	27
1/2	9/16	1/4" X 2" X 2"	27
5/8	11/16	1/4" X 2 1/2" X 2 1/2"	47
3/4	13/16	1/4" X 2 1/2" X 2 1/2"	42
7/8	15/16	3/8" X 3" X 3"	85
1	1-1/8	3/8" X 4" X 4"	100

K-220

INSULATION PROTECTION SHIELD

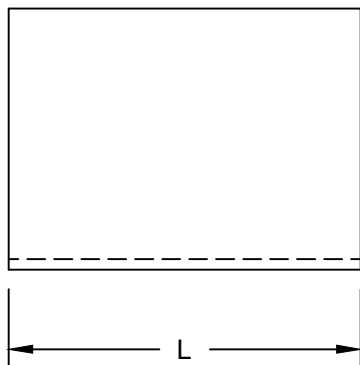
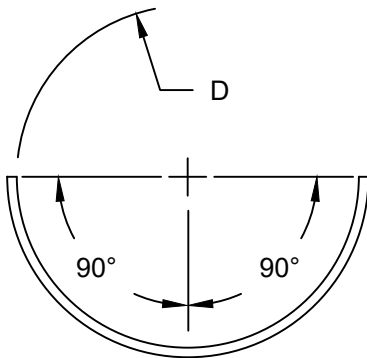
SIZE RANGE - 2-3/8" THRU 28" INSIDE DIAMETER

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - RECOMMENDED FOR OUTSIDE OF FOAM OR FIBER GLASS INSULATION TO PRELUDE CRUSHING OF INSULATION WITHOUT BREAKING THE VAPOR BARRIER. ACTUAL FOAM OR FIBER GLASS INSULATION THICKNESS VARY, VERIFY THAT THE I.D. OF THE SELECTED SHIELD IS SUITABLE FOR THE REQUIRED APPLICATION.

FINISH - MIL-GALVANIZED AND HDG

**ORDER BY - FIGURE NUMBER SHIELD SIZE, GAUGE AND LENGTH
DATA APPLICABLE TO SHIELDS FOR THICKER INSULATION OR LARGER PIPE SIZES IS AVAILABLE UPON REQUEST.**



D SHIELD I.D.	STOCK SIZE	L SHIELD LENGTH	APPROX. WEIGHT PER 100
2.38	18 GA.	12	69
2.88	18 GA.	12	84
3.50	18 GA.	12	99
4.00	18 GA.	12	114
4.50	18 GA.	12	129
5.00	18 GA.	12	142
5.56	18 GA.	12	160
6.64	16 GA.	12	190
7.65	16 GA.	18	268
8.64	16 GA.	18	305
9.64	16 GA.	18	510
10.76	16 GA.	18	563
11.76	14 GA.	24	1018
12.76	14 GA.	24	1108
14.00	14 GA.	24	1190
15.00	14 GA.	24	1274
16.00	14 GA.	24	1359
17.00	14 GA.	24	1450
18.00	12 GA.	24	2124
19.00	12 GA.	24	2241
20.00	12 GA.	24	2358
21.00	12 GA.	24	2475
22.00	12 GA.	24	2592
23.00	12 GA.	24	2709
24.00	12 GA.	24	2862
26.00	12 GA.	24	3060
27.00	12 GA.	24	3177
28.00	12 GA.	24	3303

K-260

PIPE COVERING PROTECTION SADDLE - 1" INSULATION

SIZE RANGE - 3/4" THRU 8" PIPE

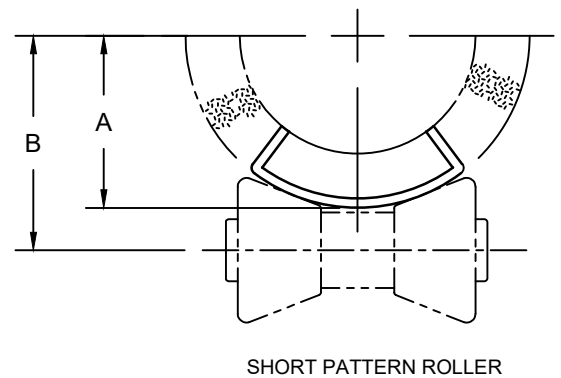
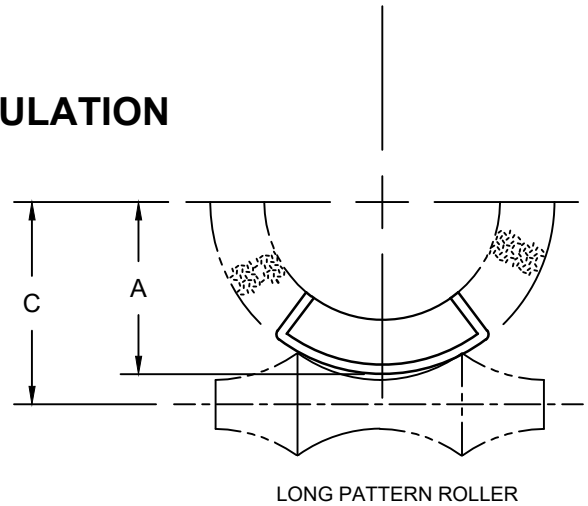
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO PROVIDE BEARING SURFACE, FOR SUPPORT, OUTSIDE OF THE INSULATION, THUS PREVENTING DAMAGE. NOTCHES ARE PROVIDED TO MINIMIZE SADDLE CONTACT WITH PIPE AND PREVENT HEAT LOSS.

NOTE - ALL SADDLES ARE 12" LONG AND COVER 60 DEGREES OF CIRCUMFERENCE OF THE PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	ACTUAL INSULATION THICKNESS	USE K-324	WITH K-321	MAX. REC. LOAD LBS.
3/4	1-13/16	2-5/16	2-7/16	15/16	2-1/2	2	1200
1	1-15/16	2-7/16	2-5/8	1-1/8	3	2-1/2	1200
1-1/4	2-1/16	2-9/16	2-3/4	1-5/16	3	2-1/2	1200
1-1/2	2-3/16	2-3/4	2-15/16	1-1/16	4	3	1200
2	2-7/16	3	3-1/8	1-1/16	4	3-1/2	1200
2-1/2	2-11/16	3-1/4	3-7/16	1-1/16	5	3-1/2	1200
3	3	3-3/4	3-3/4	1-1/16	5	4	1200
3-1/2	3-1/2	4-1/4	4-1/4	1-5/16	6	5	1800
4	3-3/4	4-1/2	4-9/16	1-1/16	6	5	1800
5	4-5/16	5	5-1/8	1-1/16	8	6	1800
6	4-9/16	5-5/16	5-3/8	1	8	8	1800
8	5-5/8	6-5/8	6-5/8	1-1/16	10	10	1800

K-261

PIPE COVERING PROTECTION SADDLE - 1 1/2" INSULATION

SIZE RANGE - 3/4" THRU 36" PIPE

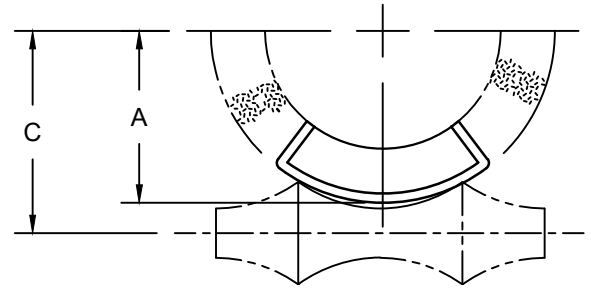
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO PROVIDE BEARING SURFACE, FOR SUPPORT, OUTSIDE OF THE INSULATION, THUS PREVENTING DAMAGE. NOTCHES ARE PROVIDED TO MINIMIZE SADDLE CONTACT WITH PIPE AND PREVENT HEAT LOSS.

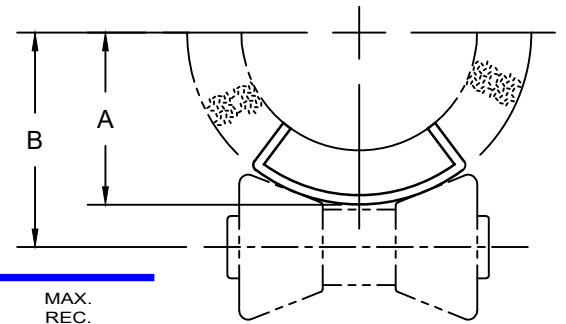
NOTE - ALL SADDLES ARE 12" LONG AND COVER 60 DEGREES OF CIRCUMFERENCE OF THE PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



LONG PATTERN ROLLER



SHORT PATTERN ROLLER

PIPE SIZE	A	B	C	ACTUAL INSULATION THICKNESS	USE WITH K-324	WITH K-321	ROLLER K-320	MAX. REC. LOAD LBS.
3/4	2-5/16	2-7/8	3	1-9/16	3-1/2	3	2 - 3/1/2	1200
1	2-7/16	3	3-1/8	1-9/16	4	3	2 - 3/1/2	1200
1-1/4	2-11/16	3-1/4	3-3/8	1-5/8	5	3-1/2	2 - 3/1/2	1200
1-1/2	2-3/4	3-5/16	3-7/16	1-5/8	5	3-1/2	2 - 3/1/2	1200
2	3	3-11/16	3-3/4	1-5/8	5	4	2 - 3/1/2	1200
2-1/2	3-7/16	4-1/4	4-3/16	1-7/8	6	5	4-6	1200
3	3-3/4	4-1/2	4-9/16	1-9/16	6	5	4-6	1800
3-1/2	3-15/16	4-15/16	4-3/4	1-13/16	8	6	4-6	1800
4	4-3/16	5	5	1-9/16	8	6	4-6	1800
5	4-3/4	5-9/16	5-9/16	1-9/16	8	8	4-6	1800
6	5-1/16	5-7/8	5-15/16	1-1/2	10	8	8-10	1800
8	6-3/16	7-1/4	7-1/8	1-9/16	12	10	8-10	1800
10	7-1/4	8-1/2	8-5/16	1-5/8	14	12	8-10	1800
12	8-3/16	9-11/16	9-5/16	1-5/8	16	14	12-14	5000
14	8-13/16	10-5/16	10-1/16	1-1/2	18	16	12-14	5000
16	9-3/4	11-3/8	11-1/16	1-1/2	20	18	16-20	5000
18	10-3/4	12-9/16	12-1/16	1-1/2	24	20	16-20	5000
20	11-3/4	13-5/8	12-1/8	1-1/2	24	24	24	7200
24	13-3/4	16	15-5/16	1-1/2	-	30	30	7200
30	16-3/4	19-1/4	18-1/2	1-1/2	-	-	36-42	7200
36	20-3/16	19-11/16	21-1/16	1-1/2	-	-	36-42	7200

K-262

PIPE COVERING PROTECTION SADDLE - 2" INSULATION

SIZE RANGE - 3/4" THRU 36" PIPE

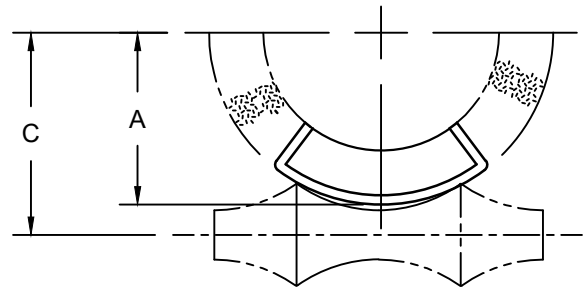
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO PROVIDE BEARING SURFACE, FOR SUPPORT, OUTSIDE OF THE INSULATION, THUS PREVENTING DAMAGE. NOTCHES ARE PROVIDED TO MINIMIZE SADDLE CONTACT WITH PIPE AND PREVENT HEAT LOSS.

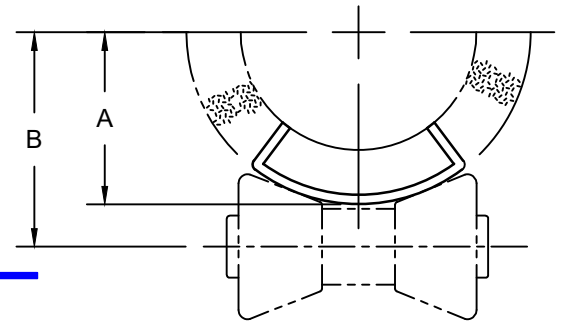
NOTE - ALL SADDLES ARE 12" LONG AND COVER 60 DEGREES OF CIRCUMFERENCE OF THE PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



LONG PATTERN ROLLER



SHORT PATTERN ROLLER

PIPE SIZE	A	B	C	ACTUAL INSULATION THICKNESS	USE WITH K-324	WITH K-321	MAX. REC. LOAD LBS.
3/4	2-13/16	3-1/2	3-9/16	2-1/16	5	4	1200
1	2-15/16	3-11/16	3-11/16	2-1/16	5	4	1200
1-1/4	3-1/8	3-7/8	3-7/8	2-1/16	5	4	1200
1-1/2	3-7/16	4-1/8	4-3/16	2-5/16	6	5	1800
2	3-5/8	4-5/16	4-7/16	2-5/16	6	5	1800
2-1/2	3-15/16	4-11/16	4-3/4	2-5/16	6	6	1800
3	4-1/4	5	5-1/16	2-1/16	8	6	1800
3-1/2	4-7/16	5-3/16	5-1/4	2-5/16	8	8	1800
4	4-11/16	5-1/2	5-1/2	2-1/16	8	8	1800
5	5-3/16	6	6-1/8	2-1/16	10	8	1800
6	5-9/16	6-1/2	6-1/2	2-1/16	10	10	1800
8	6-9/16	7-5/8	7-9/16	2-1/16	12	10	1800
10	7-11/16	9-1/8	8-7/8	2-1/8	16	16	1800
12	8-13/16	10-1/4	10-3/16	2-1/8	18	16	5000
14	9-7/16	10-15/16	10-13/16	2	18	18	5000
16	10-5/16	12	11-3/4	2	20	18	5000
18	11-5/16	13	12-3/4	2	24	20	7200
20	12-5/16	14-3/16	13-3/4	2	24	24	7200
24	14-5/16	16-9/16	15-7/8	2	-	30	7200
30	17-5/16	20	19-1/8	2	-	-	7200
36	20-7/16	-	22-3/8	2	-	-	7200

K-263

PIPE COVERING PROTECTION SADDLE - 2 1/2" INSULATION

SIZE RANGE - 3/4" THRU 36" PIPE

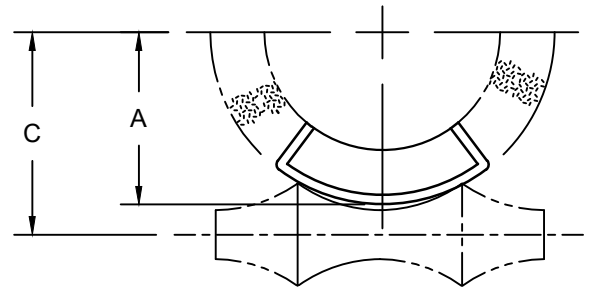
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO PROVIDE BEARING SURFACE, FOR SUPPORT, OUTSIDE OF THE INSULATION, THUS PREVENTING DAMAGE. NOTCHES ARE PROVIDED TO MINIMIZE SADDLE CONTACT WITH PIPE AND PREVENT HEAT LOSS.

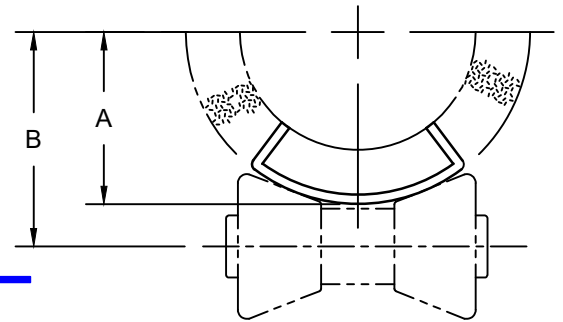
NOTE - ALL SADDLES ARE 12" LONG AND COVER 60 DEGREES OF CIRCUMFERENCE OF THE PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



LONG PATTERN ROLLER



SHORT PATTERN ROLLER

PIPE SIZE	A	B	C	ACTUAL INSULATION THICKNESS	USE K-324	WITH K-321	MAX. REC. LOAD LBS.
3/4	2-13/16	3-1/2	3-9/16	2-1/16	5	4	1200
1	2-15/16	3-11/16	3-11/16	2-1/16	5	4	1200
1-1/4	3-1/8	3-7/8	3-7/8	2-1/16	5	4	1200
1-1/2	3-7/16	4-1/8	4-3/16	2-5/16	6	5	1800
2	3-5/8	4-5/16	4-7/16	2-5/16	6	5	1800
2-1/2	3-15/16	4-11/16	4-3/4	2-5/16	6	6	1800
3	4-1/4	5	5-1/16	2-1/16	8	6	1800
3-1/2	4-7/16	5-3/16	5-1/4	2-5/16	8	8	1800
4	4-11/16	5-1/2	5-1/2	2-1/16	8	8	1800
5	5-3/16	6	6-1/8	2-1/16	10	8	1800
6	5-9/16	6-1/2	6-1/2	2-1/16	10	10	1800
8	6-9/16	7-5/8	7-9/16	2-1/16	12	10	1800
10	7-11/16	9-1/8	8-7/8	2-1/8	16	16	1800
12	8-13/16	10-1/4	10-3/16	2-1/8	18	16	5000
14	9-7/16	10-15/16	10-13/16	2	18	18	5000
16	10-5/16	12	11-3/4	2	20	18	5000
18	11-5/16	13	12-3/4	2	24	20	7200
20	12-5/16	14-3/16	13-3/4	2	24	24	7200
24	14-5/16	16-9/16	15-7/8	2	-	30	7200
30	17-5/16	20	19-1/8	2	-	-	7200
36	20-7/16	-	22-3/8	2	-	-	7200

K-264

PIPE COVERING PROTECTION SADDLE - 3" INSULATION

SIZE RANGE - 1 1/2" THRU 36" PIPE

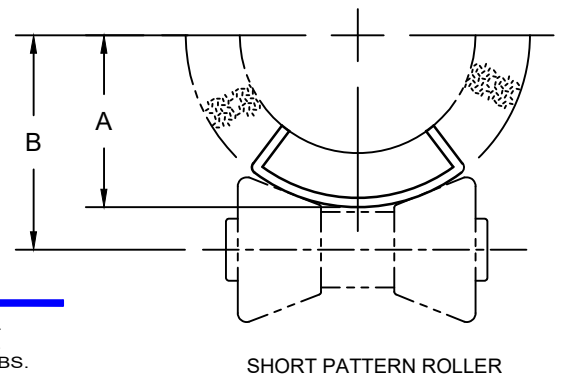
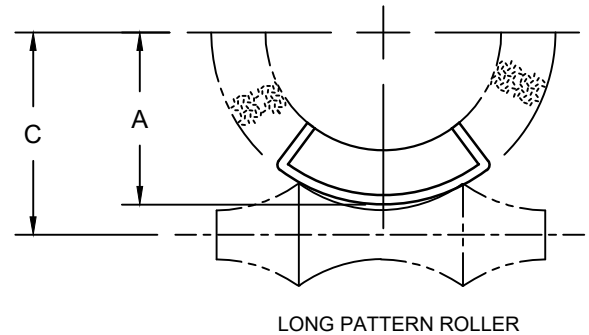
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO PROVIDE BEARING SURFACE, FOR SUPPORT, OUTSIDE OF THE INSULATION, THUS PREVENTING DAMAGE. NOTCHES ARE PROVIDED TO MINIMIZE SADDLE CONTACT WITH PIPE AND PREVENT HEAT LOSS.

NOTE - ALL SADDLES ARE 12" LONG AND COVER 60 DEGREES OF CIRCUMFERENCE OF THE PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	ACTUAL INSULATION THICKNESS	USE K-324	WITH K-321	MAX. REC. LOAD LBS.
1-1/2	4-1/2	5-3/8	5-5/16	3-5/16	8	8	1800
2	4-3/4	5-3/8	5-9/16	3-5/16	8	8	1800
2-1/2	5	5-7/8	5-13/16	3-5/16	10	8	1800
3	5-5/16	6-1/4	6-1/4	3-1/16	10	8	1800
3-1/2	5-1/2	6-7/16	6-3/8	3-3/8	10	10	1800
4	5-3/4	6-11/16	6-11/16	3-1/8	10	10	1800
5	6-5/16	7-1/4	7-1/4	3-1/8	12	10	1800
6	6-5/8	7-3/4	7-3/4	3-1/16	12	12	1800
8	7-5/8	8-7/8	8-7/8	3-1/8	16	12	1800
10	8-11/16	10-1/8	10-1/16	3-1/8	18	16	1800
12	9-11/16	11-5/16	11-1/16	3-1/8	20	18	5000
14	10-5/16	12	11-3/4	3	20	18	5000
16	11-5/16	13-13/16	12-11/16	3	24	24	7200
18	12-5/16	14-13/16	13-11/16	3	24	24	7200
20	13-5/16	15-5/16	15-7/8	3	-	24	7200
24	15-5/16	17-9/16	16-15/16	3	-	30	7200
30	18-5/16	-	20-5/16	3	-	-	7200
36	21-5/16	-	23-5/16	3	-	-	7200

K-265

PIPE COVERING PROTECTION SADDLE - 4" INSULATION

SIZE RANGE - 4" THRU 36" PIPE

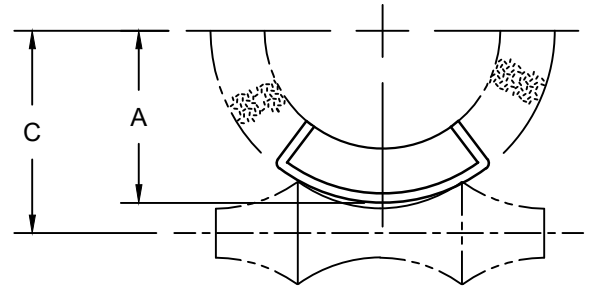
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO PROVIDE BEARING SURFACE, FOR SUPPORT, OUTSIDE OF THE INSULATION, THUS PREVENTING DAMAGE. NOTCHES ARE PROVIDED TO MINIMIZE SADDLE CONTACT WITH PIPE AND PREVENT HEAT LOSS.

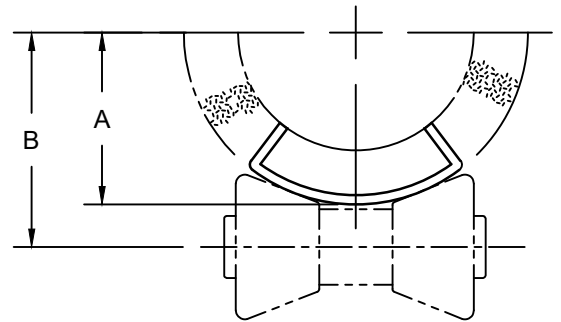
NOTE - ALL SADDLES ARE 12" LONG AND COVER 60 DEGREES OF CIRCUMFERENCE OF THE PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

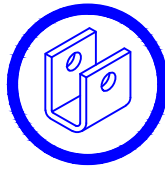


LONG PATTERN ROLLER



SHORT PATTERN ROLLER

PIPE SIZE	A	B	C	ACTUAL INSULATION THICKNESS	USE K-324	WITH K-321	ROLLER K-320	MAX. REC. LOAD LBS.
4	6-5/8	7-3/4	7-9/16	4-3/16	12	10	8-10	1800
5	7-3/16	8-1/8	8-3/16	4-3/16	14	12	8-10	1800
6	7-11/16	9-1/8	8-7/8	4-3/16	16	14	12-14	1800
8	8-11/16	10-1/8	10	4-3/16	18	16	12-14	1800
10	9-11/16	11-5/16	11-1/16	4-1/8	20	18	16-20	1800
12	10-3/4	12-9/16	12-1/4	4-1/8	-	20	16-20	5000
14	11-3/8	13-1/4	12-7/8	4	-	20	16-20	5000
16	12-5/16	14-3/16	13-3/4	4	-	24	24	7200
18	13-5/16	15-3/16	14-3/4	4	-	24	24	7200
20	14-5/16	16-9/16	15-13/16	4	-	30	30	7200
24	16-5/16	18-7/8	17-13/16	4	-	30	30	7200
30	19-5/16	-	21-5/16	4	-	-	36-42	7200
36	22-5/16	-	24-5/8	4	-	-	36-42	7200



K-304

WELD BEAM ATTACHMENT

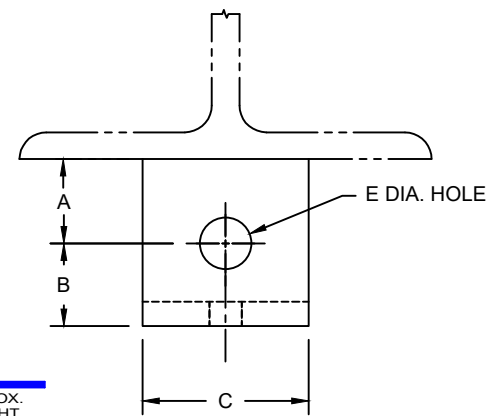
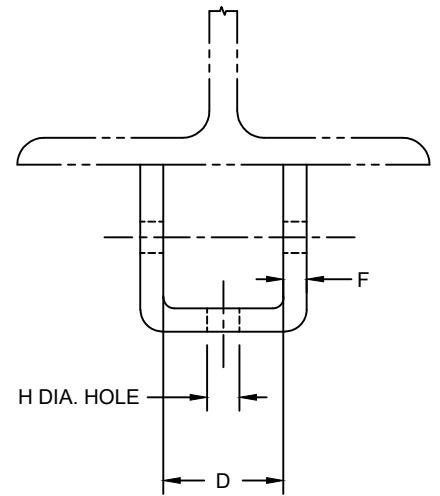
SIZE RANGE - 3/8" THRU 3-1/2" ROD

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

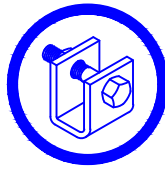
FUNCTION - DESIGNED FOR USE IN EITHER UPRIGHT OR INVERTED POSITION. BOLT REQUIRED WHEN WELDED TO STEEL MEMBER IN UPRIGHT POSITION.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



ROD SIZE	A	B	C	D	E	F	H	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	2	7/8	2	1-1/4	9/16	1/4	7/16	510	86
1/2	2	7/8	2	1-1/4	11/16	1/4	9/16	940	86
5/8	2	1	2	1-1/4	13/16	1/4	11/16	1510	86
3/4	2	1-1/8	2-1/2	1-1/2	15/16	3/8	13/16	2260	174
7/8	2	1-1/4	2-1/2	2	1-1/8	3/8	15/16	3150	232
1	3	1-1/2	3	2	1-1/4	1/2	1-1/8	4150	394
1-1/4	3	2	4	2-1/2	1-5/8	5/8	1-3/8	5660	738
1-1/2	4	2-1/2	5	3	1-7/8	3/4	1-5/8	9700	1449
1-3/4	5	2-3/4	5	3-3/4	2-1/8	3/4	1-7/8	14000	1747
2	4	3-1/4	6	3-3/4	2-3/8	3/4	2-1/8	18460	2201
2-1/4	5	3-1/2	6	4-1/4	2-5/8	3/4	2-3/8	24260	2523
2-1/2	5	3-3/4	6	4-1/2	2-7/8	3/4	2-5/8	29880	2552
2-3/4	6	4	6	4-3/4	3-1/8	3/4	2-7/8	37066	2875
3	6-1/4	4	7	5-1/4	3-3/8	3/4	3-1/8	45085	3250
3-1/4	7	4-1/2	7	5-1/2	3-5/8	3/4	3-3/8	53906	4500
3-1/2	7-1/2	4-1/2	8	5-3/4	3-7/8	3/4	3-5/8	63493	5320



K-305

WELD BEAM ATTACHMENT WITH BOLT & NUT

SIZE RANGE - 3/8" THRU 3-1/2" ROD

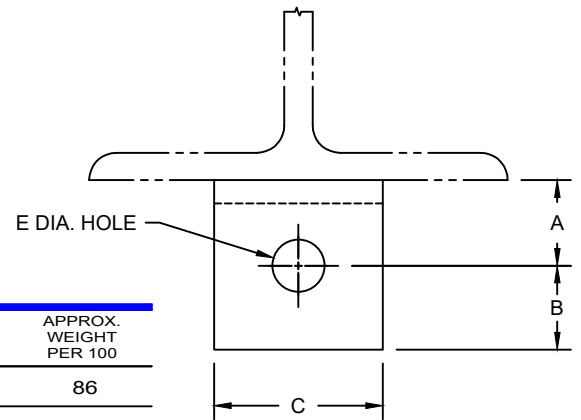
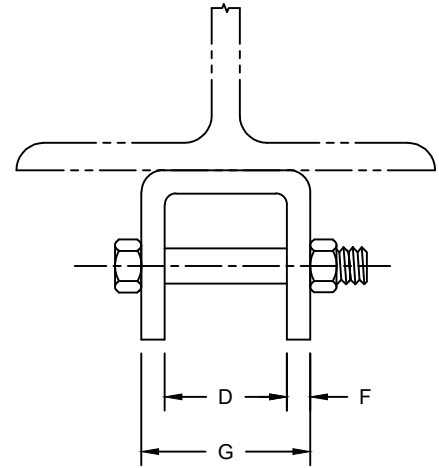
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED FOR USE IN EITHER UPRIGHT OR INVERTED POSITION. BOLT REQUIRED WHEN WELDED TO STEEL MEMBER IN UPRIGHT POSITION.

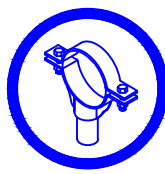
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

NOTE: BOLT AND NUT INCLUDED



ROD SIZE	A	B	C	D	E	F	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	2	7/8	2	1-1/4	9/16	1/4	510	86
1/2	2	7/8	2	1-1/4	11/16	1/4	940	86
5/8	2	1	2	1-1/4	13/16	1/4	1510	86
3/4	2	1-1/8	2-1/2	1-1/2	15/16	3/8	2260	174
7/8	2	1-1/4	2-1/2	2	1-1/8	3/8	3150	232
1	3	1-1/2	3	2	1-1/4	1/2	4150	394
1-1/4	3	2	4	2-1/2	1-5/8	5/8	5660	738
1-1/2	4	2-1/2	5	3	1-7/8	3/4	9700	1449
1-3/4	5	2-3/4	5	3-3/4	2-1/8	3/4	14000	1747
2	4	3-1/4	6	3-3/4	2-3/8	3/4	18460	2201
2-1/4	5	3-1/2	6	4-1/4	2-5/8	3/4	24260	2523
2-1/2	5	3-3/4	6	4-1/2	2-7/8	3/4	29880	2552
2-3/4	6	4	6	4-3/4	3-1/8	3/4	37066	2875
3	6-1/4	4	7	5-1/4	3-3/8	3/4	45085	3250
3-1/4	7	4-1/2	7	5-1/2	3-5/8	3/4	53906	4500
3-1/2	7-1/2	4-1/2	8	5-3/4	3-7/8	3/4	63493	5320



K-311

PIPE SADDLE WITH STRAP

SIZE RANGE - 4" THRU 36" PIPE

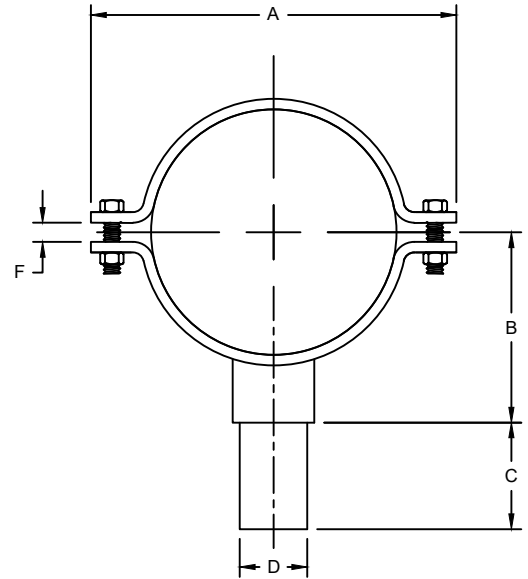
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED TO SUPPORT HORIZONTAL PIPE FROM FLOOR STANCHION. TOP CLAMP HOLDS PIPE SECURELY TO SADDLE. TO COMPLETE FLOOR STANCHION USE WITH K-316 STAND PIPE. FOR COMPLETE FLOOR STANCHION WITH VERTICAL ADJUSTMENT USE K-319 THREADED PIPE ADJUSTER AND K-316T THREADED PIPE STAND.

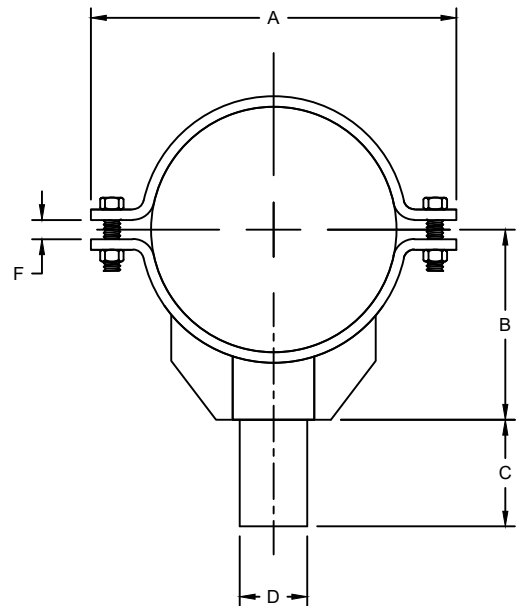
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

PIPE SIZE	A	B	C	D	D WILL FIT INTO		BOLT SIZE
					SCH.40 PIPE	F	
4	7	3-13/16	2	2 3/8	2-1/2	3/4	1/2
5	8-5/8	4-3/16	2	2-3/8	2-1/2	3/4	1/2
6	11	4-7/8	2	2-3/8	2-1/2	7/8	5/8
8	12-7/8	6-15/16	2	2-3/8	2-1/2	1	5/8
10	16-1/4	7-15/16	2	2-3/8	2-1/2	1	3/4
12	18-1/4	9-1/8	3	2-3/8	2-1/2	1	3/4
14	19-3/4	10-1/2	3	2-7/8	3	1-1/8	3/4
16	22-3/4	11-1/2	3	2-7/8	3	1-1/8	3/4
18	25-7/8	13-1/2	4	3-1/2	4	1-1/4	3/4
20	27-3/4	14-1/2	4	3-1/2	4	1-3/8	3/4
22	29-3/4	15-1/2	4	3-1/2	4	1-3/8	3/4
24	33	17-1/2	4	3-1/2	4	1-5/8	7/8
26	35	18-1/2	4	3-1/2	4	2	7/8
30	41-3/8	20-5/8	4	3-1/2	4	2	7/8
32	43-3/8	21-5/8	4	3-1/2	4	2	7/8
36	47-3/8	23-5/8	4	3-1/2	4	2	7/8



4" AND 6" PIPE SIZE



8" THRU 36" PIPE SIZE



K-312

ADJUSTABLE PIPE SUPPORT

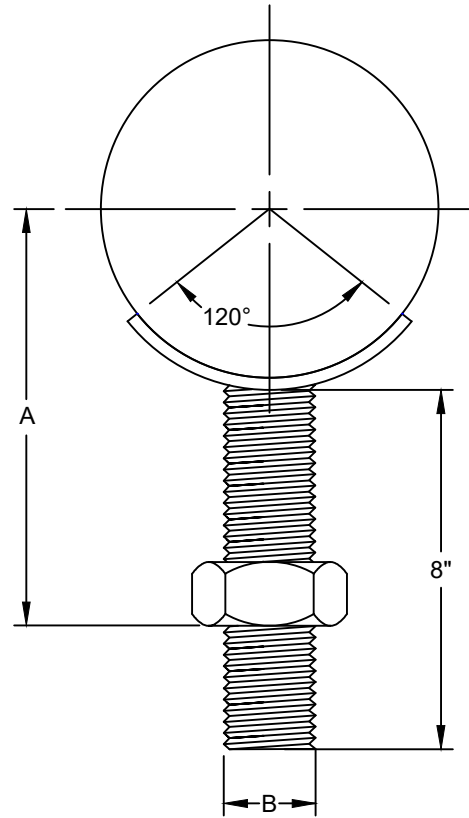
SIZE RANGE - 2" THRU 12" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

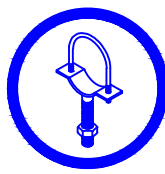
FUNCTION - STANCHION TYPE SUPPORT WHERE VERTICAL ADJUSTMENT IS REQUIRED.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



STAND PIPE SIZE	MAX. O.D. PIPE	A MIN.	A MAX.	B	MAX. REC. LOAD LBS	APPROX. WEIGHT PER 100
2	2-3/8	2-3/4	6	7/8	1500	210
2-1/2	2-7/8	3-1/4	6-1/2	7/8	1500	219
3	4	3-1/2	6-3/4	7/8	1500	240
3-1/2	4	3-1/2	6-3/4	7/8	1500	240
4	4-7/8	4-1/4	7-1/2	1	2500	340
5	5-5/8	4-1/2	7-3/4	1	2500	360
6	7	5-5/8	8-3/8	1-1/4	4000	580
8	9-1/8	6-3/4	9-1/2	1-1/4	4000	640
10	11-1/8	8	10	1-1/4	5500	1060
12	13-1/2	9-1/4	11-1/4	1-1/4	5500	1060



K-313

ADJUSTABLE PIPE SUPPORT WITH U-BOLT

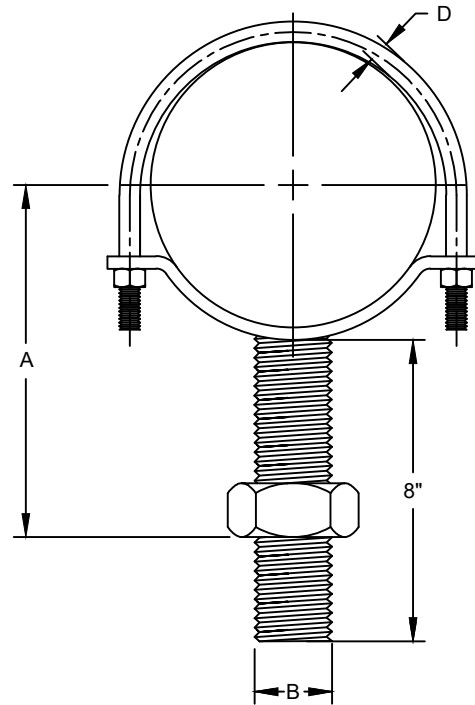
SIZE RANGE - 2" THRU 12" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

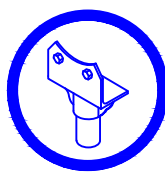
FUNCTION - STANCHION TYPE SUPPORT WITH YOKE WHERE VERTICAL ADJUSTMENT IS REQUIRED.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



STAND PIPE SIZE	MAX. O.D. PIPE	A MIN.	A MAX.	B	D	MAX. REC. LOAD LBS	APPROX. WEIGHT PER 100
2	2-3/8	2-3/4	6	7/8	3/8	1500	1413
2-1/2	2-7/8	3-1/4	6-1/2	7/8	3/8	1500	1453
3	4	3-1/2	6-3/4	7/8	1/2	1500	1628
3-1/2	4	3-1/2	6-3/4	7/8	1/2	1500	1913
4	4-7/8	4-1/4	7-1/2	1	1/2	2500	2193
5	5-5/8	4-1/2	7-3/4	1	1/2	2500	2593
6	7	5-5/8	8-3/8	1-1/4	5/8	4000	4150
8	9-1/8	6-3/4	9-1/2	1-1/4	5/8	4000	4445
10	11-1/8	8	10	1-1/4	3/4	5500	6208
12	13-1/2	9-1/4	11-1/4	1-1/4	7/8	5500	6557



K-314 FLANGE SUPPORT

SIZE RANGE - 4" THRU 36" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

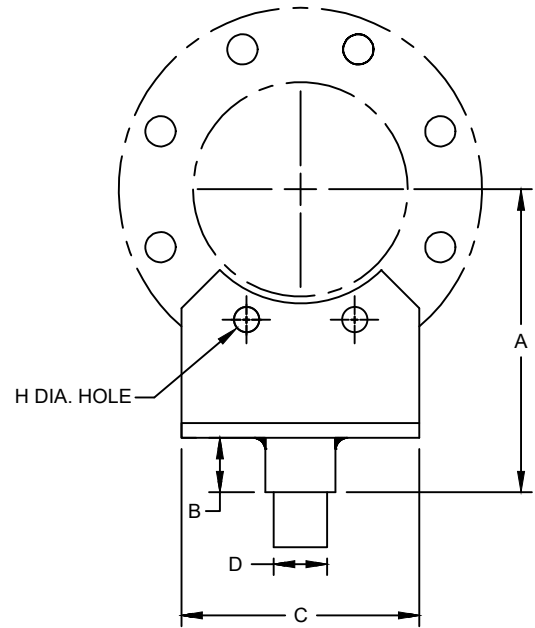
FUNCTION - DESIGNED TO SUPPORT 125 LB CAST IRON AND 150 LB. FORGED STEEL FLANGED CONNECTIONS. (CONSULT FACTORY FOR OTHER FLANGED BOLT PATTERNS).

TO COMPLETE FLOOR STANCHION, K-316 STAND PIPE.
FOR COMPLETE FLOOR STANCHION WITH VERTICAL ADJUSTMENT USE K-319 THREADED PIPE WITH ADJUSTER AND K-316T THREADED PIPE STAND.

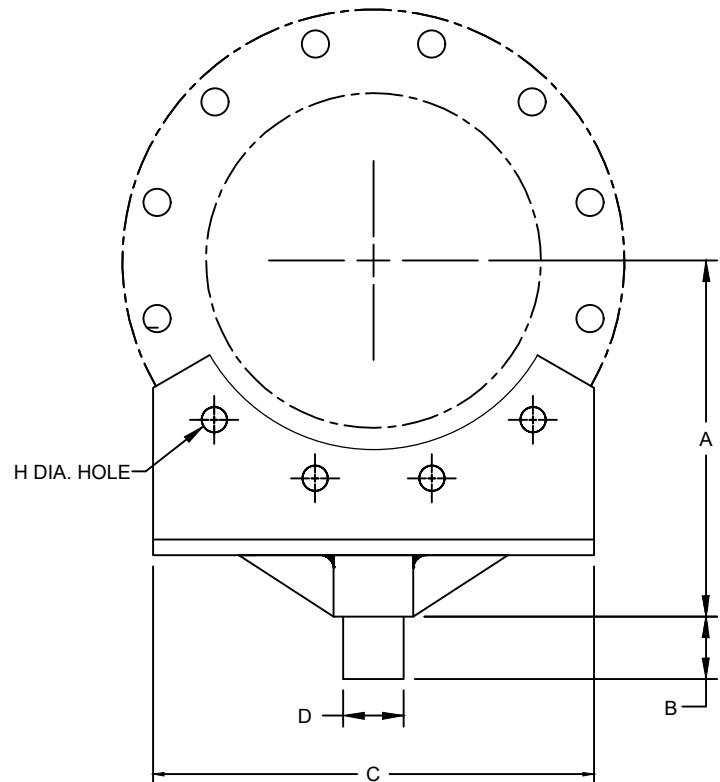
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

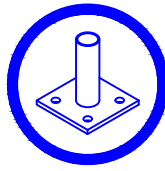
PIPE SIZE	A	B	C	D	D WILL FIT INTO SCH.40 PIPE	H
4	6-7/8	2	6-3/8	2 3/8	2-1/2	3/4
5	7-3/8	2	7-1/16	2-3/8	2-1/2	7/8
6	7-7/8	2	7-3/4	2-3/8	2-1/2	7/8
8	10-1/8	2	9-9/16	2-3/8	2-1/2	7/8
10	11-3/8	2	8	2-3/8	2-1/2	1
12	12-7/8	2	9-1/2	2-3/8	2-1/2	1
14	15	3	18-3/16	2-7/8	3	1-1/8
16	16-1/4	3	16-5/8	2-7/8	3	1-1/8
18	18	4	17-11/16	3-1/2	4	1-1/4
20	19-1/4	4	15-3/4	3-1/2	4	1-1/4
22	20-1/4	4	16-5/16	3-1/2	4	1-3/8
24	22-1/2	4	18-3/8	3-1/2	4	1-3/8
26	23-5/8	4	17-1/8	3-1/2	4	1-3/8
30	25-7/8	4	16-3/8	3-1/2	4	1-3/8
32	27-3/8	4	17-5/8	3-1/2	4	1-5/8
36	29-1/2	4	17-1/2	3-1/2	4	1-5/8



4" THRU 12" FLANGE SIZE



14" THRU 36" FLANGE SIZE



K-316

PIPE STAND

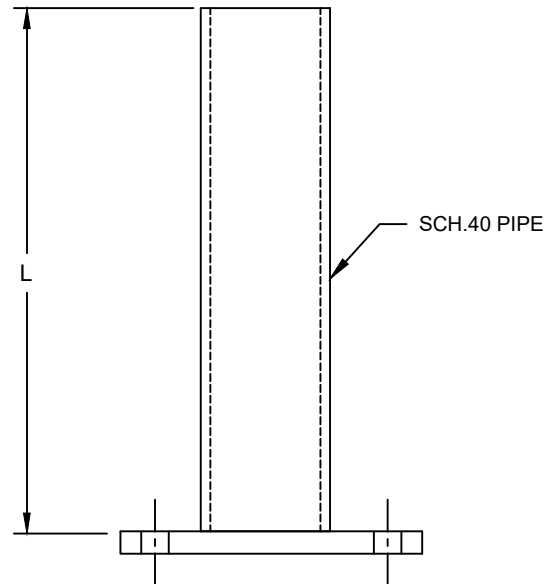
SIZE RANGE - 1" THRU 6" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - K-316 PROVIDES A SUPPORT BASE FOR VARIOUS APPLICATIONS.

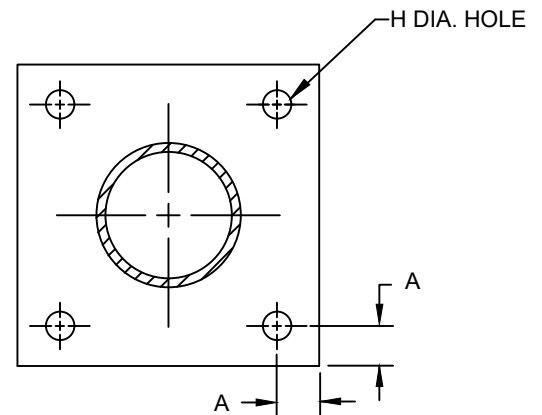
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

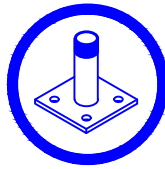
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



STAND PIPE SIZE	A	H	PLATE SIZE	APPROX. WEIGHT PER 100
1	1	7/16	1/4 X 5 SQUARE	416
1-1/4	1	7/16	1/4 X 6 SQUARE	474
1-1/2	1	7/16	1/4 X 6 SQUARE	519
2	1	7/16	3/8 X 6 SQUARE	562
2-1/2	1-1/8	9/16	1/2 X 8 SQUARE	880
3	1-1/8	9/16	1/2 X 9 SQUARE	905
4	1-1/4	11/16	5/8 X 11 SQUARE	1627
6	1-1/2	13/16	3/4 X 13 1/2 SQUARE	2976

* WEIGHT IS BASED ON "L" DIMENSION OF 1'-0"





K-316T

THREADED PIPE STAND

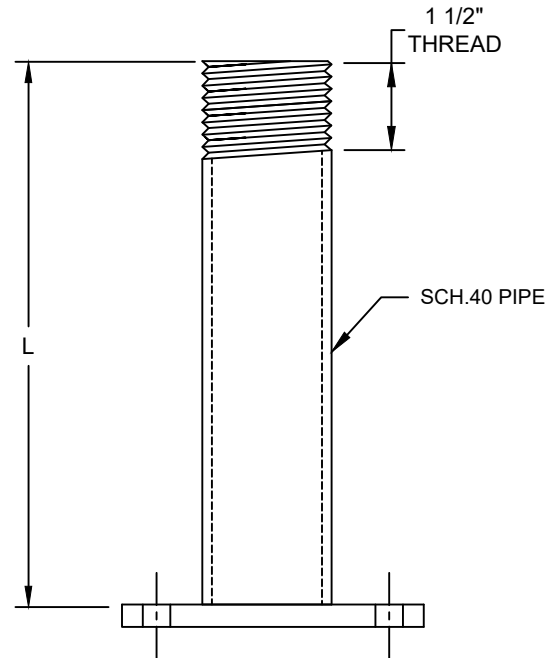
SIZE RANGE - 1" THRU 6" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - K-316T PROVIDES A THREADED SUPPORT BASE FOR VARIOUS ADJUSTABLE APPLICATIONS.

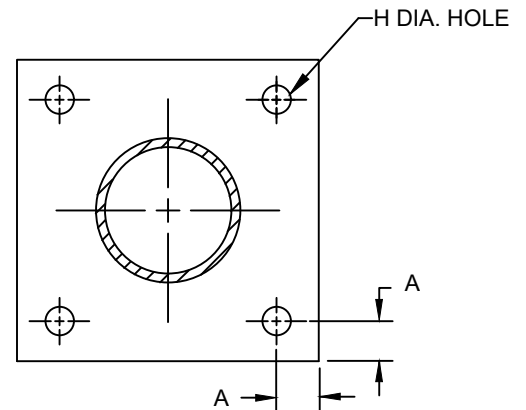
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



STAND PIPE SIZE	A	H	PLATE SIZE	APPROX. WEIGHT PER 100
1	1	7/16	1/4 X 5 SQUARE	416
1-1/4	1	7/16	1/4 X 6 SQUARE	474
1-1/2	1	7/16	1/4 X 6 SQUARE	519
2	1	7/16	3/8 X 6 SQUARE	562
2-1/2	1-1/8	9/16	1/2 X 8 SQUARE	880
3	1-1/8	9/16	1/2 X 9 SQUARE	905
4	1-1/4	11/16	5/8 X 11 SQUARE	1627
6	1-1/2	13/16	3/4 X 13 1/2 SQUARE	2976

* WEIGHT IS BASED ON "L" DIMENSION OF 1'-0"





K-317 PIPE SADDLE

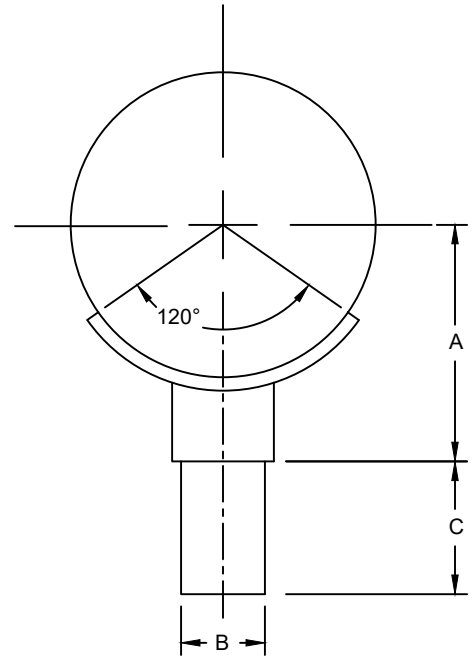
SIZE RANGE - 1 1/2" THRU 36" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

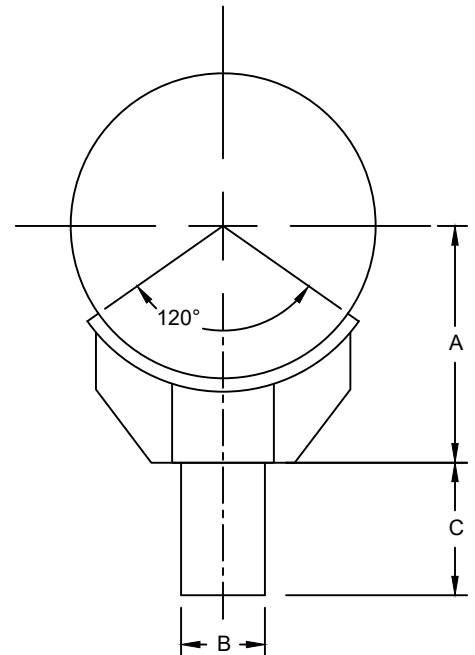
FUNCTION - TO SUPPORT HORIZONTAL PIPE FROM FLOOR STANCHION. STANCHIONS PIPE MUST FIT OVER PIPE SADDLE SHANK. USE A FLOOR FLANGE OR STEEL PLATE WELDED FOR SECURING STANCHION TO FLOOR.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



1 1/2" THRU 6" PIPE SIZE



8" THRU 36" PIPE SIZE

PIPE SIZE	MAX O.D. OF PIPE	A	B	C	B WILL FIT INTO SCH.40 PIPE	APPROX. WEIGHT PER 100
1-1/2	2	2-1/4	1	2	1	127
2	2-3/8	2-7/16	1	2	1	131
2-1/2	2-7/8	2-11/16	1-1/2	2	1-1/2	149
3	3-1/2	3	1-1/2	2	1-1/2	162
3-1/2	4	3-1/4	1-1/2	2	1-1/2	178
4	4-7/8	3-13/16	2-3/8	3	2-1/2	455
5	5-5/8	4-3/16	2-3/8	3	2-1/2	489
6	7	4-7/8	2-3/8	3	2-1/2	550
8	9-1/8	6-15/16	2-3/8	4	2-1/2	790
10	11-1/8	7-15/16	2-3/8	4	2-1/2	872
12	13-1/2	9-1/8	2-3/8	4	2-1/2	1007
14	14	10-1/2	2-7/8	4	3	1541
16	16	11-1/2	2-7/8	4	3	1680
18	18	13-1/2	3-3/4	4	4	2220
20	20	14-1/2	3-3/4	4	4	2415
22	22	15-1/2	3-3/4	4	4	2600
24	24	17-1/2	3-3/4	4	4	2970
26	26	18-1/2	3-3/4	4	4	3172
30	30	20-5/8	3-3/4	4	4	4047
32	32	21-5/8	3-3/4	4	4	4230
36	36	23-5/8	3-3/4	4	4	4608

K-317A

PIPE SADDLE AND THREADED PIPE ADJUSTER

SIZE RANGE - 2 1/2" THRU 36" PIPE SIZE

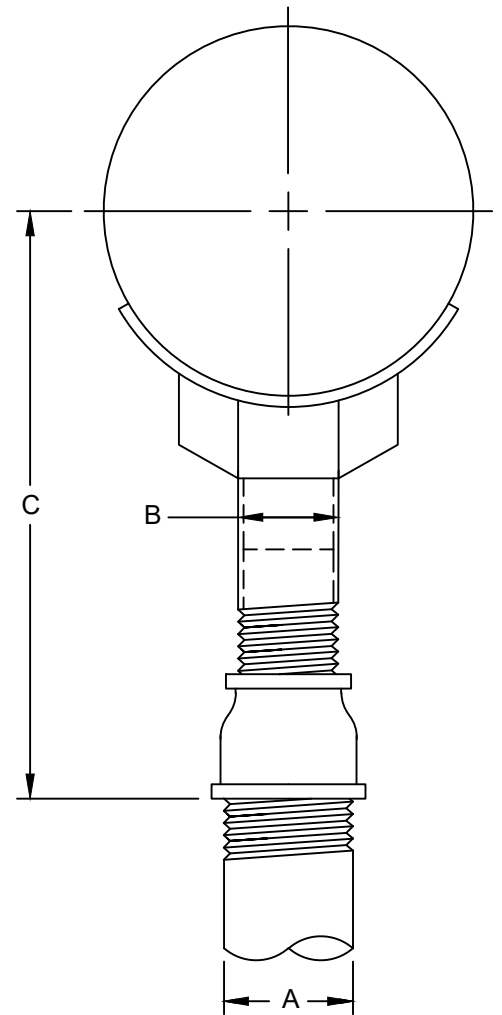
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - TO SUPPORT HORIZONTAL PIPE FROM FLOOR STANCHION. STANCHION PIPE FITS OVER STRAIGHT THREADED SHANK THAT PERMITS ADJUSTMENT AFTER INSTALLATION.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE, ADJUSTER SIZE AND FINISH

NOTE - ORDER WITH KUMAR K-316T FOR COMPLETE STANCHION SUPPORT



STAND PIPE SIZE	A PIPE SIZE	B PIPE SIZE	C MIN.	C MAX.	APPROX. WEIGHT PER 100
2-1/2	2-1/2	1-1/2	7	11-1/2	453
3	2-1/2	1-1/2	7-5/16	11-13/16	466
3-1/2	2-1/2	1-1/2	7-9/16	12-1/16	482
4	3	2-1/2	10-1/4	14-3/4	1248
5	3	2-1/2	11-1/16	15-9/16	1282
6	3	2-1/2	11-9/16	16-1/16	1343
8	3	2-1/2	13-9/16	18-1/16	1583
10	3	2-1/2	14-5/8	19-1/8	1665
12	3	2-1/2	15-5/8	20-1/8	1800
14	4	3	18-7/8	23-3/8	2761
16	4	3	19-7/8	24-3/8	2900
18	6	4	22-1/4	26-3/4	4468
20	6	4	23-1/4	27-3/4	4470
22	6	4	24-1/4	28-3/4	4848
24	6	4	26-1/2	31	5218
26	6	4	27-1/2	32	5420
30	6	4	29-5/8	34-1/8	6295
32	6	4	30-5/8	35-1/8	6478
36	6	4	32-5/8	37-1/8	6856



K-318

PIPE SADDLE WITH U-BOLT

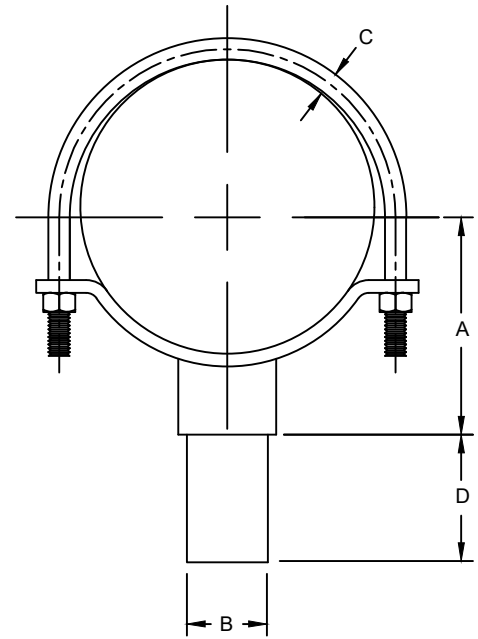
SIZE RANGE - 4" THRU 36" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

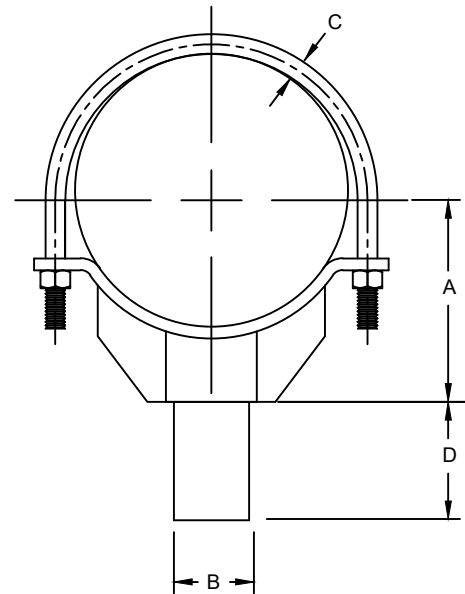
FUNCTION - EQUIVALENT TO K-317 EXCEPT "U" BOLT PROVIDED FOR RETAINING PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



4" AND 6" PIPE SIZE



8" THRU 36" PIPE SIZE

PIPE SIZE	MAX O.D. OF PIPE	A	B	C	B WILL FIT INTO SCH.40 PIPE	APPROX. WEIGHT PER 100
4	4-7/8	3-13/16	2-3/8	1/2	2-1/2	620
5	5-5/8	4-3/16	2-3/8	1/2	2-1/2	660
6	7	4-7/8	2-3/8	5/8	2-1/2	835
8	9-1/8	6-15/16	2-3/8	5/8	2-1/2	1120
10	11-1/8	7-15/16	2-3/8	3/4	2-1/2	1400
12	13-1/2	9-1/8	2-3/8	7/8	2-1/2	1800
14	14	10-1/2	2-7/8	7/8	3	2930
16	16	11-1/2	2-7/8	7/8	3	3225
18	18	13-1/2	3-3/4	7/8	4	3960
20	20	14-1/2	3-3/4	1	4	4309
22	22	15-1/2	3-3/4	1	4	4660
24	24	17-1/2	3-3/4	1	4	5188
26	26	18-1/2	3-3/4	1	4	5520
30	30	20-5/8	3-3/4	1	4	6948
32	32	21-5/8	3-3/4	1	4	7327
36	36	23-5/8	3-3/4	1	4	8046



K-318A

PIPE SADDLE WITH U-BOLT AND THREADED PIPE ADJUSTER

SIZE RANGE - 4" THRU 36" PIPE SIZE

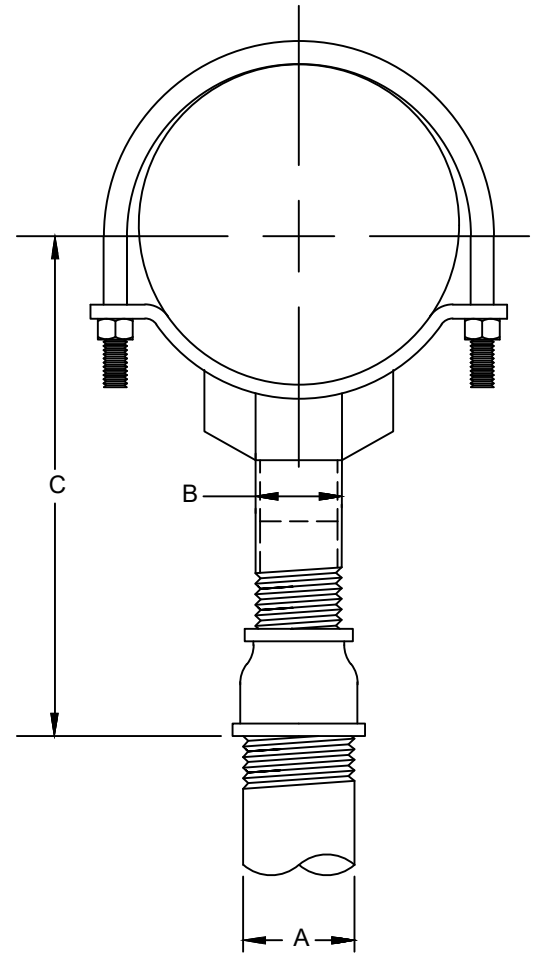
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - TO SUPPORT HORIZONTAL PIPE FROM FLOOR STANCHION WITH "U" BOLT TO RETAIN PIPE. STANCHION PIPE MUST FIT OVER STRAIGHT THREADED SHANK THAT PERMITS ADJUSTMENT AFTER INSTALLATION.

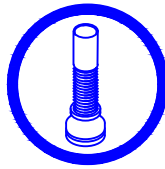
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE, ADJUSTER SIZE AND FINISH

NOTE - ORDER WITH KUMAR K-316T FOR COMPLETE STANCHION SUPPORT



STAND PIPE SIZE	A PIPE SIZE	B PIPE SIZE	C MIN.	C MAX.	APPROX. WEIGHT PER 100
4	3	2-1/2	10-1/4	14-3/4	1413
5	3	2-1/2	11-1/16	15-9/16	1453
6	3	2-1/2	11-9/16	16-1/16	1628
8	3	2-1/2	13-9/16	18-1/16	1913
10	3	2-1/2	14-5/8	19-1/8	2193
12	3	2-1/2	15-5/8	20-1/8	2593
14	4	3	18-7/8	23-3/8	4150
16	4	3	19-7/8	24-3/8	4445
18	6	4	22-1/4	26-3/4	6208
20	6	4	23-1/4	27-3/4	6557
22	6	4	24-1/4	28-3/4	6908
24	6	4	26-1/2	31	7436
26	6	4	27-1/2	32	7768
30	6	4	29-5/8	34-1/8	9196
32	6	4	30-5/8	35-1/8	9575
36	6	4	32-5/8	37-1/8	10294



K-319

THREADED PIPE WITH ADJUSTER

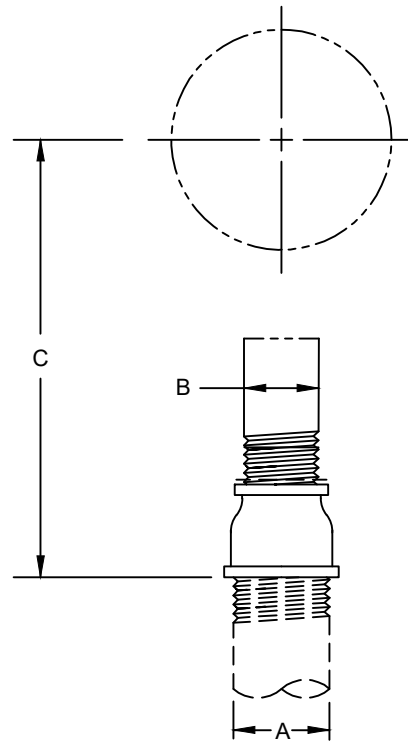
SIZE RANGE - 2 1/2" THRU 36" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS STEEL

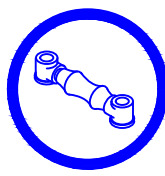
FUNCTION - STRAIGHT THREADED SHANK THAT PERMITS ADJUSTMENT AFTER INSTALLATION.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ADJUSTER SIZE, AND FINISH



ADJUSTER SIZE	PIPE SIZE	MAX. O.D. OF PIPE	A PIPE SIZE	B PIPE SIZE	MIN. C	MAX. C	APPROX. WEIGHT PER 100
1-1/2 x 2-1/2	2-1/2	2-7/8	2-1/2	1-1/2	7	11-1/2	304
1-1/2 x 2-1/2	3	3-1/2	2-1/2	1-1/2	7-5/16	11-13/16	304
1-1/2 x 2-1/2	3-1/2	4	2-1/2	1-1/2	7-9/16	12-1/16	304
2-1/2 x 3	4	4-7/8	3	2-1/2	10-1/4	14-3/4	793
2-1/2 x 3	5	5-5/8	3	2-1/2	11-1/16	15-9/16	793
2-1/2 x 3	6	7	3	2-1/2	11-9/16	16-1/16	793
2-1/2 x 3	8	9-1/8	3	2-1/2	13-9/16	18-1/16	793
2-1/2 x 3	10	11-1/8	3	2-1/2	14-5/8	19-1/8	793
2-1/2 x 3	12	13-1/2	3	2-1/2	15-5/8	20-1/8	793
3 x 4	14	14	4	3	18-7/8	23-3/8	1220
3 x 4	16	16	4	3	19-7/8	24-3/8	1220
4 x 6	18	18	6	4	22-1/4	26-3/4	2248
4 x 6	20	20	6	4	23-1/4	27-3/4	2248
4 x 6	22	22	6	4	24-1/4	28-3/4	2248
4 x 6	24	24	6	4	26-1/2	31	2248
4 x 6	26	26	6	4	27-1/2	32	2248
4 x 6	30	30	6	4	29-5/8	34-1/8	2248
4 x 6	32	32	6	4	30-5/8	35-1/8	2248
4 x 6	36	36	6	4	32-5/8	37-1/8	2248



K-322

PIPE ROLL WITH SOCKETS

SIZE RANGE - 2" THRU 36" PIPE SIZE

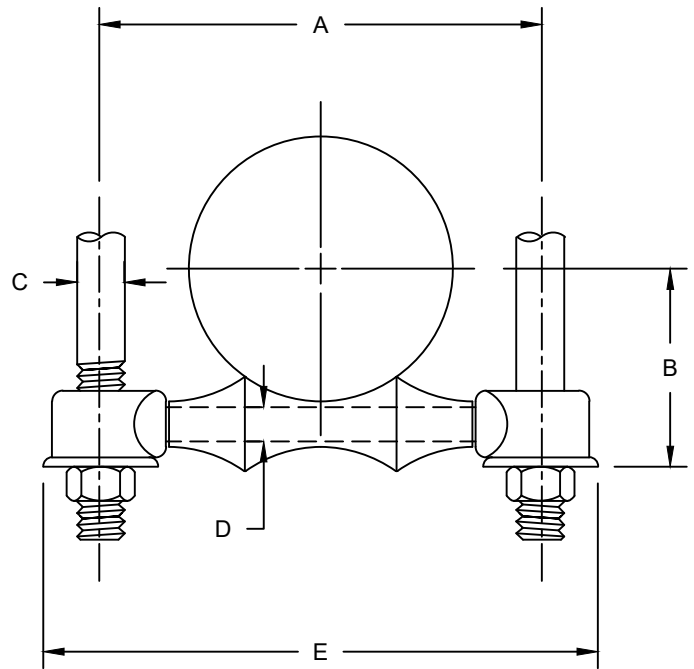
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - FOR SUPPORTING PIPE WHERE EXPANSION MAY OCCUR DUE TO THERMAL MOVEMENT. DOUBLE ROD DESIGN PROVIDES SUPPORT FOR GREATER LOADS.

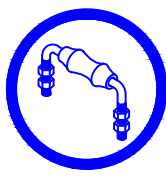
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

NOTE: WHEN PIPE LINE IS INSULATED, TOTAL OUTSIDE DIAMETER OF PIPE AND COVERING SHOULD BE USED TO DETERMINE SIZE OF HANGER: ALSO SEE K-260-1 THRU K-265-4



PIPE SIZE	A	B	C ROD SIZE	D AXLE SIZE	E	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
2	4-1/16	2-3/16	3/8	3/8	5-7/16	600	58
2 1/2	4-7/8	2-5/8	1/2	1/2	6-1/4	660	123
3	5-1/2	2-15/16	1/2	1/2	6-7/8	700	133
3 1/2	6	3-5-16	1/2	1/2	7-3/8	750	146
4	6-7/8	3-3/4	5/8	1/2	8-7/16	750	230
5	8	4-5/16	5/8	5/8	9-9/16	750	285
6	9-5/8	4-15/16	3/4	3/4	11-9/16	1070	460
8	11-13/16	6-5/16	7/8	7/8	14	1350	720
10	14	7-9/16	7/8	7/8	16-3/16	1730	1100
12	16	8-11/16	7/8	1	18-3/16	2400	1630
14	18	9-13/16	1	1-1/8	20-11/16	3130	2150
16	20-1/4	11-1/16	1	1-1/4	23	3970	2850
18	22-1/2	12-1/8	1	1-1/4	25-1/4	4200	3650
20	25	13-1/2	1-1/4	1-3/8	28-1/4	4550	4650
24	28-5/8	15-11/16	1-1/2	1-1/2	31-7/8	6160	6200
30	33-1/2	19-3/8	1-1/2	1-7/8	39-5/8	7290	12500
36	42-1/2	22-3/4	2	2-1/4	47-1/16	11000	28100



K-323

ADJUSTABLE SUPPORT ROLLER

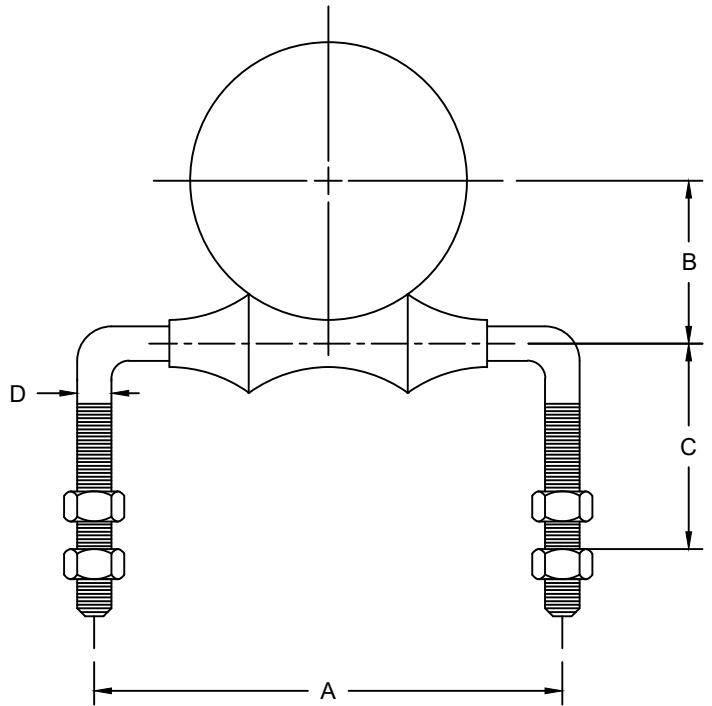
SIZE RANGE - 2" THRU 10" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

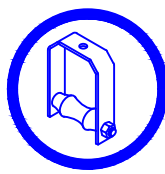
FUNCTION - SUPPORT FOR PIPING WHERE EXPANSION MAY OCCUR DUE TO THERMAL MOVEMENT. USED WHEN CEILING SUPPORT IS IMPRACTICAL.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	A	B	C	D ROD SIZE	MAX. ADJ.	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
2	4-1/4	1-9/16	3-3/4	3/8	1-3/4	450	65
2 1/2	4-1/2	1-7/8	4-1/8	1/2	2-1/4	500	130
3	5-3/8	2-3/16	4-1/8	1/2	2-1/4	520	147
3 1/2	5-3/4	2-1/2	4-1/8	1/2	2-1/4	560	159
4	6-5/8	2-15/16	5-3/8	1/2	3	560	240
5	7-3/4	3-7/16	5-3/8	5/8	3	560	305
6	8-5/8	4-1/16	6-1/8	3/4	3-1/2	800	465
8	11-1/4	5-1/8	7-1/8	7/8	4	1010	712
10	13-1/2	6-3/8	7-1/8	7/8	4	1290	955



K-324

PIPE ROLLER HANGER

SIZE RANGE - 2 1/2" THRU 24" PIPE SIZE

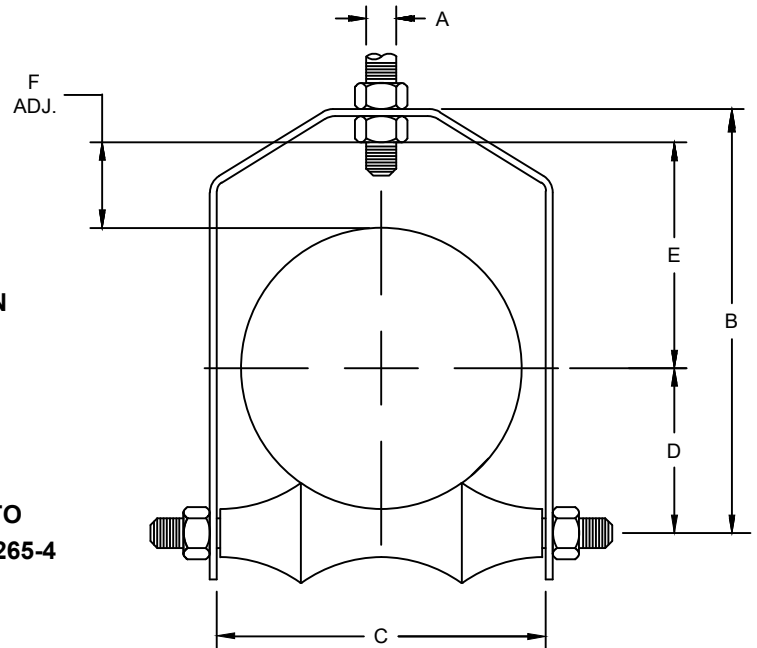
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - FOR SUPPORTING PIPE WHERE EXPANSION MAY OCCUR DUE TO THERMAL MOVEMENT.

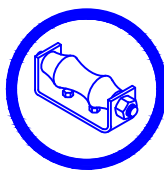
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

NOTE: WHEN PIPE LINE IS INSULATED, TOTAL OUTSIDE DIAMETER OF PIPE AND COVERING SHOULD BE USED TO DETERMINE SIZE OF HANGER: ALSO SEE K-260-1 TO K-265-4



PIPE SIZE	A ROD SIZE	B	C	D	E	F	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
2 1/2	1/2	5-5/16	3-5/16	1-7/8	3-7/16	2	225	171
3	1/2	6-5/8	3-15/16	2-3/16	3-3/4	2	310	224
3 1/2	1/2	7-1/4	4-3/8	2-9/16	4	2	390	250
4	5/8	7-7/8	5-1/16	2-7/8	4-3/16	2	475	372
5	5/8	9-1/8	6-1/8	3-7/16	4-3/4	2	685	649
6	3/4	10-3/16	7-1/16	4-1/16	5-1/8	2	780	869
8	7/8	12-1/2	9-3/16	5-1/16	6-5/16	2	780	1368
10	7/8	15-5/16	11-3/8	6-5/16	7-7/8	2-1/2	965	1909
12	7/8	17-9/16	13-1/2	7-7/16	8-7/8	2-1/2	1200	3001
14	1	20-1/4	14-5/8	8-7/16	10-7/16	3-7/16	1200	3578
16	1	22-3/8	16-5/8	9-5/16	11-11/16	3-11/16	1200	4150
18	1	24-1/2	18-5/8	10-3/8	12-5/8	3-5/8	1400	5382
20	1-1/4	26-3/4	20-5/8	11-11/16	13-1/4	3-1/4	1600	7317
24	1-1/2	31-9/16	24-5/8	13-13/16	15-1/2	3-1/2	1600	12500



K-325

PIPE ROLLER CHAIR

SIZE RANGE - 2" THRU 24" PIPE SIZE

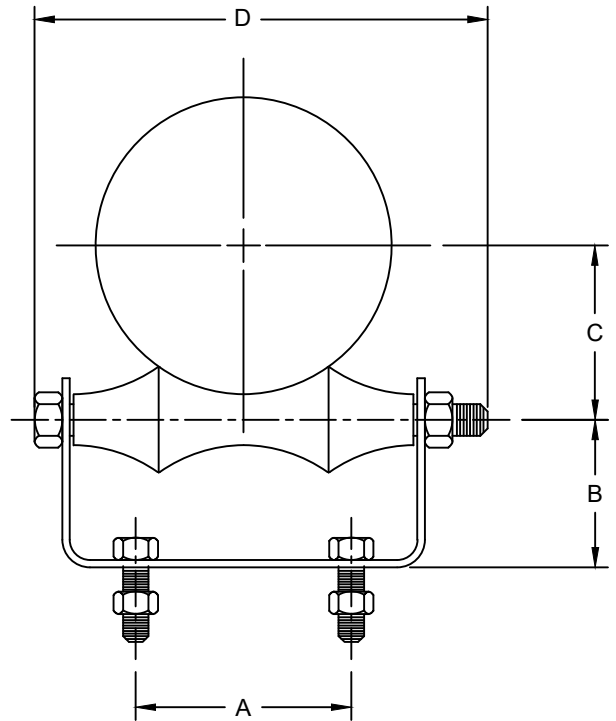
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - SUPPORT FOR PIPING WHERE EXPANSION MAY OCCUR DUE TO THERMAL MOVEMENT. USED WHEN CEILING SUPPORT IS IMPRACTICAL.

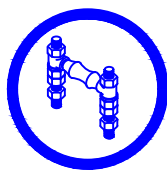
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

NOTE: WHEN PIPE LINE IS INSULATED, TOTAL OUTSIDE DIAMETER OF PIPE AND COVERING SHOULD BE USED TO DETERMINE SIZE OF HANGER: ALSO SEE K-260-1 TO K-265-4



PIPE SIZE	A	B	C	D	AXLE SIZE	BOLT SIZE	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
2	1-1/4	1-1/2	1-9/16	4	3/8	3/8 x 1-1/4	600	104
2 1/2	1-1/4	1-7/8	1-7/8	4-1/2	1/2	3/8 x 1-1/4	660	163
3	2	2	2-3/16	5-1/2	1/2	3/8 x 1-1/4	700	175
3 1/2	2	2-5/16	2-1/2	6	1/2	3/8 x 1-1/4	750	245
4	2	2-5/16	2-5/16	6-1/2	1/2	1/2 x 1-1/2	750	347
5	3	2-9/16	3-7/16	7-1/2	5/8	1/2 x 1-1/2	750	488
6	3-1/8	2-3/4	4-1/16	9	3/4	1/2 x 1-1/2	1070	613
8	3-3/8	3-1/8	5-1/8	12-5/8	7/8	5/8 x 1-1/2	1350	1039
10	5-1/4	3-13/16	6-3/8	14-3/4	7/8	5/8 x 1-3/4	1730	1654
12	5-1/2	4-1/8	7-9/16	16-7/8	1	5/8 x 1-3/4	2400	2190
14	6-1/2	4-11/16	8-7/16	18-3/4	1-1/8	3/4 x 2	3130	2770
16	8-1/4	5-3/8	9-7/16	21	1-1/4	3/4 x 2-1/2	3970	3460
18	9-1/4	6	10-9/16	23-1/8	1-1/4	3/4 x 2-1/2	4200	4120
20	10-1/4	6-1/2	11-3/4	24-5/8	1-3/8	3/4 x 2-1/2	4550	5510
24	12-1/4	7-7/8	13-7/8	29-3/8	1-1/2	7/8 x 3-1/2	6160	9000



KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

K-326

ADJUSTABLE TWO ROD PIPE ROLLER

SIZE RANGE - 1" THRU 36" PIPE SIZE

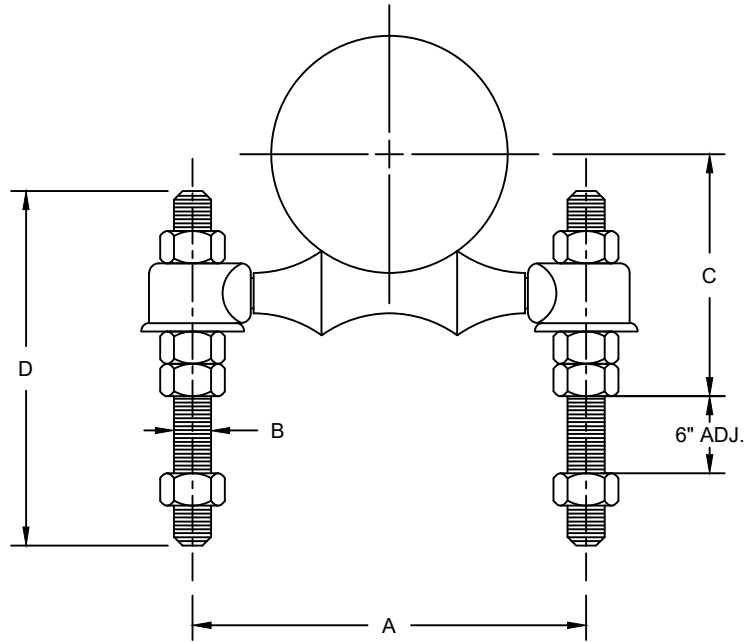
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - SUPPORT FOR PIPING WHERE EXPANSION MAY OCCUR DUE TO THERMAL MOVEMENT. USED WHERE ADJUSTMENT UP TO 6" ARE REQUIRED.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

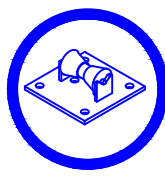
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

NOTE: WHEN PIPE LINE IS INSULATED, TOTAL OUTSIDE DIAMETER OF PIPE AND COVERING SHOULD BE USED TO DETERMINE SIZE OF HANGER: ALSO SEE K-260-1 TO K-265-4



PIPE SIZE	A	B ROD SIZE	C	D	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
1	3-1/8	3/8	2-5/16	9	600	100
1-1/4	3-7/16	3/8	2-1/2	9	600	101
1-1/2	3-5/8	3/8	2-5/8	9	600	104
2	4-1/16	3/8	2-13/16	9	600	112
2 1/2	4-7/8	1/2	3-1/2	10	660	236
3	5-1/2	1/2	3-13/16	10	700	246
3 1/2	6	1/2	4-3/16	10	750	259
4	6-7/8	5/8	4-7/8	11	750	451
5	8	5/8	5-7/16	11	750	486
6	9-5/8	3/4	6-5/16	12	1070	795
8	11-13/16	7/8	7-15/16	13	1350	1182
10	14	7/8	9-3/16	13	1730	1562
12	16	7/8	10-7/16	13	2400	2312
14	18	1	11-13/16	15	3130	3091
16	20-1/4	1-1/4	13-5/16	15-1/2	3970	4102
18	22-1/2	1-1/4	14-3/8	15-1/2	4200	4902
20	25	1-1/4	15-7/8	16-1/2	4550	7480
24	28-5/8	1-1/2	18-5/16	16-1/2	6160	8572
30	33-1/2	1-1/2	23-1/8	21	7290	16396
36	42-1/2	2	26-11/16	21	11000	35084

PRODUCTS WITH INTEGRITY



K-327 PIPE ROLLER STAND

SIZE RANGE - 2" THRU 30" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

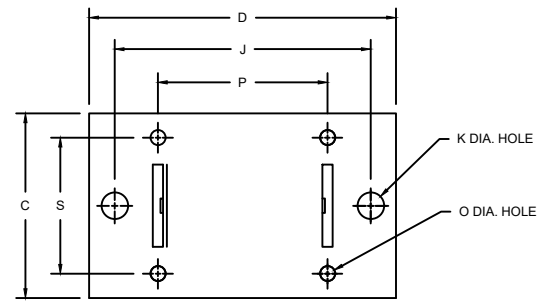
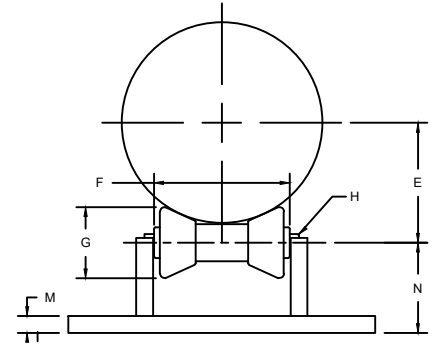
FUNCTION - DESIGNED FOR USE ON LINES SUBJECT TO LONGITUDINAL MOVEMENT.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

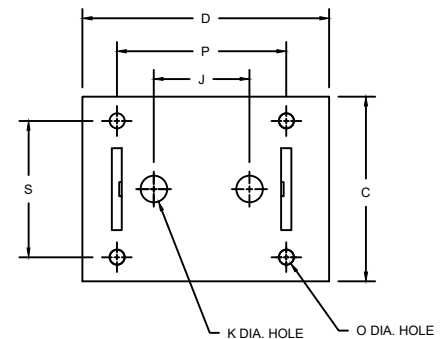
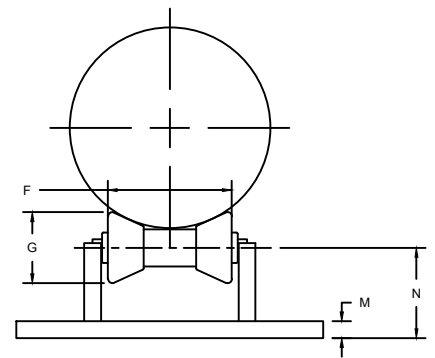
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

PIPE SIZE	C	D	E	F	G	H	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
2	5-3/4	8-1/2	1-1/2	2-3/4	1-7/8	1/2	390	570
2 1/2	5-3/4	8-1/2	1-3/4	2-3/4	1-7/8	1/2	390	570
3	5-3/4	8-1/2	2-1/8	2-3/4	1-7/8	1/2	390	570
4	5-3/4	10-1/8	2-3/4	3-3/4	2-1/8	1/2	950	760
5	5-3/4	10-1/8	3-3/8	3-3/4	2-1/8	1/2	950	760
6	5-3/4	10-1/8	3-7/8	3-3/4	2-1/8	1/2	950	760
8	6-7/8	10-7/8	5-1/8	6-1/8	3-1/4	3/4	2100	1330
10	6-7/8	10-7/8	6-1/4	6-1/8	3-1/4	3/4	2100	1330
12	7-7/8	11	7-3/8	8	4	7/8	3075	2375
14	7-7/8	11	8	8	4	7/8	3075	2375
16	8-3/4	12-1/2	8-7/8	9-1/8	4-1/2	1-1/8	4980	3420
18	8-3/4	12-1/2	10	9-1/8	4-1/2	1-1/8	4980	3420
20	8-3/4	12-1/2	11	9-1/8	4-1/2	1-1/8	4980	3420
24	8-7/8	13-3/4	13	10	4-1/2	1-1/4	6100	4275
30	10-3/4	17-1/4	16-1/4	12-1/2	5-1/2	1-3/4	7500	8550

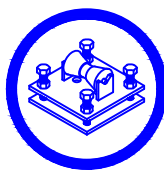
PIPE SIZE	J	K	M	N	O	P	S
2-3	6-1/2	1	1/4	2	7/16	3-1/2	4-1/8
4-6	8	1	1/4	2-3/8	9/16	4-3/4	4-1/4
8-10	4	1	3/8	3-3/4	5/8	7	5
12-14	5-3/4	1	3/8	3-3/4	9/16	9-1/4	6
16-20	6-3/4	1	1/2	4-5/8	3/4	10-1/4	6-1/2
22-24	7-1/2	1	5/8	4-3/4	13/16	11-1/2	6-3/4
26-30	10	1	5/8	5-5/8	1	14-3/8	8



2" THRU 6" PIPE SIZE



8" THRU 30" PIPE SIZE



K-328

ADJUSTABLE PIPE ROLL STAND

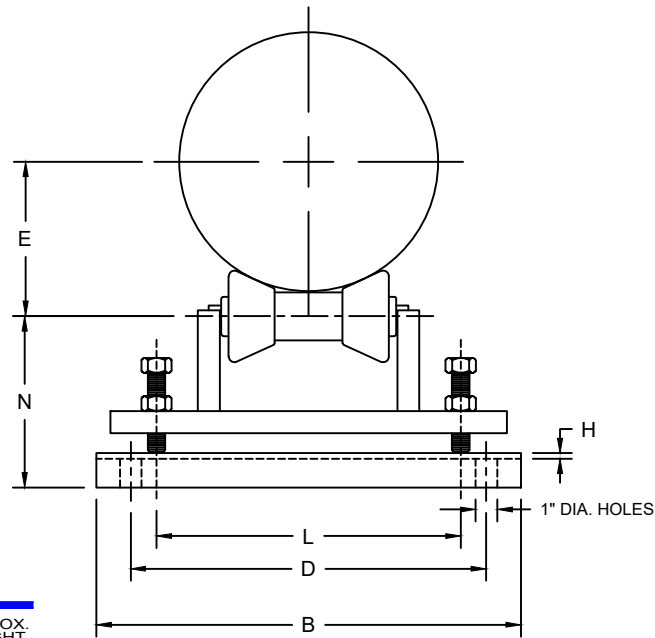
SIZE RANGE - 2" THRU 30" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

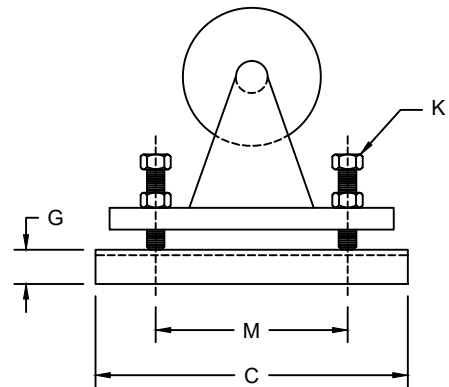
FUNCTION - DESIGNED FOR USE ON LINES SUBJECT TO LONGITUDINAL MOVEMENT.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	B	C	D	E	G	H	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
2	6-7/8	5-1/2	3-7/8	1-1/2	1-7/8	1/2	390	570
2 1/2	6-7/8	5-1/2	3-7/8	1-3/4	1-7/8	1/2	390	570
3	6-7/8	5-1/2	3-7/8	2-1/8	1-7/8	1/2	390	570
4	8-1/8	5-3/4	5-1/8	3-3/4	2-1/8	1/2	950	760
5	8-1/8	5-3/4	5-1/8	3-3/4	2-1/8	1/2	950	760
6	8-1/8	5-3/4	5-1/8	3-3/4	2-1/8	1/2	950	760
8	10-5/8	6-3/4	7-3/8	6-1/8	3-1/4	3/4	2100	1330
10	10-5/8	6-3/4	7-3/8	6-1/8	3-1/4	3/4	2100	1330
12	13	8	9-1/2	8	4	7/8	3075	2375
14	13	8	9-1/2	8	4	7/8	3075	2375
16	14-5/8	8-5/8	11-1/8	9-1/8	4-1/2	1-1/8	4980	3420
18	14-5/8	8-5/8	11-1/8	9-1/8	4-1/2	1-1/8	4980	3420
20	14-5/8	8-5/8	11-1/8	9-1/8	4-1/2	1-1/8	4980	3420
24	15-3/4	8-5/8	12-1/4	10	4-1/2	1-1/4	6100	4275
30	19-1/4	10-1/2	15-3/4	12-1/2	5-1/2	1-3/4	7500	8550



PIPE SIZE	J	K	M	N	O	P	S
2-3	6-1/2	1	1/4	2	7/16	3-1/2	4-1/8
4-6	8	1	1/4	2-3/8	9/16	4-3/4	4-1/4
8-10	4	1	3/8	3-3/4	5/8	7	5
12-14	5-3/4	1	3/8	3-3/4	9/16	9-1/4	6
16-20	6-3/4	1	1/2	4-5/8	3/4	10-1/4	6-1/2
22-24	7-1/2	1	5/8	4-3/4	13/16	11-1/2	6-3/4
26-30	10	1	5/8	5-5/8	1	14-3/8	8



K-330

WELDLESS EYE NUT

SIZE RANGE - 3/8" THRU 2-1/2" ROD SIZE

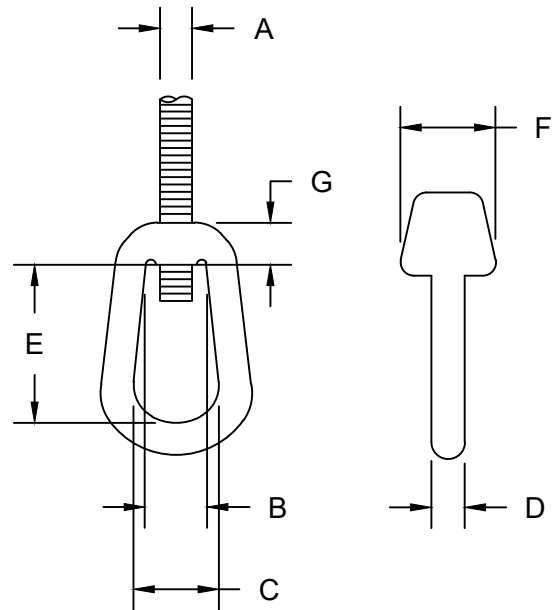
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - USED ON PIPING INSTALLATIONS WHERE HIGH STRENGTH AND SWIVEL ACTION IS REQUIRED.

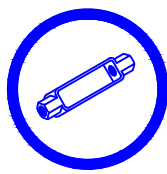
THREAD - TAPPED UNC CLASS 2B. RIGHT HAND THREADS ARE STANDARD. LEFT HAND TAP ALSO AVAILABLE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



A ROD SIZE	B	C	D	E	F	G	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	1-1/2	1-3/16	1/2	2	1-3/8	11/16	540	63
1/2	1-1/2	1-3/16	1/2	2	1-3/8	11/16	1010	63
5/8	1-1/2	1-3/16	1/2	2	1-3/8	11/16	1610	64
3/4	1-1/2	1-3/16	1/2	2	1-3/8	11/16	2420	64
7/8	2	1-11/16	3/4	2-5/8	1-15/16	1	3360	172
1	2	1-11/16	3/4	2-5/8	1-15/16	1	4420	174
1-1/8	2-1/2	1-13/16	1	3-3/8	2-3/8	1-1/4	5560	373
1-1/4	2-1/2	1-13/16	1	3-3/8	2-3/8	1-1/4	7140	375
1-1/2	2-1/2	1-13/16	1	3-3/8	2-3/8	1-1/4	10370	376
1-3/4	4	4	1-1/2	6-1/4	4	2-1/4	14000	1657
2	4	4	1-1/2	6-1/4	4	2-1/4	18460	1660
2-1/4	4	4	1-1/2	6-1/4	4	2-1/4	24260	1661
2-1/2	4	4	1-1/2	6-1/4	4	2-1/4	29880	1661



K-331

TURNBUCKLE

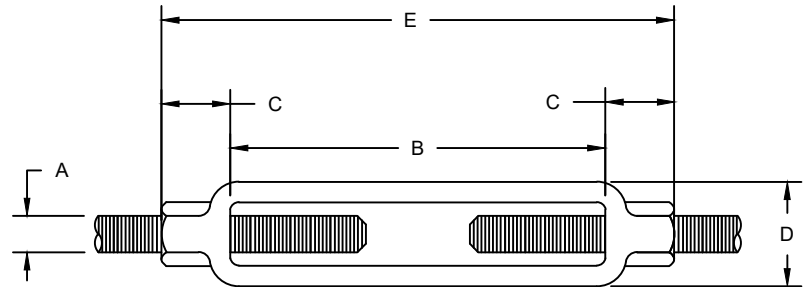
SIZE RANGE - 3/8" THRU 2" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

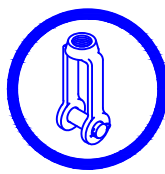
FUNCTION - STANDARD TURNBUCKLE TAPPED RIGHT AND LEFT HAND WHICH PROVIDES 6" TAKE UP

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



A ROD SIZE	B	C	D	E	F	G	MAX REC. LOAD LBS.	APPROX. WEIGHT PER 100
3/8	6	9/16	1/2	2	1-3/8	11/16	540	63
1/2	6	1-3/16	1/2	2	1-3/8	11/16	1010	63
5/8	6	1-3/16	1/2	2	1-3/8	11/16	1610	64
3/4	6	1-3/16	1/2	2	1-3/8	11/16	2420	64
7/8	6	1-11/16	3/4	2-5/8	1-15/16	1	3360	172
1	6	1-11/16	3/4	2-5/8	1-15/16	1	4420	174
1-1/8	6	1-13/16	1	3-3/8	2-3/8	1-1/4	5560	373
1-1/4	6	1-13/16	1	3-3/8	2-3/8	1-1/4	7140	375
1-1/2	6	1-13/16	1	3-3/8	2-3/8	1-1/4	10370	376
1-3/4	6	4	1-1/2	6-1/4	4	2-1/4	14000	1657
2	6	4	1-1/2	6-1/4	4	2-1/4	18460	1660



K-332

BRIDGE CLEVIS

SIZE RANGE - 3/8" THRU 4" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

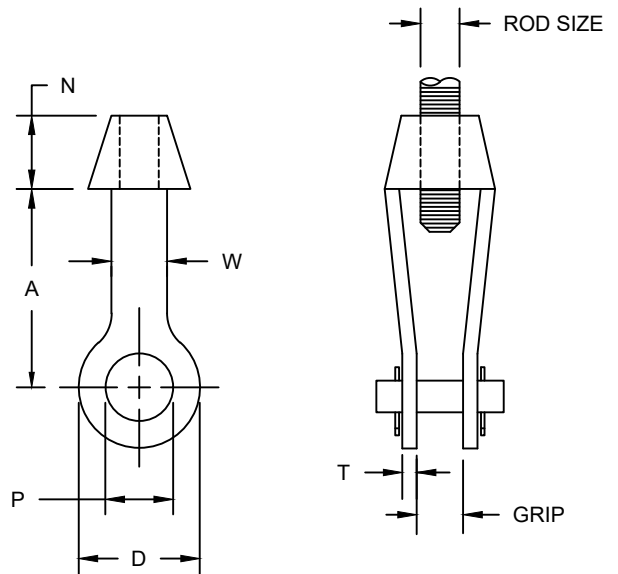
FUNCTION - FOR USE ON HIGH TEMPERATURE PIPING

FEATURES - SUPPORTS LOADS EQUAL TO THE FULL LIMITATION OF THE HANGER ROD.

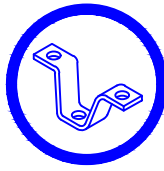
AVAILABLE WITH PIN AND COTTER, IF REQUIRED

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



SIZE NUMBER	TAP SIZE	A	D	N	PIN SIZE		T	W	GRIP	MAX. REC. LOADS** FOR SERVICE TEMPS		APPROX. WEIGHT PER EA.	
					P					650° F	750° F	W/O PIN	W/ PIN
2	3/8	3-11/16	1-7/16	5/8	1/2		5/16	1-1/16	1/2	610	540	.90	1.00
2	1/2	3-11/16	1-7/16	5/8	5/8		5/16	1-1/16	1/2	1130	1010	.70	.90
2	5/8	3-11/16	1-7/16	5/8	3/4		5/16	1-1/16	5/8	1810	1610	.70	.90
2-1/2	3/4	5	2	7/8	7/8		3/8	1-1/4	3/4	2710	2420	2.50	3.00
2-1/2	7/8	5	2	7/8	1		3/8	1-1/4	7/8	3770	3360	2.50	3.40
3	1	5	3	1-5/16	1-1/8		1/2	1-1/2	1	4960	4420	4.00	5.10
3	1-1/4	5	3	1-5/16	1-3/8		1/2	1-1/2	1-1/4	8000	7140	3.80	5.50
3-1/2	1-1/2	6	3-1/2	1-5/8	1-5/8		1/2	1-3/4	1-1/2	11630	10370	6.00	8.50
4	1-3/4	6	4	1-3/4	1-7/8		1/2	2	1-1/2	15700	14000	8.00	12.90
5	2	7	5	2-1/4	2-1/4		5/8	2-1/2	2-1/2	20700	18460	16.00	23.30
6	2-1/4	8	6	2-3/4	2-1/2		3/4	3	2-1/2	27200	24260	26.00	35.10
6	2-1/2	8	6	2-3/4	2-3/4		3/4	3	2-1/2	33500	29880	25.50	36.00
7	2-3/4	9	7	3	3		7/8	3-1/2	2-1/2	41580	37066	36.00	50.00
7	3	9	7	3	3-1/4		7/8	3-1/2	2-1/2	50580	45085	35.00	51.50
8	3-1/4	10	8	4	3-1/2		1-1/2	4	4	60480	53906	90.00	116.00
8	3-1/2	10	8	4	3-3/4		1-1/2	4	4	71280	63493	88.00	118.00
8	3-3/4	10	8	4	4		1-1/2	4	4	82890	73855	86.00	120.00
8	4	10	8	4	4-1/4		1-1/2	4	4	95400	85001	84.00	122.00



K-337

ADJUSTABLE BEAM ATTACHMENT

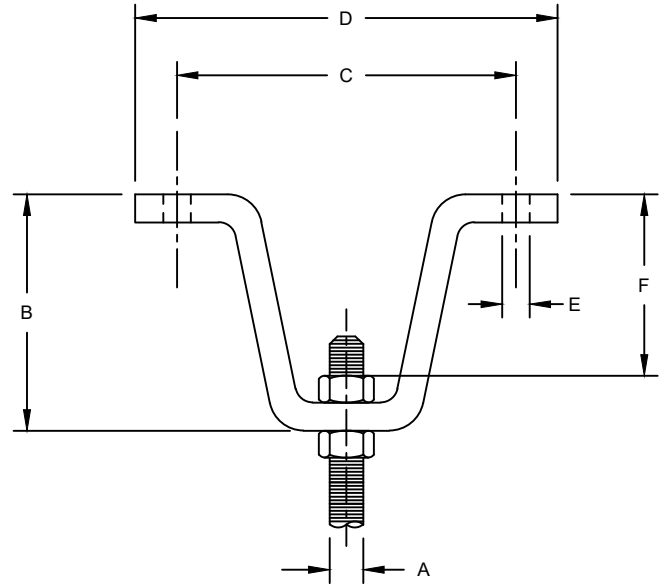
SIZE RANGE - 3/8" THRU 7/8" ROD SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED FOR USE AS A BEAM ATTACHMENT FOR SUSPENSION OF ROD.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



ROD SIZE	A HOLE SIZE	B	C	D	E	F	MAXIMUM REC. LOAD LBS	APPROX. WEIGHT PER 100
3/8	7/16	2-3/4	3-7/8	4-7/8	7/16	2-1/8	1400	860
1/2	9/16	3-1/8	4-3/4	6	9/16	2-5/16	1400	1060
5/8	11/16	3-1/8	4-3/4	6	9/16	2-3/16	1400	1230
3/4	13/16	3-11/16	6-1/4	7-3/4	11/16	2-9/16	1400	1430
7/8	15/16	3-3/4	6-3/8	8-1/4	13/16	2-1/2	1400	1630

K-343

WELDING LUG

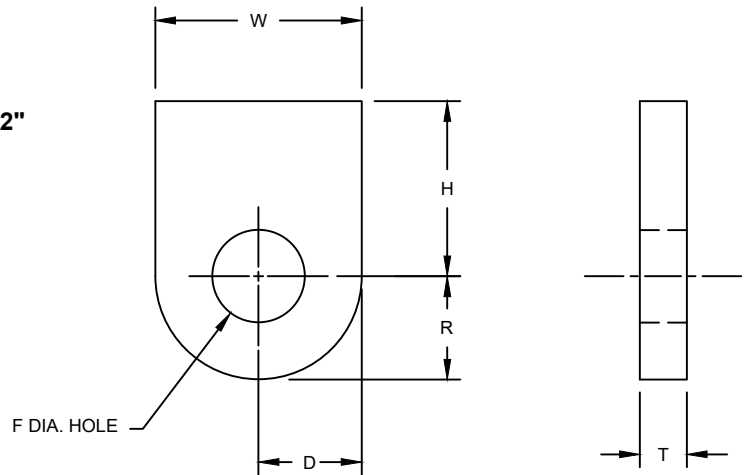
SIZE RANGE - SHORT LUG IS AVAILABLE FOR USE WITH 1/2" THRU 3-3/4" ROD, LONG LUG MAY BE USED WITH 1/2" THRU 2" ROD.

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - USED FOR ATTACHMENT TO STRUCTURAL STEEL. THE LUGS ARE DESIGNED TO BE USED IN CONJUNCTION WITH K-332 BRIDGE CLEVIS.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, ROD SIZE AND FINISH



ROD SIZE	PIN	D	F	H		R	T	W	MAX. REC. LOADS	APPROX. WEIGHT PER EA.	
				SHORT	LONG					SHORT	LONG
1/2	5/8	1	11/16	1-1/2	3	1	1/4	2	1130	33	54
5/8	3/4	1	13/16	1-1/2	3	1	1/4	2	1810	32	53
3/4	7/8	1-1/4	15/16	1-1/2	3	1-1/4	3/8	2-1/2	2710	64	104
7/8	1	1-1/4	1-1/8	2	3	1-1/4	3/8	2-1/2	3770	74	101
1	1-1/8	1-1/2	1-1/4	2	3	1-1/2	1/2	3	4960	121	164
1-1/8	1-1/4	1-1/2	1-3/8	3	4	1-1/2	1/2	3	6230	160	203
1-1/4	1-1/2	2	1-5/8	3	4	2	5/8	4	8000	288	359
1-1/2	1-3/4	2-1/2	1-7/8	3	4-1/2	2-1/2	3/4	5	11630	469	629
1-3/4	2	2-1/2	2-1/8	3	4-1/2	2-1/2	3/4	5	15700	453	613
2	2-1/4	3	2-3/8	4	4-1/2	3	3/4	6	20630	718	782
2-1/4	2-1/2	3	2-5/8	4-1/2	-	3	3/4	6	23000	761	-
2-1/2	2-3/4	4	2-7/8	4-1/2	-	4	1	8	30550	1552	-
2-3/4	3	4	3-1/8	4-1/2	-	4	1	8	41600	1518	-
3	3-1/4	4	3-3/8	5	-	4	1	8	50500	1596	-
3-1/4	3-1/2	4-1/2	3-5/8	5	-	4-1/2	1	9	60500	1888	-
3-1/2	3-3/4	4-1/2	3-7/8	6	-	4-1/2	1-1/2	9	71300	3153	-
3-3/4	4	4-1/2	4-1/8	6	-	4-1/2	1-3/4	9	82900	3601	-



K-405

ANCHOR HOLD DOWN CLAMP

SIZE RANGE - 2" THRU 30" PIPE

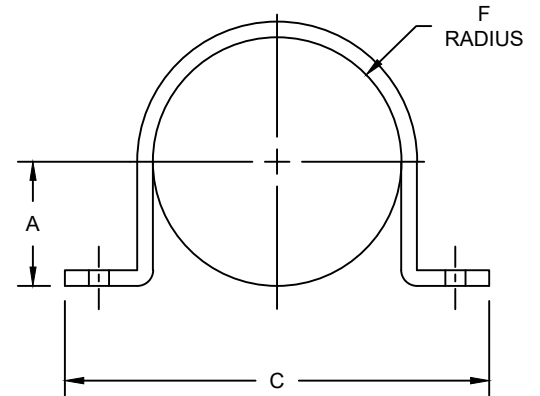
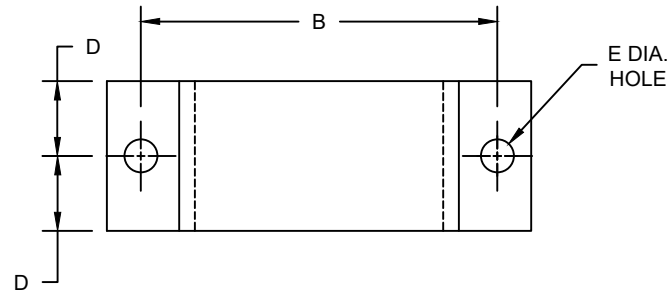
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - DESIGNED FOR USE WHERE PIPE IS ANCHORED TO CONCRETE PIERS OR OTHER SUPPORTS
K-406 BASE PLATE IS RECOMMENDED FOR USE ON ROUGH OR UNEVEN SURFACES.

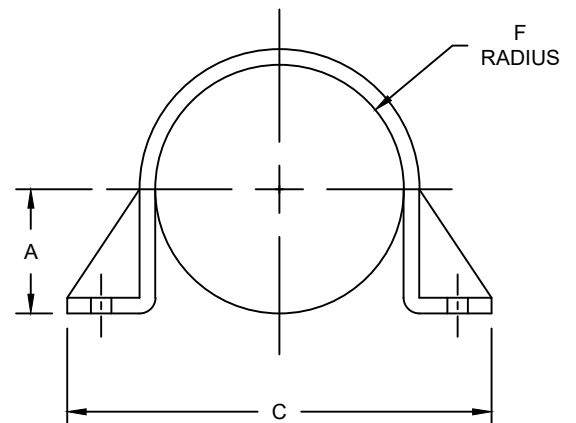
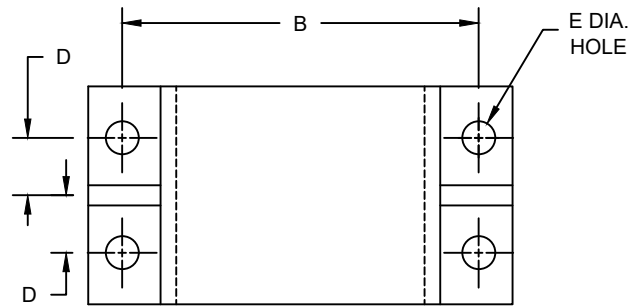
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

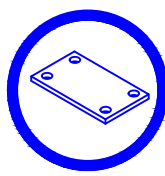
PIPE SIZE	A	B	C	D	E HOLE SIZE	F	APPROX. WEIGHT PER 100
2	15/16	5-3/8	7-5/8	1-1/2	7/8	1-3/16	306
2-1/2	1-3/16	5-7/8	8-1/8	1-1/2	7/8	1-7/16	348
3	1-1/2	6-1/2	8-3/4	1-1/2	7/8	1-3/4	409
3-1/2	1-3/4	7	9-1/4	1-1/2	7/8	2	449
4	2	7-1/2	9-3/4	1-1/2	7/8	2-1/4	491
5	2-9/16	8-9/16	10-13/16	1-1/2	7/8	2-13/16	581
6	3-1/16	10-5/8	13-5/8	3	1	3-5/16	1818
8	4-1/16	12-5/8	15-5/8	3	1	4-5/16	2400
10	5-1/8	15-1/4	18-3/4	2-1/2	1-1/8	5-3/8	3786
12	6-1/8	17-1/4	20-3/4	2-1/2	1-1/8	6-3/8	4546
14	6-3/4	18-1/2	22	3	1-1/8	7	6800
16	7-3/4	20-1/2	24	3	1-1/8	8	7600
18	8-3/4	22-1/2	26	3-1/2	1-1/8	9	10800
20	9-3/4	24-1/2	28	3-1/2	1-1/8	10	12000
24	11-3/4	28-1/2	32	3-1/2	1-1/8	12	13900
30	14-3/4	34-1/2	38	3-1/2	1-1/8	15	16200



2" THRU 8" PIPE SIZE



10" THRU 30" PIPE SIZE



K-406

ANCHOR BASE PLATE

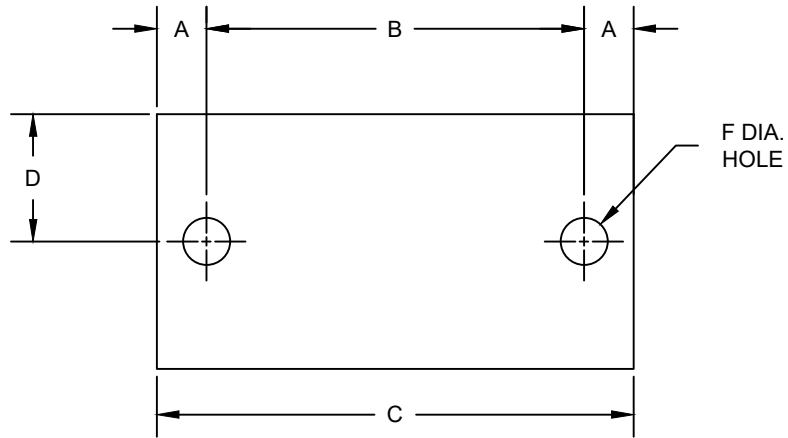
SIZE RANGE - 2" THRU 30" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

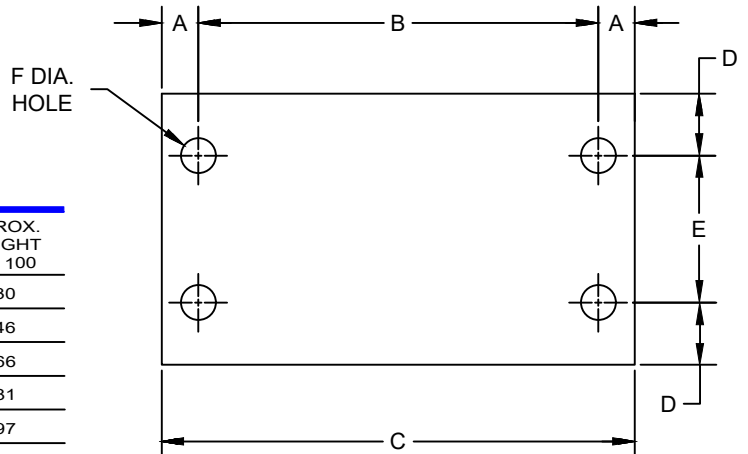
FUNCTION - TO PROVIDE A SMOOTH AND EVEN BEARING SURFACE ON WHICH TO PLACE PIPE. CAN ALSO BE USED TO LOCATE AND SET ANCHOR BOLTS.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

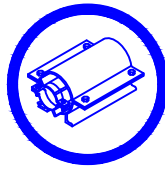


2" THRU 8" PIPE SIZE



10" THRU 30" PIPE SIZE

PIPE SIZE	A	B	C	D	E	F HOLE SIZE	APPROX. WEIGHT PER 100
2	1-1/8	5-3/8	7-5/8	1-1/2	-	7/8	230
2-1/2	1-1/8	5-7/8	8-1/8	1-1/2	-	7/8	246
3	1-1/8	6-1/2	8-3/4	1-1/2	-	7/8	266
3-1/2	1-1/8	7	9-1/4	1-1/2	-	7/8	281
4	1-1/8	7-1/2	9-3/4	1-1/2	-	7/8	297
5	1-1/8	8-9/16	10-13/16	1-1/2	-	7/8	331
6	1-1/2	10-5/8	13-5/8	3	-	1	1131
8	1-1/2	12-5/8	15-5/8	3	-	1	1300
10	1-3/4	15-1/4	18-3/4	1-1/2	5-3/8	5	2059
12	1-3/4	17-1/4	20-3/4	1-1/2	6-3/8	5	2285
14	1-3/4	18-1/2	22	2	7	6	3046
16	1-3/4	20-1/2	24	2	8	6	3328
18	1-3/4	22-1/2	26	2-1/2	9	7	4343
20	1-3/4	24-1/2	28	2-1/2	10	7	4682
24	1-3/4	28-1/2	32	2-1/2	12	7	5358
30	1-3/4	34-1/2	38	2-1/2	15	7	6374



K-420

LONG TRANSVERSE PIPE ALIGNMENT GUIDE

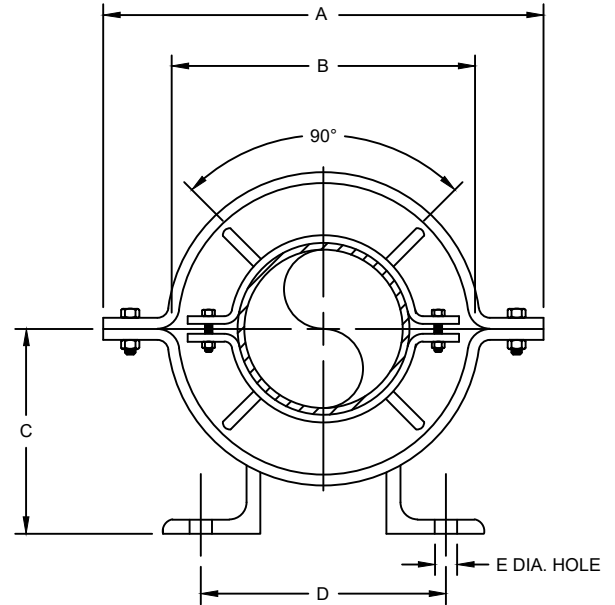
SIZE RANGE - 3/4" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

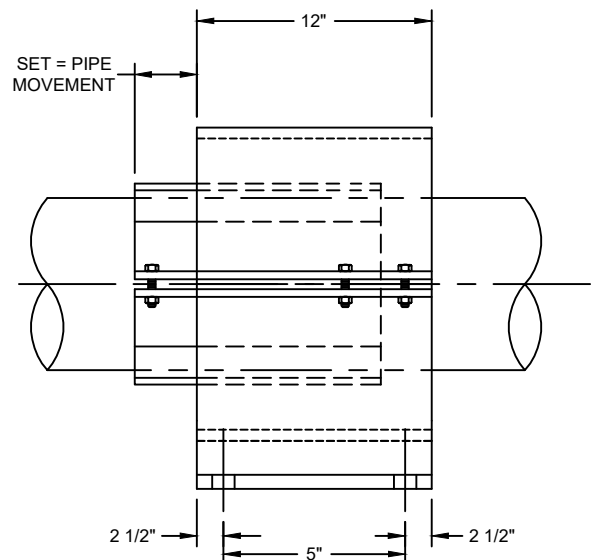
FUNCTION - TO MAINTAIN ALIGNMENT OF PIPING THROUGH
IT'S AXIAL EXPANSION AND CONTRACTION CYCLES.

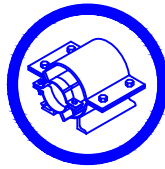
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, STANDARD PIPE SIZE, AND
INSULATION THICKNESS. IF OTHER THAN STANDARD PIPE
IS USED, SPECIFY TYPE AND O.D.



PIPE SIZE	A	B	C	D	E HOLE SIZE	MAX. INSUL. THICKNESS	APPROX. WEIGHT PER 100
3/4	8-5/16	4-13/16	10-1/4	5-3/4	5/8	1-11/16	2430
1	8-5/16	4-13/16	11-1/16	5-3/4	5/8	1-9/16	2890
1-1/4	8-5/16	4-13/16	11-9/16	5-3/4	5/8	1-3/8	3261
1-1/2	9-1/4	5-3/4	13-9/16	6	5/8	1-13/16	3257
2	11-1/4	7-9/16	14-5/8	6-5/8	7/8	2-3/8	4017
2-1/2	11-1/4	7-9/16	15-5/8	6-5/8	7/8	2-1/8	4050
3	11-1/4	7-9/16	18-7/8	6-5/8	7/8	1-3/4	4200
3-1/2	13-1/4	9-1/8	19-7/8	8-1/8	7/8	2-5/16	4483
4	13-1/4	9-1/8	22-1/4	8-1/8	7/8	2-1/16	4491
5	15-3/4	11-1/2	23-1/4	9-3/8	7/8	2-11/16	5771
6	15-3/4	11-1/2	24-1/4	9-3/8	7/8	2-3/16	7045
8	19-5/16	15	26-1/2	12-7/16	7/8	2-15/16	7495
10	21-3/4	17-3/8	26-1/2	13-11/16	1-1/8	2-15/16	9045
12	23-7/8	19-3/8	26-1/2	14-1/4	1-1/8	2-15/16	9901
14	27	20-5/8	26-1/2	13-3/4	1-1/8	2-15/16	10614
16	29	22-5/8	26-1/2	17-1/16	1-1/8	2-15/16	12298
18	31-1/4	25-1/4	26-1/2	18-5/8	1-1/8	3-1/4	13393
20	33-5/8	27-1/4	26-1/2	19-3/8	1-1/8	3-1/4	14062
24	36-5/8	31-1/4	26-1/2	23-11/16	1-1/8	3-1/4	15409





K-421

PIPE ALIGNMENT GUIDE

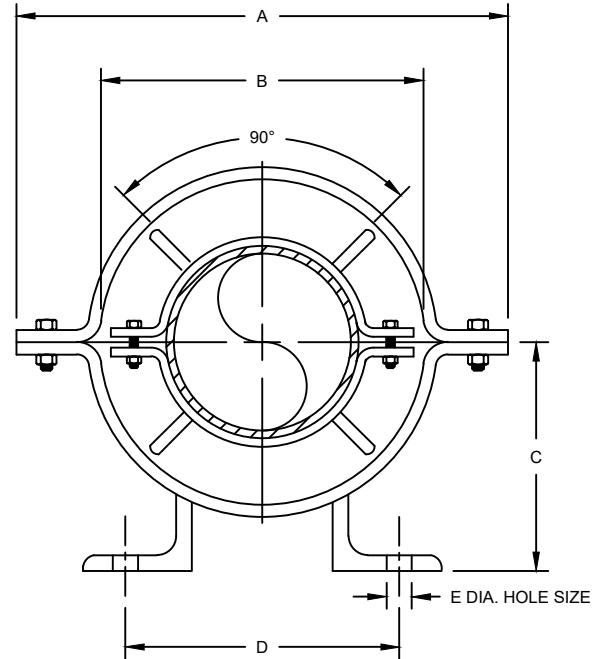
SIZE RANGE - 3/4" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

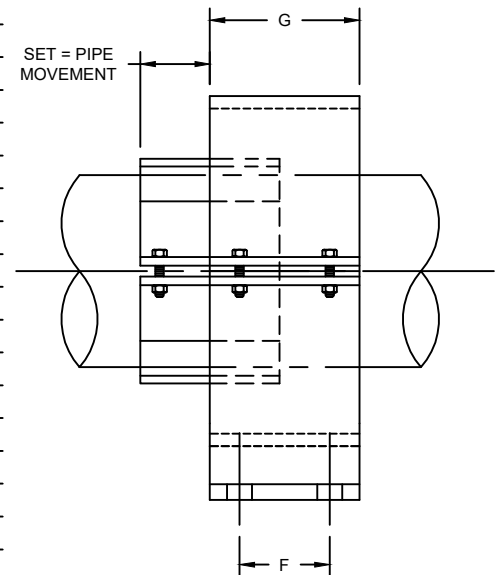
FUNCTION - TO MAINTAIN ALIGNMENT OF PIPING THROUGH IT'S AXIAL EXPANSION AND CONTRACTION CYCLES.

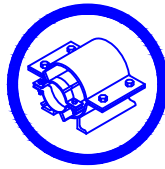
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, STANDARD PIPE SIZE, AND INSULATION THICKNESS. IF OTHER THAN STANDARD PIPE IS USED, SPECIFY TYPE AND O.D.



PIPE SIZE	A	B	C	D	E HOLE SIZE	F	G	MAX. INSUL. THICKNESS	APPROX. WEIGHT PER 100
3/4	8-5/16	4-13/16	4	5-3/4	5/8	2	4	1-11/16	1083
1	8-5/16	4-13/16	4	5-3/4	5/8	2	4	1-9/16	1090
1-1/4	8-5/16	4-13/16	4	5-3/4	5/8	2	4	1-3/8	1213
1-1/2	9-1/4	5-3/4	4-1/2	6	7/8	2	4	1-13/16	1245
2	11-1/4	7-9/16	5	7-5/8	7/8	2	4	2-3/8	1507
2-1/2	11-1/4	7-9/16	5	7-5/8	7/8	2	4	2-1/8	1509
3	11-1/4	7-9/16	5	7-5/8	7/8	2	6	1-3/4	1510
3-1/2	13-1/4	9-1/8	6	7-5/8	7/8	4	6	2-5/16	2443
4	13-1/4	9-1/8	6	7-5/8	7/8	4	8	2-1/16	2494
5	15-3/4	11-1/2	7	10-3/4	7/8	5	8	2-11/16	4122
6	15-3/4	11-1/2	7	11-7/16	7/8	5	8	2-3/16	5055
8	19-5/16	15	9	13-3/8	7/8	5	8	2-15/16	5414
10	21-3/4	17-3/8	10	14-5/8	1-1/8	5	8	2-15/16	6673
12	23-7/8	19-3/8	11	15-1/2	1-1/8	5	8	2-15/16	7290
14	27	20-5/8	12	14	1-1/8	5	8	2-15/16	7818
16	29	22-5/8	14	16-5/8	1-1/8	5	8	2-15/16	9130
18	31-1/4	25-1/4	15	18-3/8	1-1/8	5	8	3-1/4	9924
20	33-5/8	27-1/4	16	18-15/16	1-1/8	5	8	3-1/4	10434
24	36-5/8	31-1/4	17	23-1/4	1-1/8	5	8	3-1/4	11464





K-422

LIGHT WEIGHT PIPE ALIGNMENT GUIDE

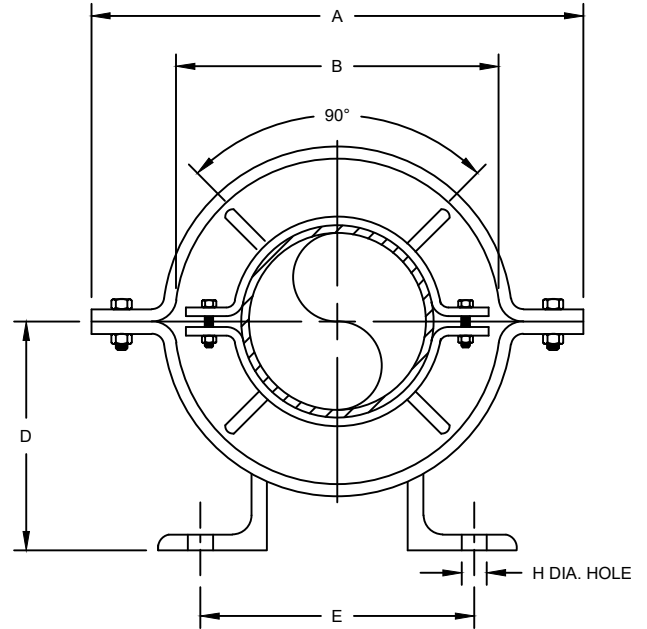
SIZE RANGE - 3/4" THRU 8" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

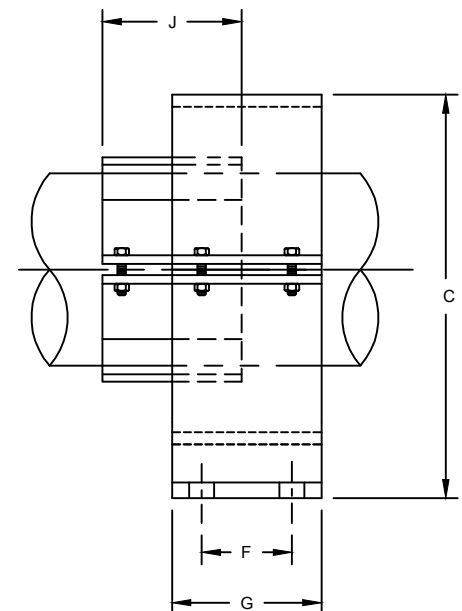
FUNCTION - TO MAINTAIN ALIGNMENT OF PIPING THROUGH
IT'S AXIAL EXPANSION AND CONTRACTION CYCLES.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

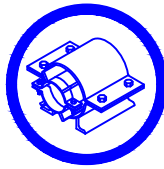
ORDER BY - FIGURE NUMBER, STANDARD PIPE SIZE, AND
INSULATION THICKNESS. IF OTHER THAN STANDARD PIPE
IS USED, SPECIFY TYPE AND O.D.



PIPE SIZE	A	B	C	D	E	F	G	H HOLE SIZE	MAX. INSUL. THICKNESS	APPROX. WEIGHT PER 100
3/4	6-5/8	4-3/8	5-5/16	3-1/8	5	1-1/2	3	5/8	1-5/8	400
1	8-1/2	6-1/4	5-5/8	3-1/2	6-1/4	1-1/2	3	5/8	1-5/8	400
1-1/4	8-1/2	6-1/4	5-5/8	3-1/2	6-1/4	1-1/2	3	5/8	1-5/8	630
1-1/2	8-1/2	6-1/4	5-5/8	3-1/2	6-1/4	1-1/2	3	5/8	1-5/8	630
2	8-1/2	6-1/4	5-5/8	3-1/2	6-1/4	1-1/2	3	5/8	1-5/8	630
2-1/2	9-1/2	7-1/4	7-5/8	4	6-3/4	1-1/2	3	5/8	2-1/8	760
3	11-3/4	9-1/2	9-3/4	5	7-3/8	1-1/2	3	5/8	2-1/8	1260
3-1/2	11-3/4	9-1/2	9-3/4	5	7-3/8	1-1/2	3	5/8	2-1/8	1260
4	11-3/4	9-1/2	9-3/4	5	7-3/8	1-1/2	3	5/8	2-1/8	1260
5	13-5/8	10-5/8	11-9/16	6-1/4	7-3/8	2	4	5/8	2-1/8	1260
6	15-5/8	12-5/8	13-9/16	7-1/4	8	2	4	5/8	2-5/8	1920
8	18-1/4	15-1/4	16-1/8	8-1/2	9-3/4	2	4	3/4	2-5/8	2860



PIPE SIZE	J	MAX MOVEMENT
1 to 4	4	4-3/8
1	8-1/2	6-1/4



K-422C

COPPER TUBING LIGHT WEIGHT PIPE ALIGNMENT GUIDE

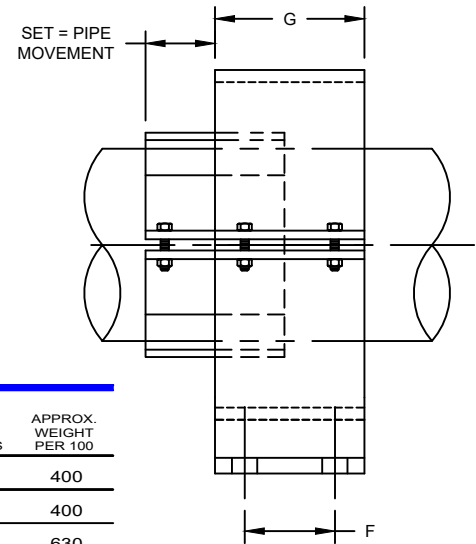
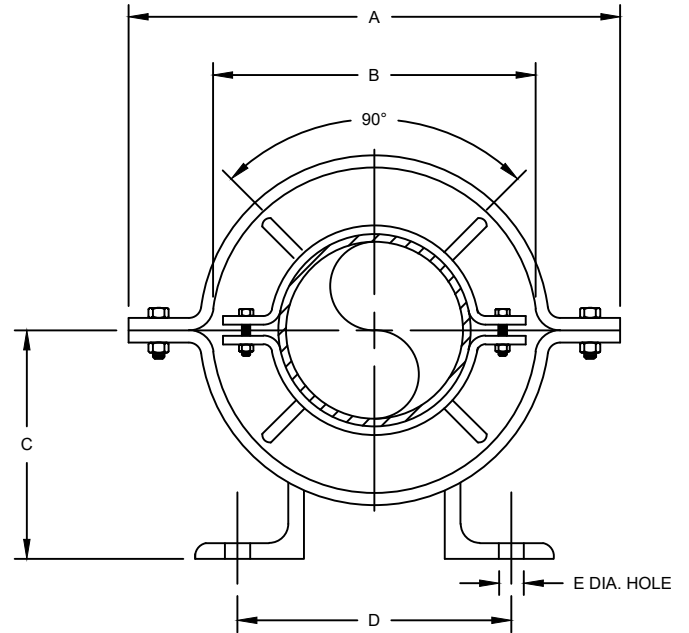
SIZE RANGE - 3/4" THRU 6" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

**FUNCTION - TO MAINTAIN ALIGNMENT OF PIPING THROUGH
IT'S AXIAL EXPANSION AND CONTRACTION CYCLES.**

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

**ORDER BY - FIGURE NUMBER, STANDARD PIPE SIZE, AND
INSULATION THICKNESS. IF OTHER THAN STANDARD PIPE
IS USED, SPECIFY TYPE AND O.D.**



PIPE SIZE	PIPE O.D.	A	B	C	D	E	G	MAX. INSUL. THICKNESS	APPROX. WEIGHT PER 100
3/4	7/8	6-5/8	4-3/8	3-1/8	5	5/8	3	1-5/8	400
1	1-1/8	6-5/8	4-3/8	3-1/8	5	5/8	3	1-5/8	400
1-1/4	1-3/8	8-1/2	6-1/4	3-1/2	6-1/4	5/8	3	1-5/8	630
1-1/2	1-5/8	8-1/2	6-1/4	3-1/2	6-1/4	5/8	3	1-5/8	630
2	2-1/8	8-1/2	6-1/4	3-1/2	6-1/4	5/8	3	1-5/8	630
2-1/2	2-5/8	9-1/2	7-1/4	4	6-3/4	5/8	3	2-1/8	760
3	3-1/8	11-3/4	9-1/2	5	7-3/8	5/8	3	2-1/8	1260
3-1/2	3-5/8	11-3/4	9-1/2	5	7-3/8	5/8	3	2-1/8	1260
4	4-1/8	11-3/4	9-1/2	5	7-3/8	5/8	3	2-1/8	1260
5	5-1/8	11-3/4	9-1/2	5	7-3/8	5/8	3	2-1/8	1260
6	6-1/8	13-5/8	10-5/8	6-1/4	7-3/8	5/8	4	2-1/8	1920

K-425

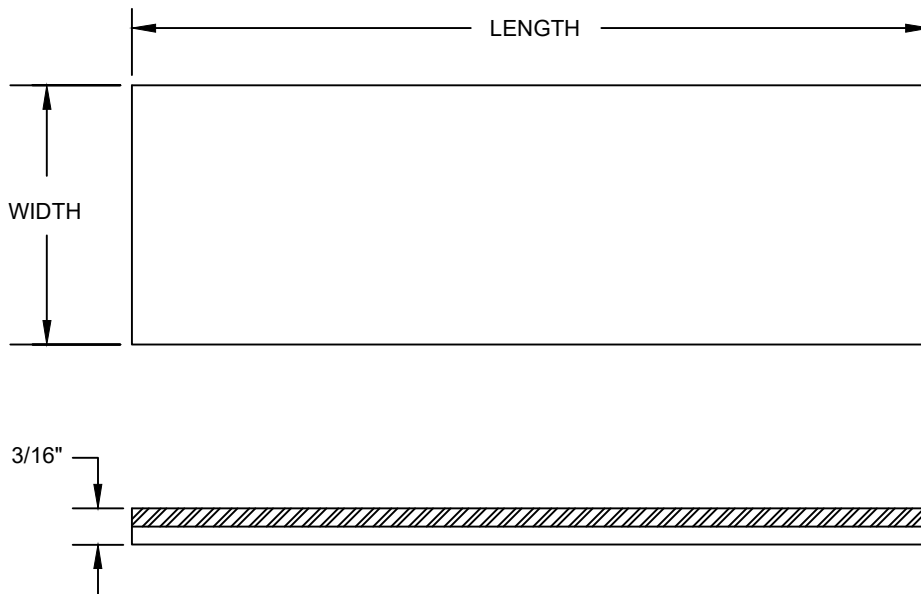
PTFE BEARING PAD

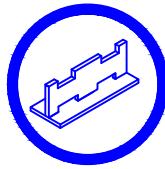
MATERIAL - CARBON STEEL & T-316 STAINLESS BACKING PLATE

**BEARING PADS ARE CONSTRUCTED OF FILLED PTFE
BONDED TO FLAT 10 GAUGE RIGID BACK UP STEEL**

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, WIDTH AND LENGTH OF BEARING PLATE





K-426 T-PIPE ANCHOR

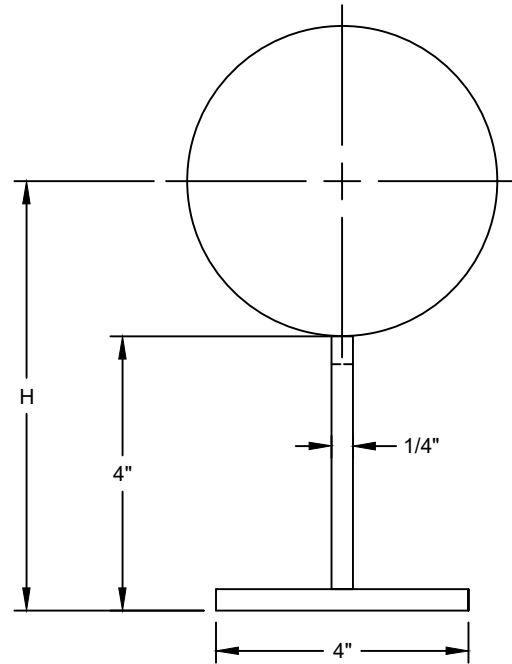
SIZE RANGE - 2" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

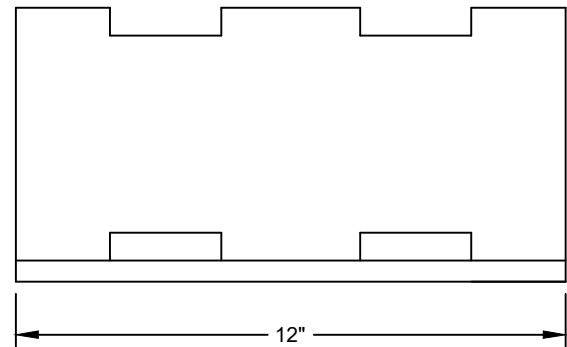
FUNCTION - DESIGNED TO ANCHOR PIPE AND RESTRICT PIPE MOVEMENT IN EVERY DIRECTION. THE PIPE IS NORMALLY WELDED DIRECTLY TO THE ANCHOR AND THE ANCHOR CHAIR IS EITHER BOLTED OR WELDED TO THE SUPPORTING STEELS STRUCTURE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER AND SIZE



PIPE SIZE	H
2	5-3/16
2-1/2	5-7/16
3	5-3/4
3-1/2	6
4	6-1/4
5	6-7/8
6	7-5/16
8	8-5/16
10	9-3/8
12	10-3/8
14	11
16	12
18	13
20	14
24	16



K-426C

T-PIPE ANCHOR WITH CLAMPS

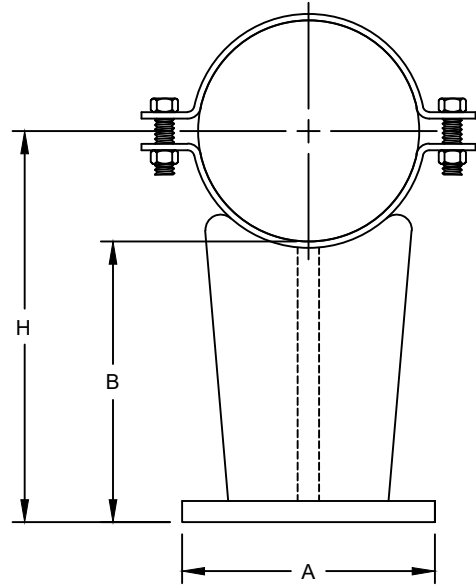
SIZE RANGE - 2" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

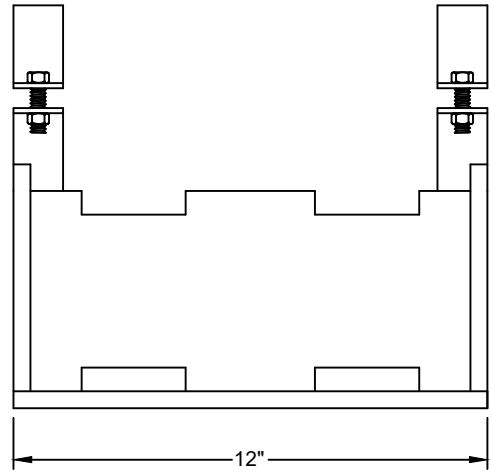
FUNCTION - DESIGNED TO ANCHOR PIPE AND RESTRICT PIPE MOVEMENT IN EVERY DIRECTION. THE PIPE IS NORMALLY WELDED DIRECTLY TO THE ANCHOR AND THE ANCHOR CHAIR IS EITHER BOLTED OR WELDED TO THE SUPPORTING STEELS STRUCTURE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER AND SIZE



PIPE SIZE	A	B	H	APPROX. WEIGHT PER 100
2	4	4	5-3/16	8
2-1/2	4	4	5-7/16	8
3	4	4	5-3/4	8
3-1/2	4	4	6	8
4	4	4	6-1/4	8
5	4	4	6-13/16	8
6	4	4	7-5/16	10
8	4	4	8-5/16	10
10	4	4	9-3/8	10
12	4	4	10-3/8	10
14	4	4	11	11
16	4	4	12	11
18	7	4	13	18
20	7	4	14	19
24	7	4	16	20



K-426G

T-PIPE ANCHOR WITH GUSSETS

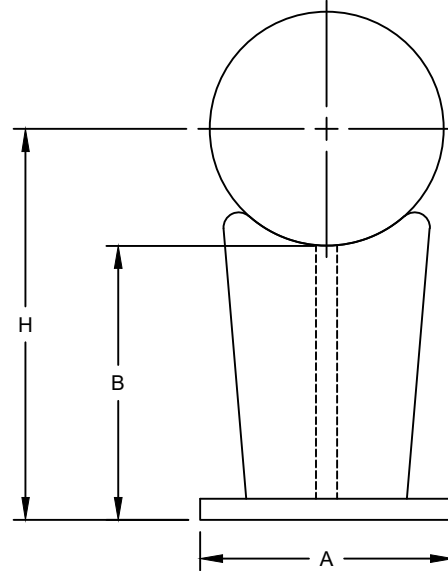
SIZE RANGE - 2" THRU 24" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

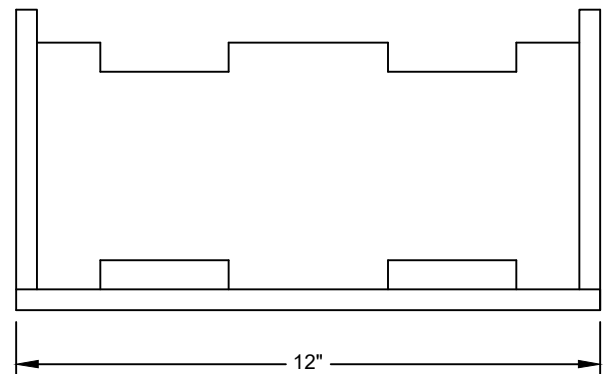
FUNCTION - DESIGNED TO ANCHOR PIPE AND RESTRICT PIPE MOVEMENT IN EVERY DIRECTION. THE PIPE IS NORMALLY WELDED DIRECTLY TO THE ANCHOR AND THE ANCHOR CHAIR IS EITHER BOLTED OR WELDED TO THE SUPPORTING STEELS STRUCTURE.

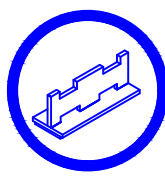
FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER AND SIZE



PIPE SIZE	A	B	H	APPROX. WEIGHT PER 100
2	4	4	5-3/16	8
2-1/2	4	4	5-7/16	8
3	4	4	5-3/4	8
3-1/2	4	4	6	8
4	4	4	6-1/4	8
5	4	4	6-13/16	8
6	4	4	7-5/16	10
8	4	4	8-5/16	10
10	4	4	9-3/8	10
12	4	4	10-3/8	10
14	4	4	11	11
16	4	4	12	11
18	7	4	13	18
20	7	4	14	19
24	7	4	16	20





K-427

T-PIPE SLIDE

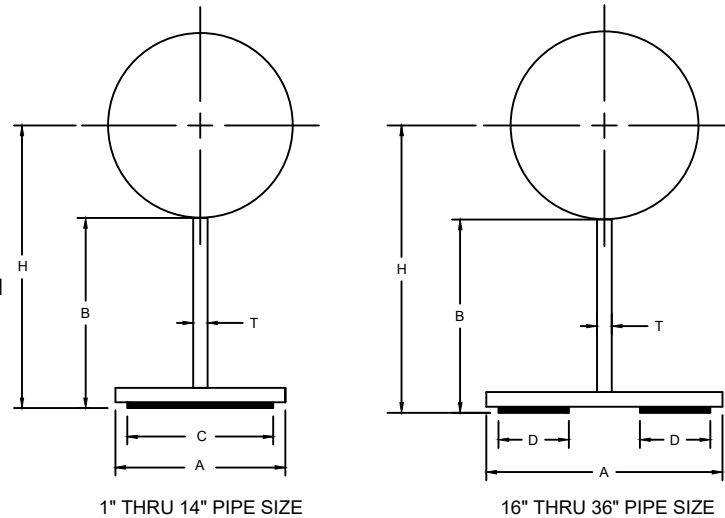
SIZE RANGE - 1" THRU 36" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS STEEL

FUNCTION - AN ECONOMICAL SLIDING SUPPORT FOR ALL PIPE SIZES SUBJECT TO MOVEMENT IN TO TWO PLANES. DESIGNED FROM MINIMUM HEAT LOSS TRANSMISSION THROUGH THE SHOE. CAN BE WELDED OR CLAMPED TO THE PIPE. USE ONLY WITH PTFE SLIDE PLATE

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH

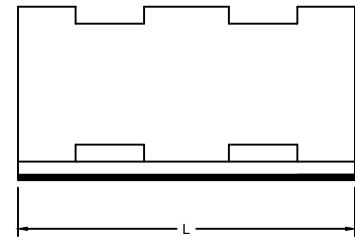


1" THRU 14" PIPE SIZE

16" THRU 36" PIPE SIZE

TYPE 1 (2" INSULATION) MAX. 4" TRAVEL

PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-1/2	2-3/4	1-1/2	-	3	6	1/4	6000	2
5-8	3	3-1/4	2	-	3	6	5/16	8000	3
10-14	4	3-1/4	3	-	3	6	1/4	12000	3
16-20	6	3-1/4	-	2	3	6	1/4	16000	5
24-30	6	3-1/4	-	2	3	6	1/4	16000	5



TYPE 2 (3" INSULATION) MAX. 6" TRAVEL

PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-11/16	4-1/4	1-1/2	-	4	9	3/16	6000	4
5-8	4	4-1/4	2-1/2	-	4	9	1/4	10000	5
10-14	4	4-1/4	3	-	4	9	1/4	12000	6
16-20	6-1/2	4-1/4	-	2	4	9	1/4	16000	10
24-30	6-1/2	4-1/4	-	2	4	9	1/4	16000	10
36	8	4-1/4	-	2	4	9	3/8	16000	13

H DIMENSIONS

PIPE SIZE	TYPE 1	TYPE 2	TYPE 3
1	3-3/8	4-7/8	5-7/8
1-1/4	3-9/16	5-1/16	6-1/16
1-1/2	3-11/16	5-3/16	6-3/16
2	3-15/16	5-7/16	6-7/16
2-1/2	4-3/16	5-11/16	6-11/16
3	4-1/2	6	7
3-1/2	4-3/4	6-1/4	7-1/4
4	5	6-1/2	7-1/2
5	6	7	8
6	6-9/16	7-9/16	8-9/16
8	7-9/16	8-9/16	9-9/16
10	8-5/8	9-5/8	10-5/8
12	9-5/8	10-5/8	11-5/8
14	10-1/4	11-1/4	12-1/4
16	11-1/4	12-1/4	14-1/4
18	12-1/4	13-1/4	15-1/4
20	13-1/4	14-1/4	16-1/4
24	15-1/4	16-1/4	18-1/4
30	18-1/4	19-1/4	21-1/4
36	-	22-1/4	24-1/4

TYPE 3 (4" INSULATION) MAX. 9" TRAVEL

PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-11/16	5-1/4	1-1/2	-	6	9	3/16	6000	5
5-8	4	5-1/4	2-1/2	-	6	9	1/4	10000	8
10-14	4	5-1/4	3	-	6	9	1/4	12000	8
16-20	6-1/2	6-1/4	-	2	6	9	1/4	16000	15
24-30	6-1/2	6-1/4	-	2	6	9	1/4	16000	15
36	8	6-1/4	-	2	6	9	3/8	16000	21



K-427C

T-PIPE SLIDE WITH CLAMPS

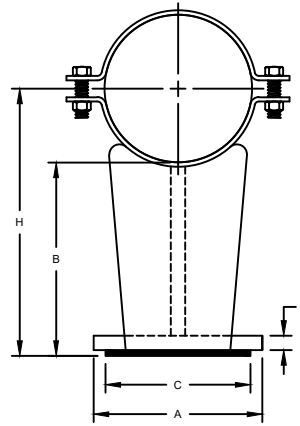
SIZE RANGE - 1" THRU 36" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS STEEL

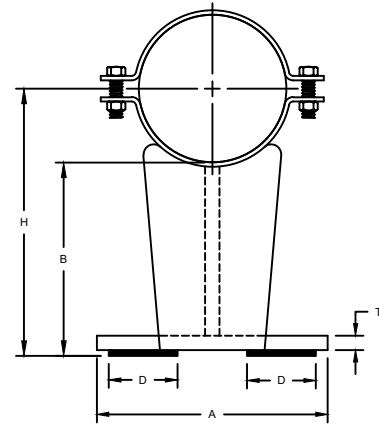
FUNCTION - AN ECONOMICAL SLIDING SUPPORT FOR ALL PIPE SIZES SUBJECT TO MOVEMENT IN TO TWO PLANES. DESIGNED FROM MINIMUM HEAT LOSS TRANSMISSION THROUGH THE SHOE. CAN BE WELDED OR CLAMPED TO THE PIPE. USE ONLY WITH PTFE SLIDE PLATE

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

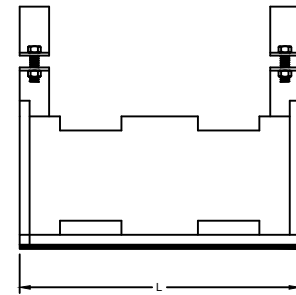
ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



1" THRU 14" PIPE SIZE



16" THRU 36" PIPE SIZE



TYPE 1 (2" INSULATION) MAX. 4" TRAVEL

PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-1/2	2-3/4	1-1/2	-	3	6	1/4	6000	2
5-8	3	3-1/4	2	-	3	6	5/16	8000	3
10-14	4	3-1/4	3	-	3	6	1/4	12000	3
16-20	6	3-1/4	-	2	3	6	1/4	16000	5
24-30	6	3-1/4	-	2	3	6	1/4	16000	5

TYPE 2 (3" INSULATION) MAX. 6" TRAVEL

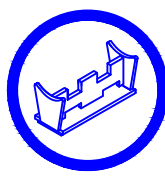
PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-11/16	4-1/4	1-1/2	-	4	9	3/16	6000	4
5-8	4	4-1/4	2-1/2	-	4	9	1/4	10000	5
10-14	4	4-1/4	3	-	4	9	1/4	12000	6
16-20	6-1/2	4-1/4	-	2	4	9	1/4	16000	10
24-30	6-1/2	4-1/4	-	2	4	9	1/4	16000	10
	8	4-1/4	-	2	4	9	3/8	16000	13

TYPE 3 (4" INSULATION) MAX. 9" TRAVEL

PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-11/16	5-1/4	1-1/2	-	6	9	3/16	6000	5
5-8	4	5-1/4	2-1/2	-	6	9	1/4	10000	8
10-14	4	5-1/4	3	-	6	9	1/4	12000	8
16-20	6-1/2	6-1/4	-	2	6	9	1/4	16000	15
24-30	6-1/2	6-1/4	-	2	6	9	1/4	16000	15
36	8	6-1/4	-	2	6	9	3/8	16000	21

H DIMENSIONS

PIPE SIZE	TYPE 1	TYPE 2	TYPE 3
1	3-3/8	4-7/8	5-7/8
1-1/4	3-9/16	5-1/16	6-1/16
1-1/2	3-11/16	5-3/16	6-3/16
2	3-15/16	5-7/16	6-7/16
2-1/2	4-3/16	5-11/16	6-11/16
3	4-1/2	6	7
3-1/2	4-3/4	6-1/4	7-1/4
4	5	6-1/2	7-1/2
5	6	7	8
6	6-9/16	7-9/16	8-9/16
8	7-9/16	8-9/16	9-9/16
10	8-5/8	9-5/8	10-5/8
12	9-5/8	10-5/8	11-5/8
14	10-1/4	11-1/4	12-1/4
16	11-1/4	12-1/4	14-1/4
18	12-1/4	13-1/4	15-1/4
20	13-1/4	14-1/4	16-1/4
24	15-1/4	16-1/4	18-1/4
30	18-1/4	19-1/4	21-1/4
36	-	22-1/4	24-1/4



K-427G

T-PIPE SLIDE WITH GUSSETS

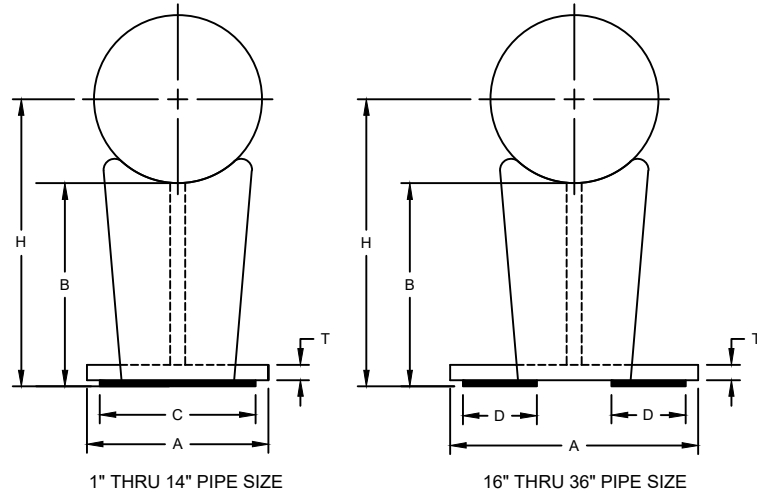
SIZE RANGE - 1" THRU 36" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS STEEL

FUNCTION - AN ECONOMICAL SLIDING SUPPORT FOR ALL PIPE SIZES SUBJECT TO MOVEMENT IN TO TWO PLANES. DESIGNED FROM MINIMUM HEAT LOSS TRANSMISSION THROUGH THE SHOE. CAN BE WELDED OR CLAMPED TO THE PIPE. USE ONLY WITH PTFE SLIDE PLATE

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



TYPE 1 (2" INSULATION) MAX. 4" TRAVEL

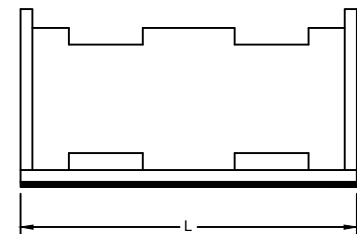
PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-1/2	2-3/4	1-1/2	-	3	6	1/4	6000	2
5-8	3	3-1/4	2	-	3	6	5/16	8000	3
10-14	4	3-1/4	3	-	3	6	1/4	12000	3
16-20	6	3-1/4	-	2	3	6	1/4	16000	5
24-30	6	3-1/4	-	2	3	6	1/4	16000	5

TYPE 2 (3" INSULATION) MAX. 6" TRAVEL

PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-11/16	4-1/4	1-1/2	-	4	9	3/16	6000	4
5-8	4	4-1/4	2-1/2	-	4	9	1/4	10000	5
10-14	4	4-1/4	3	-	4	9	1/4	12000	6
16-20	6-1/2	4-1/4	-	2	4	9	1/4	16000	10
24-30	6-1/2	4-1/4	-	2	4	9	1/4	16000	10
36	8	4-1/4	-	2	4	9	3/8	16000	13

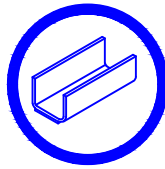
TYPE 3 (4" INSULATION) MAX. 9" TRAVEL

PIPE SIZE	A	B	C	D	E	L	T	MAX LOAD	APPROX. WEIGHT EACH
1-4	2-11/16	5-1/4	1-1/2	-	6	9	3/16	6000	5
5-8	4	5-1/4	2-1/2	-	6	9	1/4	10000	8
10-14	4	5-1/4	3	-	6	9	1/4	12000	8
16-20	6-1/2	6-1/4	-	2	6	9	1/4	16000	15
24-30	6-1/2	6-1/4	-	2	6	9	1/4	16000	15
	8	6-1/4	-	2	6	9	3/8	16000	21



H DIMENSIONS

PIPE SIZE	TYPE 1	TYPE 2	TYPE 3
1	3-3/8	4-7/8	5-7/8
1-1/4	3-9/16	5-1/16	6-1/16
1-1/2	3-11/16	5-3/16	6-3/16
2	3-15/16	5-7/16	6-7/16
2-1/2	4-3/16	5-11/16	6-11/16
3	4-1/2	6	7
3-1/2	4-3/4	6-1/4	7-1/4
4	5	6-1/2	7-1/2
5	6	7	8
6	6-9/16	7-9/16	8-9/16
8	7-9/16	8-9/16	9-9/16
10	8-5/8	9-5/8	10-5/8
12	9-5/8	10-5/8	11-5/8
14	10-1/4	11-1/4	12-1/4
16	11-1/4	12-1/4	14-1/4
18	12-1/4	13-1/4	15-1/4
20	13-1/4	14-1/4	16-1/4
24	15-1/4	16-1/4	18-1/4
30	18-1/4	19-1/4	21-1/4
36	-	22-1/4	24-1/4



K-428

U-PIPE SLIDE PTFE

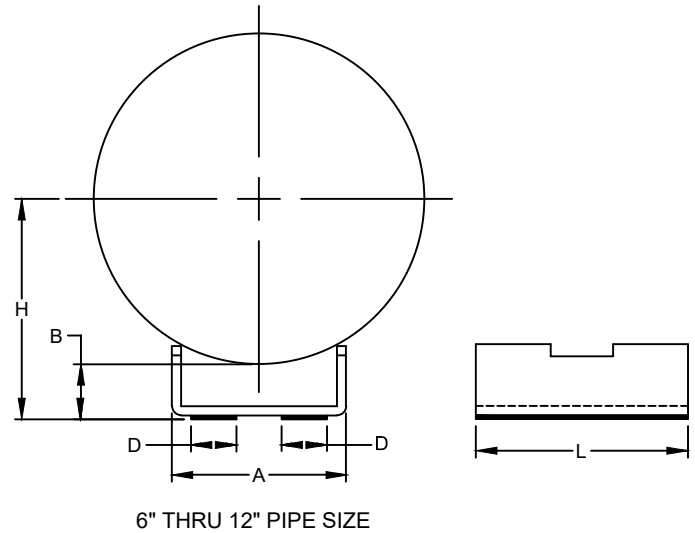
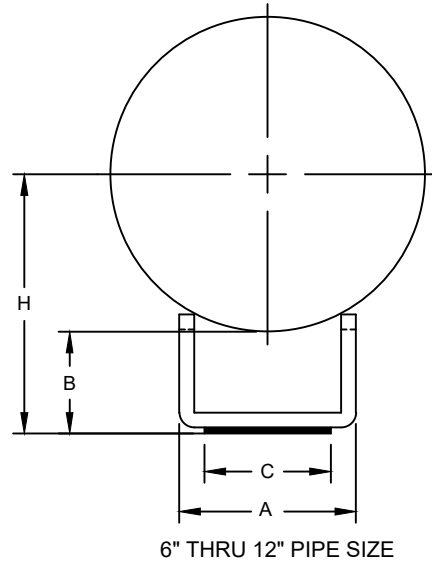
SIZE RANGE - 6" THRU 36" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

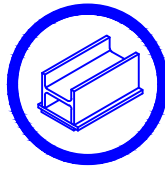
FUNCTION - TO PROVIDE A SUPPORT WITH A LOW CENTER OF GRAVITY FOR GREATER STABILITY ON ALL SIZES OF PIPE WITH BI-DIRECTIONAL MOVEMENTS. RECOMMENDED FOR USE WHERE CONCENTRATED AND ECCENTRIC LOADS TO ROTATE THE PIPE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER AND PIPE SIZE



PIPE SIZE	A	B	C	D	H	L	MAX. TRAVEL	MAX. LOAD	APPROX. WEIGHT PER 100
6	4	3-1/4	2-1/2	-	6	6	4	7000	3
8	4	3-1/4	2-1/2	-	7-13/16	6	4	7000	3
10	6	3-3/4	-	1-1/2	8-1/4	9	7	12000	13
12	6	3-3/4	-	1-1/2	9-3/8	9	7	12000	13
14	7	3-3/4	-	1-1/2	9-3/4	9	7	12000	14
16	7	3-3/4	-	1-1/2	10-7/8	9	7	12000	14
18	9	3-3/4	-	2	11-9/16	9	7	16000	17
20	9	3-3/4	-	2	12-11/16	9	7	16000	17
24	12	4	-	3	14-5/8	12	10	24000	34
30	13	4-1/4	-	3	17-3/4	12	10	24000	31
36	18	4-1/4	-	4	19-7/8	12	10	24000	48



K-429

H-PIPE SLIDE PTFE

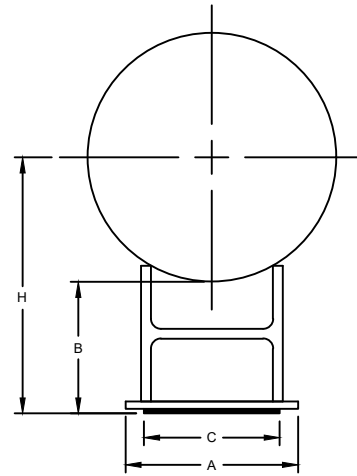
SIZE RANGE - 6" THRU 36" PIPE SIZE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

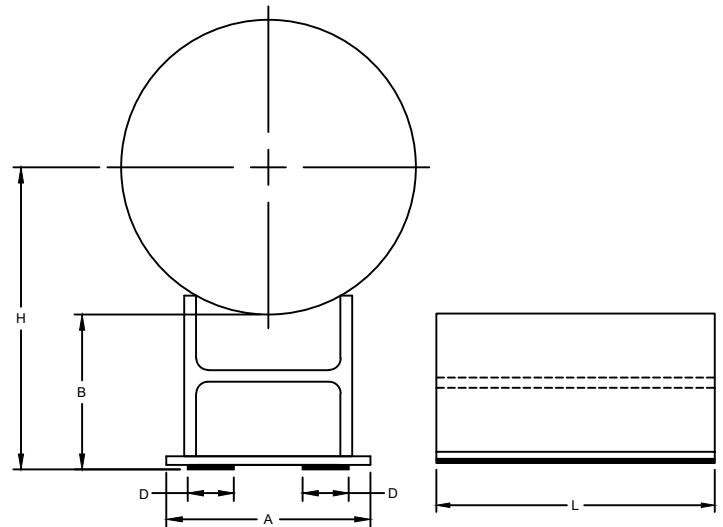
FUNCTION - A HEAVY DUTY PIPE SLIDE SUPPORT FOR LARGER PIPES WITH HEAVY LOADS AT MAXIMUM SPANS AND WHERE MOVEMENT IS LATERAL AS WELL AS AXIAL.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



6" THRU 12" PIPE SIZE



14" THRU 36" PIPE SIZE

PIPE SIZE	A	B	C	D	H	L	MAX. TRAVEL	MAX. LOAD	APPROX. WEIGHT PER 100
6	6	4-1/2	3	-	7-5/16	6	7	12000	1500
8	6	4-1/2	3	-	8-7/16	6	7	12000	1500
10	8	4-1/2	4	-	9-1/8	9	7	16000	1300
12	8	4-1/2	4	-	10-1/4	9	7	16000	1300
14	10	4-1/2	-	2	10-7/16	9	7	16000	1500
16	10	4-1/2	-	2	11-9/16	9	7	16000	1500
18	12	4-5/8	-	2	12-1/4	9	7	16000	2200
20	12	4-5/8	-	2	13-7/16	9	7	16000	2200
24	14	4-3/4	-	3	15-5/16	12	10	24000	4100
30	16	5-3/4	-	3	19-1/4	12	10	24000	5200
36	18	6-1/4	-	3	22-5/8	12	10	24000	5900

K-430

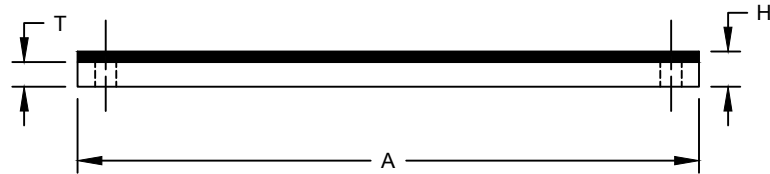
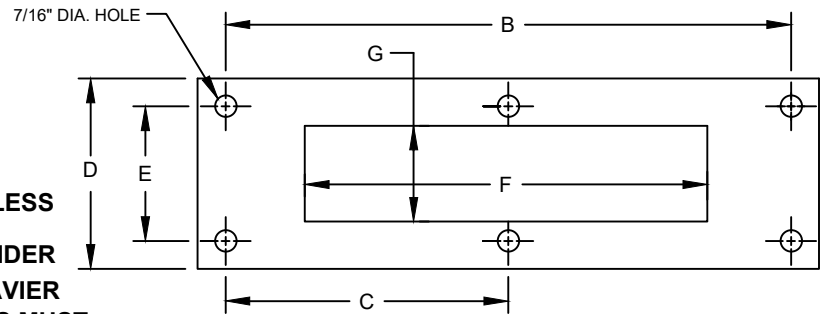
SLIDE PLATE PTFE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - BASE SUPPORT FOR PIPE SLIDES. WIDER AND LONGER PADS CAN BE FURNISHED FOR HEAVIER LOAD AND GREATER MOVEMENTS. SLIDE PLATES MUST BE ATTACHED TO SUPPORTING BEAM OR STRUCTURE BY BOLTING OR TACK WELDING. THEY ARE NOT STRUCTURAL MEMBERS IN THEMSELVES. USE ONLY WITH PTFE PIPE SLIDES.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, TYPE AND SIZE INDICATE IF BOLT HOLES ARE REQUIRED



SIZE	A	B	C	D	E	F	G	H	T	APPROX. WEIGHT
1	6-1/2	5	-	3	2	4	2	3/8	1/8	1
2	10-1/2	9	-	3	2	8	2	3/8	1/8	2
3	14-1/2	13	-	3	2	12	2	3/8	1/8	2
4	18-1/2	17	9-1/4	4	3	16	2	7/16	3/16	5
5	22-1/2	21	11-1/4	4	3	20	2	7/16	3/16	6
6	26-1/2	25	13-1/4	4	3	24	2	7/16	3/16	7
7	7	5-1/2	-	6	4-1/2	4	3	3/8	1/8	2
8	11	9-1/2	-	6	4-1/2	8	3	3/8	1/8	3
9	15	13-1/2	-	6	4-1/2	12	3	7/16	3/16	6
10	21	19-1/2	10-1/2	6	4-1/2	18	3	7/16	3/16	9
11	27	25-1/2	13-1/2	6	4-1/2	24	3	7/16	3/16	11
12	40	38	20	6	4-1/2	36	3	7/16	3/16	17

K-431

PTFE GUIDED SLIDE PLATE

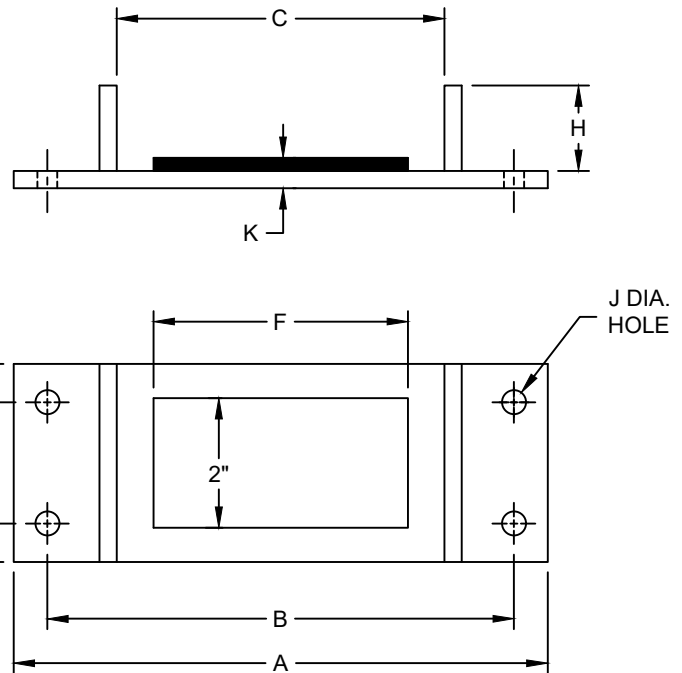
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - SUPPORTS PIPE SLIDE WHERE ONLY HORIZONTAL MOVEMENT IN ONE PLATE IS DESIRED AND PIPE MAY HAVE A TENDENCY TO BUCKLE OR ROTATE. SLIDE PLATES MUST BE ATTACHED TO SUPPORTING BEAM OR STRUCTURE BY BOLTING OR TACK WELDING. THEY ARE NOT STRUCTURAL MEMBERS. USE ONLY WITH PTFE SLIDES.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, TYPE AND SIZE

INDICATE IF BOLT HOLES ARE REQUIRED



SIZE	SLIDE WIDTH	A	B	C	D	E	F	H	J	K	APPROX. WEIGHT
A	2-3/4	5	4-1/4	2-7/8	3	2-1/4	2	1-3/16	5/16	7/16	1
B	3	5	4-1/4	3-1/8	3	2-1/4	2	1-3/16	5/16	7/16	2
C	4	7	6	4-1/8	4	3	3	1-3/4	7/16	1/2	2
D	6	10	8-1/2	6-1/4	6	4-1/2	6	1-7/8	9/16	5/8	5
E	6-1/2	10	8-1/2	6-3/4	6	4-1/2	6-1/2	1-7/8	9/16	5/8	6
F	7	12	10-1/2	7-1/4	6	4-1/2	7	1-7/8	9/16	5/8	7
G	8	12	10-1/2	8-1/4	6	4-1/2	8	1-7/8	9/16	5/8	2
H	9	14	12-1/2	9-1/4	6	4-1/2	9	1-7/8	9/16	5/8	3
J	10	14	12-1/2	10-1/4	6	4-1/2	10	1-7/8	9/16	5/8	6
K	12	15	14	12-1/4	6	4-1/2	10	1-7/8	9/16	5/8	9
L	13	16	15	13-1/4	6	4-1/2	10	2-1/8	9/16	5/8	11
M	14	17	16	14-1/4	6	4-1/2	10	2-1/8	11/16	5/8	17
N	16	21	19	16-1/4	8	6	12	2-1/4	11/16	3/4	17
P	18	23	21	18-1/4	8	6	14	2-1/4	11/16	3/4	17

K-432

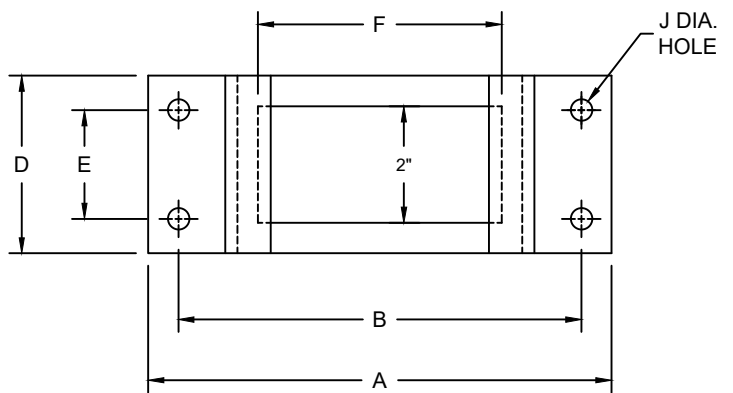
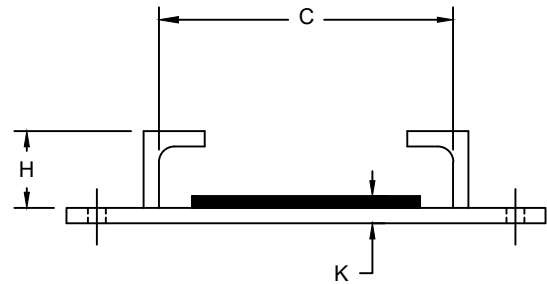
PTFE HOLD DOWN SLIDE PLATE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

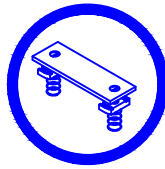
FUNCTION - SUPPORTS PIPE SLIDE WHERE ONLY AXIAL MOVEMENT IS ALLOWED. ACTS AS HORIZONTAL RESTRAINT IN ONE DIRECTION. SLIDE PLATE MUST BE ATTACHED TO SUPPORTING BEAM OR STRUCTURE BY BOLTING OR TACK WELDING. THEY ARE NOT STRUCTURAL MEMBERS IN THEMSELVES. USE ONLY WITH PTFE SLIDES.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, TYPE AND SIZE INDICATE IF BOLT HOLES ARE REQUIRED



SIZE	SLIDE WIDTH	A	B	C	D	E	F	H	J	K	APPROX. WEIGHT
A	2-3/4	5	4-1/4	2-7/8	3	2-1/4	2	1-7/16	5/16	7/16	2
B	3	5	4-1/4	3-1/8	3	2-1/4	2	1-7/16	5/16	7/16	3
C	4	7	6	4-1/8	4	3	3	1-1/2	7/16	1/2	3
D	6	10	8-1/2	6-1/4	6	4-1/2	6	1-5/8	9/16	5/8	6
E	6-1/2	10	8-1/2	6-3/4	6	4-1/2	6-1/2	1-7/8	9/16	5/8	12
F	8	12	10-1/2	8-1/4	6	4-1/2	7	1-7/8	9/16	5/8	13
G	10	14	12-1/2	10-1/4	6	4-1/2	10	1-7/8	9/16	5/8	14
H	12	15	14	12-1/4	6	4-1/2	10	1-7/8	9/16	5/8	16
J	14	17	16	14-1/4	6	4-1/2	10	2-1/8	9/16	5/8	18
K	16	21	19	16-1/4	8	4-1/2	12	2-1/4	11/16	3/4	21
L	18	23	21	18-1/4	8	4-1/2	14	2-1/4	11/16	3/4	36



K-433

SLIDE PLATE FOR NU-STRUT CHANNEL

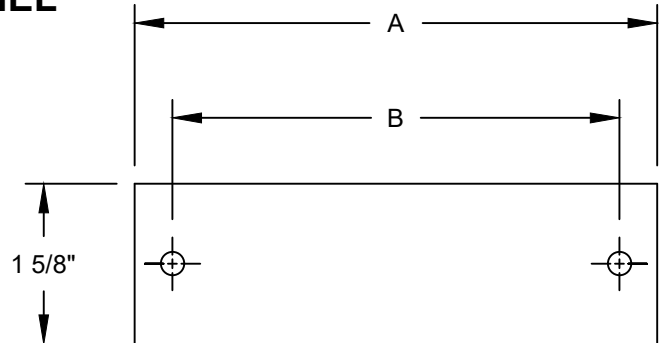
MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - TO SUPPORT PIPE SLIDES USED WITH NU-STRUT CHANNEL. TO ALLOW PIPE TO MOVE FREELY IN THE HORIZONTAL PLANE.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER AND SIZE

FLAT HEAD SCREW AND SPRING NUTS PROVIDED



SIZE	A	B	APPROX. WEIGHT PER 100
1	4	3	41
2	8	7	67
3	12	10	93
4	16	14	119
5	20	18	145
6	24	22	171



K-500

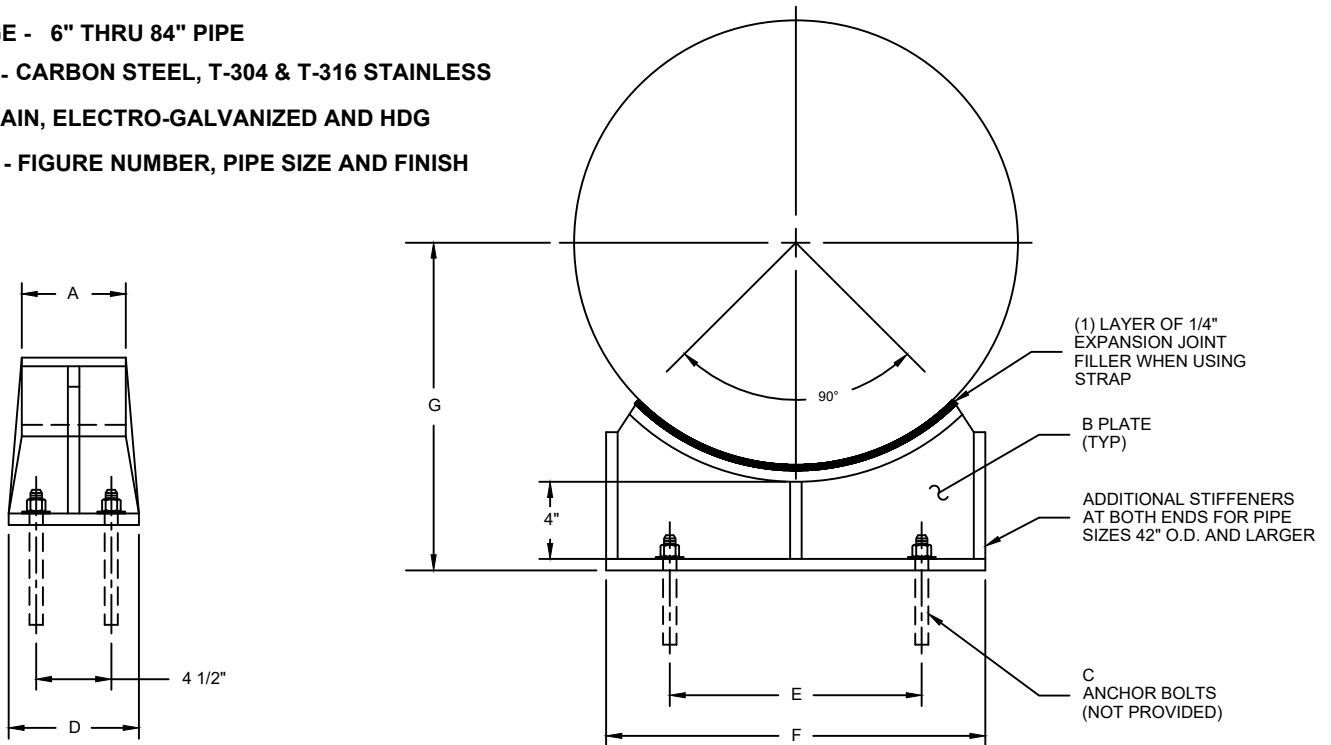
"K" SADDLE SUPPORT

SIZE RANGE - 6" THRU 84" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	PIPE							FLANGE		
	A	B	C	D	E	F	G	E	F	G
6	4	3/8	5/8	6	4-1/2	8	8-5/16	6-1/2	11	10-1/2
8	4	3/8	5/8	6	5	9-1/2	9-5/16	7-1/2	13	11-3/4
10	4	3/8	5/8	6	6	11	10-3/8	9	15	13
12	4	3/8	5/8	6	7	13	11-3/8	10	17	14-1/2
14	4	3/8	5/8	6	8	13	12	11	18	15-1/2
16	4	3/8	5/8	6	9	15	13	12	20	16-3/4
18	4	3/8	5/8	6	10	16	14	13	21	17-1/2
20	5	3/8	5/8	6	10	18	15	15	23	18-3/4
24	5	3/8	5/8	6	13	21	17	16	26	21
30	5	3/8	3/4	7	16	25	20	20	31	24-3/8
36	6	3/8	3/4	7	19	29	23	24	36	28
42	6	1/2	1	8	21	33	26-1/4	27	41	31-3/4
48	6	1/2	1	8	24	38	29-1/4	30	46	35
54	6	1/2	1	8	28	42	32-1/4	34	50	38-3/8
60	6	1/2	1-1/8	8	32	46	35-1/4	36	56	41-3/4
66	6	1/2	1-1/8	8	33	51	38-1/4	40	61	45-1/4
72	6	1/2	1-1/8	8	36	55	41-1/4	44	65	48-1/2
84	10	3/4	1-1/2	12	48	74	47-3/4	46	68	55-5/8



K-501

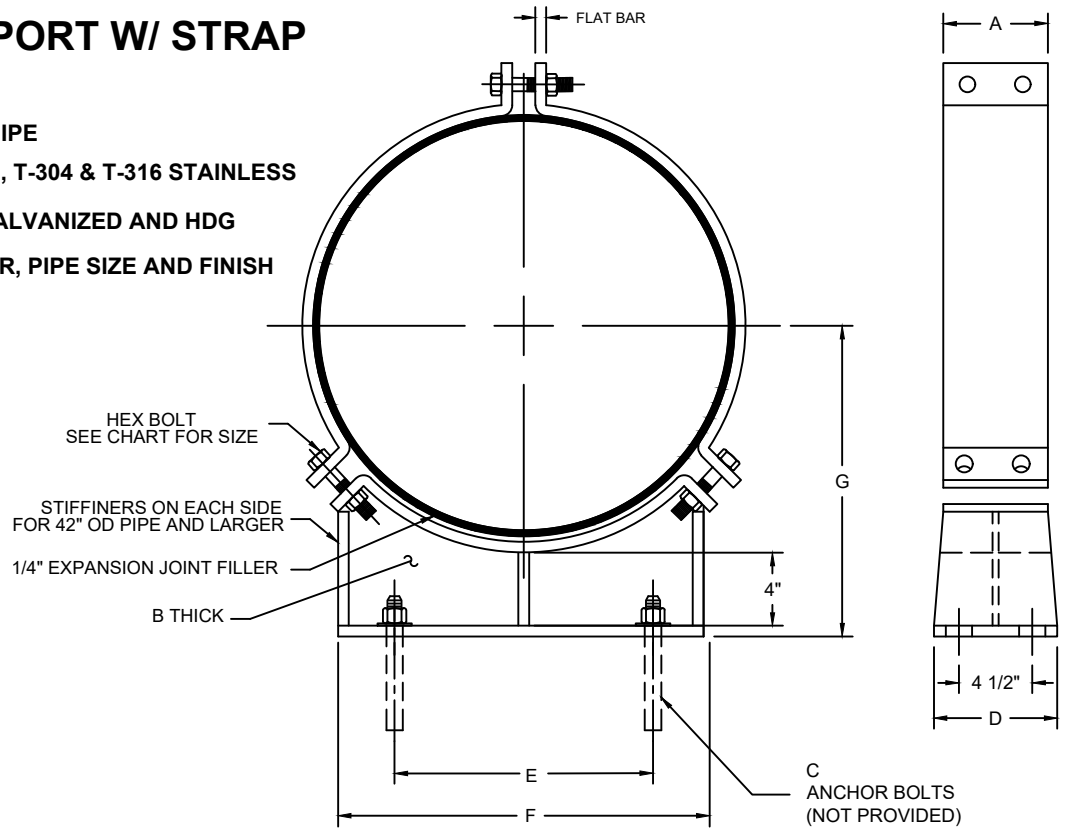
"K" SADDLE SUPPORT W/ STRAP

SIZE RANGE - 6" THRU 84" PIPE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND FINISH



PIPE SIZE	PIPE						FLANGE			FLAT BAR	BOLT SIZE	
	A	B	C	D	E	F	G	E	F			G
6	4	3/8	5/8	6	4-1/2	8	8-5/16	6-1/2	11	10-1/2	1/4"	1/2"
8	4	3/8	5/8	6	5	9-1/2	9-5/16	7-1/2	13	11-3/4	1/4"	1/2"
10	4	3/8	5/8	6	6	11	10-3/8	9	15	13	1/4"	1/2"
12	4	3/8	5/8	6	7	13	11-3/8	10	17	14-1/2	1/4"	1/2"
14	4	3/8	5/8	6	8	13	12	11	18	15-1/2	1/4"	1/2"
16	4	3/8	5/8	6	9	15	13	12	20	16-3/4	1/4"	1/2"
18	4	3/8	5/8	6	10	16	14	13	21	17-1/2	1/4"	1/2"
20	5	3/8	5/8	6	10	18	15	15	23	18-3/4	3/8"	5/8"
24	5	3/8	5/8	6	13	21	17	16	26	21	3/8"	5/8"
30	5	3/8	3/4	7	16	25	20	20	31	24-3/8	3/8"	5/8"
36	6	3/8	3/4	7	19	29	23	24	36	28	3/8"	3/4"
42	6	1/2	1	8	21	33	26-1/4	27	41	31-3/4	3/8"	3/4"
48	6	1/2	1	8	24	38	29-1/4	30	46	35	3/8"	3/4"
54	6	1/2	1	8	28	42	32-1/4	34	50	38-3/8	3/8"	3/4"
60	6	1/2	1-1/8	8	32	46	35-1/4	36	56	41-3/4	3/8"	3/4"
66	6	1/2	1-1/8	8	33	51	38-1/4	40	61	45-1/4	3/8"	3/4"
72	6	1/2	1-1/8	8	36	55	41-1/4	44	65	48-1/2	3/8"	3/4"
84	10	3/4	1-1/2	12	48	74	47-3/4	46	68	55-5/8	3/8"	3/4"

K-502

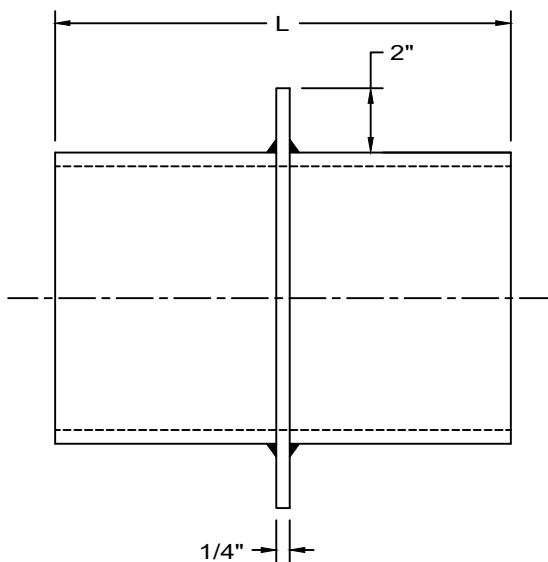
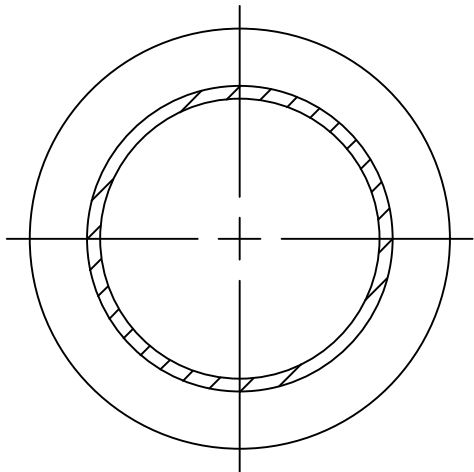
STEEL WALL SLEEVE

MATERIAL - CARBON STEEL, T-304 & T-316 STAINLESS

FUNCTION - WALL PENETRATION SLEEVE PROVIDE A CORROSION-RESISTANT SEALING SURFACE FOR OR ANY CONCRETE BARRIER. 2" WATER-STOP TO BOTH STABILITY AND PROTECTION AGAINST MOISTURE PENETRATING THE WALL.

FINISH - PLAIN, ELECTRO-GALVANIZED AND HDG

ORDER BY - FIGURE NUMBER, PIPE SIZE AND LENGTH



SLEEVE SIZE	O.D.	I.D.
2	2-3/8	2
2-1/2	2-7/8	2-1/2
3	3-1/2	3
3-1/2	4	3-1/2
4	4-1/2	4
5	5-5/16	5
6	6-5/8	6
8	8-5/8	8
10	10-3/4	10
12	12-3/4	12
14	14	13-1/4
16	16	15-1/4
18	18	17-1/4
20	20	19-1/4
22	22	21-1/4
24	24	23-1/4
26	26	25-1/4
28	28	27-1/4
30	30	29-1/4
32	32	31-1/4
34	34	33-1/4
36	36	35-1/4
38	38	37-1/4
40	40	39-1/4
42	42	41-1/4
44	44	43-1/4
46	46	45-1/4
48	48	47-1/4
50	50	49-1/4
52	52	51-1/4

KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

STEEL PIPE DATA

SCHEDULE 40 & 80

PIPE SIZE	SCHEDULE NO.	O.D.	WALL THICK	WT. PER FOOT	WT. OF WATER PER FT/LBS
3/8	40	.675	.675	.091	.091
	80		.126	.738	.061
1/2	40	.840	.109	.850	.132
	80		.147	1.087	.101
3/4	40	1.050	.113	1.130	.230
	80		.154	1.473	.186
1	40	1.315	.133	1.678	.374
	80		.179	2.171	.311
1-1/4	40	1.660	.140	2.272	.647
	80		.191	2.995	.555
1-1/2	40	1.900	.145	2.717	.882
	80		.200	3.631	.765
2	40	2.375	.154	3.652	1.452
	80		.218	5.022	1.279
2-1/2	40	2.875	.203	5.790	2.072
	80		.276	7.660	1.834
3	40	3.500	.216	7.570	3.200
	80		.300	10.250	2.860
3-1/2	40	4.000	.216	9.110	4.280
	80		.318	12.510	3.850
4	40	4.500	.237	10.790	5.510
	80		.337	14.980	4.980

PIPE SIZE	SCHEDULE NO.	O.D.	WALL THICK	WT. PER FOOT	WT. OF WATER PER FT/LBS
5	40	5.563	.258	14.620	8.660
	80		.375	20.780	7.870
6	40	6.625	.280	18.970	12.510
	80		.432	28.570	11.290
8	40	8.625	.322	28.550	21.600
	80		.500	43.390	19.800
10	40	10.750	.365	40.480	34.100
	80		.593	64.400	31.100
12	40	12.750	.406	53.500	48.500
	80		.687	88.600	44.000
14	40	14.000	.437	63.00	58.500
	80		.750	107.00	51.200
16	40	16.000	.500	83.000	76.500
	80		.843	137.000	69.700
18	40	18.000	.203	5.790	2.072
	80		.276	7.660	1.834
3	40	3.500	.216	7.570	3.200
	80		.300	10.250	2.860
3-1/2	40	4.000	.216	9.110	4.280
	80		.318	12.510	3.850
30	20	30.000	.500	158.000	286.000
	36	API	36.000	.500	190.000

COPPER TUBE

TYPE L

PIPE SIZE	O.D. TUBING	O.D.	WALL THICK	WT. PER FOOT	WT. OF WATER PER FT/LBS
1/4	3/8	.375	.030	.126	.034
3/8	1/2	.500	.035	.198	.062
1/2	5/8	.625	.040	.285	.100
5/8	3/4	.750	.045	.362	.151
3/4	7/8	.875	.045	.455	.209
1	1-1/8	1.125	.050	.655	.357
1-1/4	1-3/8	1.375	.055	.884	.546
1-1/2	1-5/8	1.625	.060	1.14	.757
2	2-1/8	2.125	.070	1.75	1.341
2-1/2	2-5/8	2.625	.080	2.48	2.064
3	3-1/8	3.125	.090	3.33	2.949
3-1/2	3-5/8	3.625	.100	4.29	3.989
4	4-1/8	4.125	.110	5.38	5.188
5	5-1/8	5.125	.125	7.61	8.081
6	6-1/8	6.125	.140	10.20	11.616

COPPER TUBE

TYPE K

PIPE SIZE	O.D. TUBING	O.D.	WALL THICK	WT. PER FOOT	WT. OF WATER PER FT/LBS
1/4	3/8	.375	.035	.145	.032
3/8	1/2	.500	.049	.269	.055
1/2	5/8	.625	.049	.344	.094
5/8	3/4	.750	.049	.418	.144
3/4	7/8	.875	.065	.641	.138
1	1-1/8	1.125	.065	.839	.337
1-1/4	1-3/8	1.375	.065	1.04	.527
1-1/2	1-5/8	1.625	.072	1.36	.743
2	2-1/8	2.125	.083	2.06	1.310
2-1/2	2-5/8	2.625	.095	2.92	2.000
3	3-1/8	3.125	.109	4.00	2.950
3-1/2	3-5/8	3.625	.120	5.12	3.900
4	4-1/8	4.125	.134	6.51	5.060
5	5-1/8	5.125	.160	9.67	8.000
6	6-1/8	6.125	.092	13.87	11.200

KUMAR

PIPE HANGERS & SUPPORT SYSTEMS

CAST IRON PIPE DATA

PIPE SIZE	O.D. C.I. PIPE	WALL THICK	WT. PER FOOT	WT. OF WATER PER FT/LBS
3	3.96	.32	12.20	3.73
4	4.80	.35	16.40	5.72
6	6.90	.38	25.70	12.80
8	9.05	.41	36.70	23.10
10	11.10	.44	48.70	35.50
12	13.20	.48	62.90	51.00
14	15.30	.51	78.80	69.30
16	17.40	.54	95.00	90.30
18	19.50	.58	114.70	114.00
20	21.60	.620	135.90	141.50
24	25.80	.730	190.40	201.00
30	32.00	.850	277.30	312.00
36	36.00	.940	368.90	449.00
42	44.50	1.05	479.10	612.00
48	50.80	1.14	595.20	503.00

STANDARD NO HUB "SOIL PIPE"

PIPE SIZE	O.D.	I.D.
2	2.25	1.89
3	3.25	2.89
4	4.25	3.89
5	5.25	4.87
6	6.25	5.85
8	8.38	7.94
10	10.50	9.98

EXTRA HEAVY "SOIL PIPE"

PIPE SIZE	O.D.	I.D.
2	2.38	2.00
3	3.50	3.00
4	4.50	4.00
5	5.50	5.00
6	6.50	6.00
8	8.62	8.00
10	10.750	10.00