ATLAS ANCHOR

ATLAS ANCHOR

PRODUCT CATALOG

P: (929) 428-0751 • C: (347) 537-9994 • info@atlasanchortesting.com
M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR PULL TESTING

ATLAS ANCHOR

VOLUME 5.3

ATLAS ANCHOR

Atlas Anchor L.L.C was created in 2017 and is based out of New York City. We are a New York & New Jersey registered minority business enterprise (MBE) and a United States Department of Transportation registered disadvantaged business enterprise (DBE). We specialize in nation-wide post installed anchor tension (pull) and shear testing in the field under any conditions. We are also capable of ASTM testing in our ISO certified laboratory and can also do any application specific test that your project needs. We can also supply your project with custom fabrication and specialty metal materials. We carry the industry standard general liability and workers compensation insurance and can add our clients and projects to our policy if needed.

MISSION STATEMENT:

We are dedicated to ensuring public safety and meeting all project scheduling by providing the highest quality pull testing, special testing, and material supplying.

SERVICES & PRODUCTS:

- ASTM testing in an ISO certified laboratory
- Job site tension (pull) & shear testing on all types of concretes anchors
- Special inspections
- Metal fabrication
- Threaded anchors and pipe hanging supplies
- Brand name power tools and accessories
- Professional engineering stamping and designing services (state specific licensing upon request)
- New York City special inspections agency for TR1 & CD5 forms for post installed anchors

ATLAS ANCHOR

MULTI-STRUT METAL FRAMING SYSTEM

Standard Strut, combination and concrete insert channel available in standard lengths or cut into suit. Stocked pre-galvanized, stainless steel and PVC coated. Pipe clips, Strut nuts and a variety of fittings that readily attach to the strut are also available.

NON-METALLIC FRAMING SYSTEM

Fiberglass Strut and fittings are available in both polyester and vinyl ester finishes. Non-metallic structural shapes are also available upon request.

FASTENERS

We stock hex bolts, studs, nuts in carbon steel, galvanized and stainless steel as well as lag bolts tek screws, concrete anchors, adhesive tubes and cartridges and threaded rod.

VIBRATION ISOLATION AND SEISMIC CONTROL

Spring and neoprene hanger isolators, housed and free standing to provide shock and vibration isolation on equipment. Equipment bases, Inertia bases and Isolation rails are available. Seismic control braces to help preserve the safety and operation of plant systems during a seismic event.

PIPE HANGERS

We stock Clevis, Harvard Rollers, Riser Clamps and other various components.

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M.B.E. (Minority Business Enterprise)

NOTES

INTRODUCTION

Since 1984 Industrial Threaded Products, Corp. has specialized in the manufacture and distribution of a complete line of pipe hangers and supports for commercial and industrial applications. Our designs are in accordance with ANSI B31.1 and MSS-SP 58.

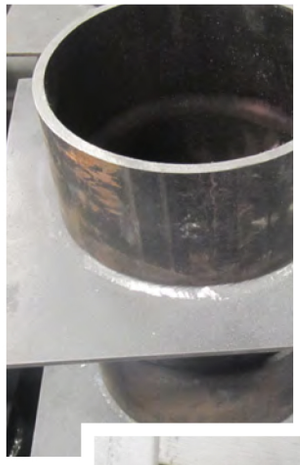
We have extensive capabilities to design and fabricate support systems utilizing the latest technologies that will satisfy all customer requirements. Our sales and engineering group offer a full range of experience in the areas of product design and value engineering are available to discuss your project needs.

Our supports have been specified and installed on major water treatment, pharmaceutical, process piping, petro-chemical, hospital and school buildings as well as many other industrial projects.

Industrial Threaded Products, Corp. products are synonymous in the pipe support industry for quality. Our mission is to support the mechanical industry with timely estimates, efficient designs, and full-line inventories that will allow us to meet our customers critical schedules.

Nicholas Barona

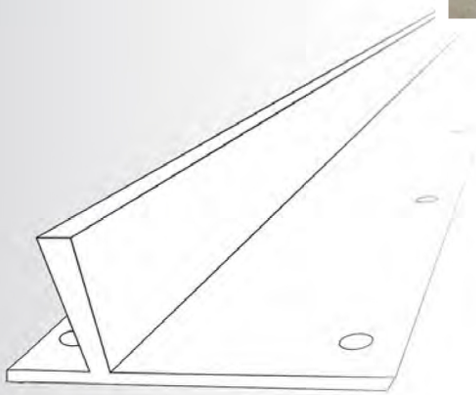
President













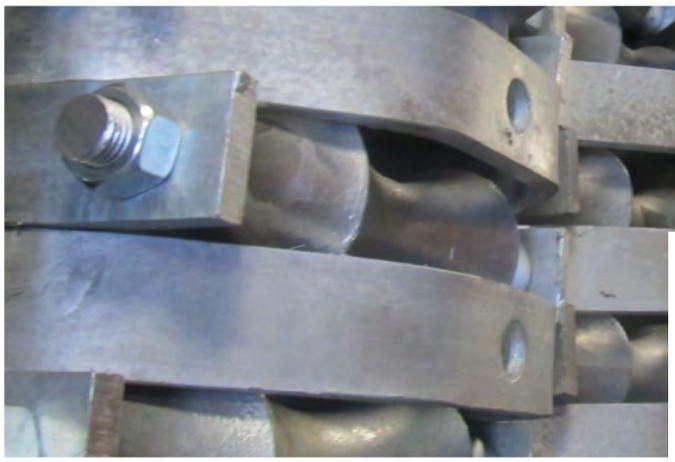


ENGINEERING

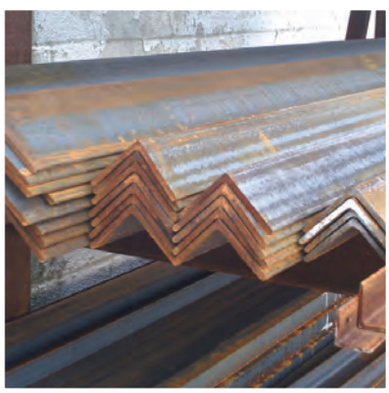
We maintain an engineering department to design pipe hangers and supports for typical and special applications including seismic, wind and snow loading. Our engineers utilize contemporary CAD and computer piping stress analysis programs when needed to meet customer requirements. Registered Professional engineers are on staff.











STRUCTURAL STEEL FABRICATION

Complete fabrication services to meet your support needs in carbon steel, alloy steel, stainless steel and aluminum.

FINISHES

I.T.P. can coat any product it manufactures with plastic, red and yellow oxide primer, epoxy, hot-dip galvanized, electrozinc, copper, COPPER-GARD, chrome, color coordinated finishes and just about any coating required.

ZINC COATING

Electro-Plated Zinc (ASTM B633)

This type of coating is recommended for indoor use in relatively dry areas. This process deposits a coating of zinc on the steel or iron by electrolysis from a bath of zinc salts. This coating is pure zinc and adheres to the steel or iron with a molecular bond. A maximum of .5 mills of zinc can be applied using this method.

Pre-Galvanized Zinc (ASTM A653)

This type of coating is suitable for extended exposure in dry or mildly corrosive atmospheres, but not generally recommended for outdoor use, or in industrial environments. This coating is also referred to as "mill galvanized" or "hot-dip mill galvanized". This process continuously rolls steel coils or sheets through molten zinc. The steel is then cut or slit to size. Coating thickness of .90 ounces per square foot of steel surface (referred to as G90) is used on I.T.P's Figures 310G and 310NFPA. Cut edges are not zinc coated, however, zinc near the uncoated steel becomes a sacrificial anode, which protects the bare areas after a short period of time.

Hot-Dip Galvanized (ASTM 123)

This type of coating provides extended corrosion protection for steel and iron products exposed to extreme humidity commonly evident in outdoor exposure or in uncontrolled atmospheric conditions. This coating provides superior corrosion resistance to that of electro-plating. The process calls for the steel or iron product to be completely immersed into a bath of molten zinc, which creates a metallurgical bond. The minimum coating thickness is 1.5 ounces per square foot per side (3 ounces per square foot of steel or iron). Caution should be taken when specifying Hot-Dip Galvanizing on certain products. Products with threaded components should either have the threads protected from the galvanizing process or chase the threads subsequent to hot-dipping. Products with critical size tolerances should account for the thickness of the coating.

PRIMER

I.T.P. offers Red Primer and Yellow Primer. Both offer a degree of protection from elements. These coatings are also used in applications where painting of the metal is desired. EPA is restricting the use of certain primers. Consult I.T.P. Industries for specific primer chemical components, as well as corrosive capabilities of specific primers.

PLASTIC COATING

Vinyl coating of the metal prevents galvanic reaction between dissimilar metals, provides corrosion resistance, reduces noise, and can be used where glass or plastic pipe contact with metal is not desired.

FINISHES (continued)

EPOXY COATING

I.T.P. Industries offers various epoxy finishes in both commercial and military grades. These finishes offer a high degree of corrosion resistance.

I.T.P. Industries provides its COPPER-GARD finish for copper tubing installations. The finish provides superior corrosion protection and insulates against dissimilar metal contact, thus preventing electrolysis. The process applies a baked-on epoxy paint to steel stamping and iron castings. In the three-step process, the parts are zinc plated to .0002" thick, an epoxy copper colored powder is then applied by an electrostatic method, and finally the coated parts are baked at 180 degrees for 20 minutes.

COPPER PLATING

This coating is designed for copper tubing installations. The coating is intended to identify the product size only. The finish is not intended for corrosion resistance.

CHROME PLATING

This coating is intended to support chrome plated pipe and provides corrosion resistance for commercial installations such as hospitals, schools and prisons.

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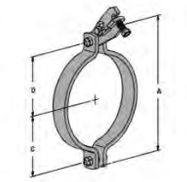


FIG. 4L - Page 129
"In-Line" Sway Brace
Attachment

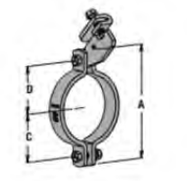


FIG. 4LA - Page 130 - 131
"In-Line" Sway Brace
Attachment



FIG. 4B - Page 132
Pipe Clamp for Sway Bracing

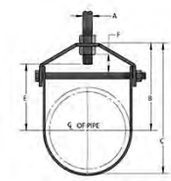


FIG. 11, 11GI - Page 14
ADJUSTABLE
CLEVIS HANGER
WW-H-171-E TYPE 1
A-A-1192 A TYPE 1
MSS SP-58 and SP-69 TYPE 1



FIG. 11CI - Page 15
CLEVIS HANGER FOR
AWWA DUCTILE
IRON AND PVC C-900 PIPE
MSS SP-58 and SP-69 TYPE 1



FIG. 11F - Page 16
FLAT TOP
CLEVIS HANGER

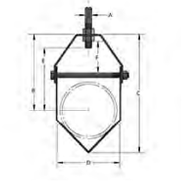


FIG. 11V - Page 17
V-BOTTOM
CLEVIS HANGER



FIG. 11WS - Page 18
CLEVIS HANGER WITH
WELDED SHIELD



FIG. 11X - Page 19
CLEVIS HANGER WITH
EXTENDED BOTTOM
WW-H-171-E TYPE 1
A-A-1192 A TYPE 1
MSS SP-58 and SP-69 TYPE 1



FIG. 12 - Page 158
V-CHANNEL



FIG. 13, 13I & 13L - Page 76
WELDLESS EYE NUT
WW-H-171-E TYPE 17
A-A-1192 A TYPE 17
MSS SP-58 and SP-69 TYPE 17

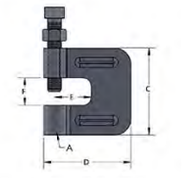


FIG. 21, 21L, & 21LI - Page 45
STEEL C-CLAMP
WW-H-171-E TYPE 23
A-A-1192 A TYPE 23
MSS SP-58 and SP-69 TYPE 23



FIG. 21R - Page 46
BEAM CLAMP
RETAINING STRAP

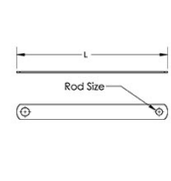


FIG. 22R - Page 46
BEAM CLAMP
RETAINING STRAP

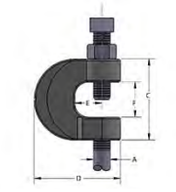


FIG. 23L - Page 47
DUCTILE IRON C-CLAMP
WW-H-171-E TYPE 23
A-A-1192 A TYPE 23
MSS SP-58 and SP-69 TYPE 23

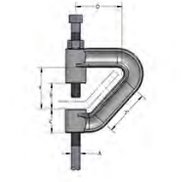


FIG. 24 - Page 47
PURLIN CLAMP

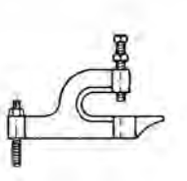


FIG. 25L - Page 48
EXTENDED C-CLAMP

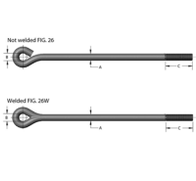


FIG. 26 & 26W - Page 80
PLAIN & WELDED
EYE ROD



FIG. 26DF, 26DFS, 26M - Page 77-79
REGULAR EYEBOLT,
SHOULDER EYEBOLT,
MACHINE EYEBOLT



FIG. 31 - Page 30
ADJUSTABLE
BAND HANGER
WW-H-171-E TYPE 7
A-A-1192 A TYPE 7
MSS SP-58 and SP-69 TYPE 7



FIG. 31CT, 31CTI - Page 31
COPPER PLATED AND EPOXY COATED
(COPPER-GARD),
COPPER TUBING BAND HANGER
WW-H-171-E TYPE 7
A-A-1192 A TYPE 7
MSS SP-58 and SP-69 TYPE 7

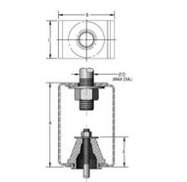


FIG. 34 - Page 103
VIBRATION HANGER
NEOPRENE
"RH"/"RHD" SERIES

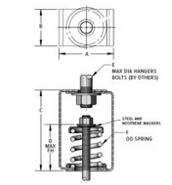


FIG. 35 - Page 104
VIBRATION SPRING-FLEX
HANGER
"SH" SERIES

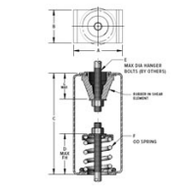


FIG. 36 - Page 105
VIBRATION SPRING-FLEX
AND NEOPRENE HANGER
"RSH"SERIES

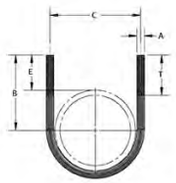


FIG. 37 - Page 159
LIGHT DUTY U-BOLT

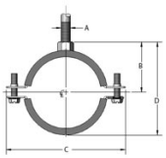


FIG. 40HS - Page 23
HANDY SPLIT
RING HANGER



FIG. 41 - Page 24
SPLIT RING
EXTENSION HANGER
WW-H-171-E TYPE 25
A-A-1192 A TYPE 12
MSS SP-58 and SP-69 TYPE 12

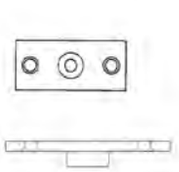


FIG. 41A, 41ACT - Page 24
HANGER FLANGE PLATE

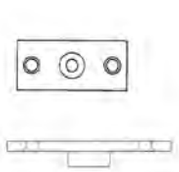


FIG. 41AB - Page 25
FLANGE PLATE

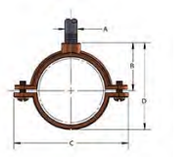


FIG. 41B - Page 25
SPLIT RING HANGER

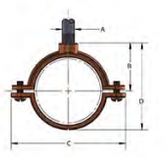


FIG. 41CT - Page 26
COPPER SPLIT RING
EXTENSION HANGER
WW-H-171-E TYPE 25
A-A-1192 A TYPE 12
MSS SP-58 and SP-69 TYPE 12

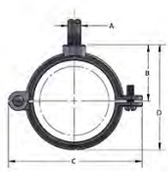


FIG. 41H - Page 27
HINGE TYPE SPLIT RING
EXTENSION HANGER
WW-H-171-E TYPE 25
A-A-1192 A TYPE 12
MSS SP-58 and SP-69 TYPE 12

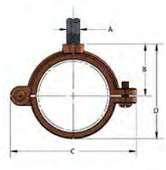


FIG. 41HCT - Page 28
COPPER HINGE TYPE SPLIT RING
EXTENSION HANGER
WW-H-171-E TYPE 25
A-A-1192 A TYPE 12
MSS SP-58 and SP-69 TYPE 12



FIG. 41SSI & 41SXI - Page 29
STAINLESS STEEL SPLIT RING
EXTENSION HANGER
MSS SP-58 and SP-69 TYPE 12



FIG. 47 - Page 80
EYE SOCKET
WW-H-171-E TYPE 16
A-A-1192 A TYPE 16
MSS SP-58 and SP-69 TYPE 16

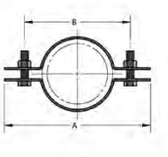


FIG. 48, 49PC - Page 57
PLASTIC PIPE and PLASTIC COATED
PVC RISER CLAMP
WW-H-171-E TYPE 8
A-A-1192 A TYPE 8
MSS SP-58 and SP-69 TYPE 8

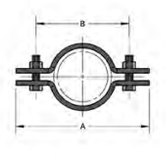


FIG. 50, 50DIP - Page 58 - 59
RISER CLAMP
WW-H-171-E TYPE 8
A-A-1192 A TYPE 8
MSS SP-58 and SP-69 TYPE 8



FIG. 50CT, 50CTI - Page 60
COPPER PLATED AND EPOXY COATED
(COPPER-GARD) COPPER TUBING
RISER CLAMP
WW-H-171-E TYPE 8
A-A-1192 A TYPE 8
MSS SP-58 and SP-69 TYPE 8



FIG. 50HD - Page 62
HEAVY DUTY RISER CLAMP
MSS SP-58 Type 42

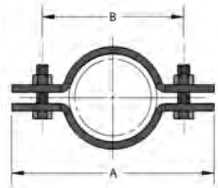


FIG. 50SA - Page 61
SHORT ARM RISER CLAMP
WW-H-171-E TYPE 8
A-A-1192 A TYPE 8
MSS SP-58 and SP-69 TYPE 8

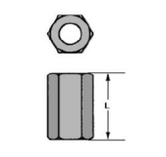


FIG. 51 - Page 81
ROD COUPLING



FIG. 51R - Page 81
REDUCING ROD
COUPLING



FIG. 52 - Page 82
ROUND STEEL WASHER

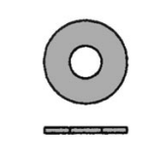


FIG. 52F - Page 82
FENDER WASHER



FIG. 52L - Page 83
LOCK WASHER



FIG. 53 - Page 83
ANGLE BRACKET
WW-H-171-E TYPE 35
A-A-1192 A TYPE 34
MSS SP-58 and SP-69 TYPE 34



FIG. 54 - Page 84
CONTINUOUS
THREADED ROD

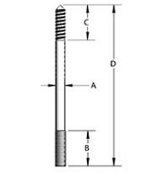


FIG. 55 - Page 84
HANGER BOLTS

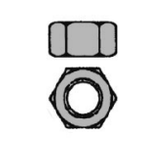


FIG. 56 - Page 85
STANDARD HEX NUT

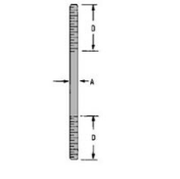


FIG. 57 - Page 85
HANGER ROD



FIG. 58 - Page 86
HEX HEAD BOLT



FIG. 59 - Page 86
DRIVE SCREW

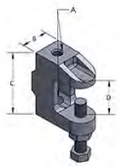


FIG. 60G - Page 49
1/4" BEAM CLAMP

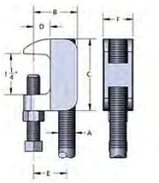


FIG. 61 - Page 49
TOP BEAM CLAMP
A-A-1192 A TYPE 19
MSS SP-58 and SP-69 TYPE 19

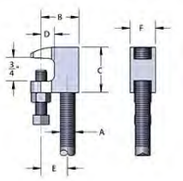


FIG. 62 - Page 50
JUNIOR TOP BEAM CLAMP
A-A-1192 A TYPE 19
MSS SP-58 and SP-69 TYPE 19

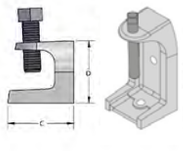


FIG. 63 & 63EWM - Page 50 - 51
ELECTRICAL ROD
SUPPORT CLAMP,
EXTENDED WIDE
MOUTH CLAMP

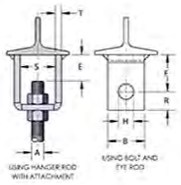


FIG. 66L & 66W - Page 160
WELDING BEAM ATTACHMENT WITH
AND WITHOUT BOLT
WW-H-171-E TYPE 22
A-A-1192 A TYPE 22
MSS SP-58 and SP-69 TYPE 22

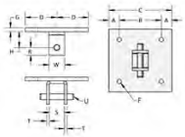


FIG. 67 - Page 161
CONCRETE CLEVIS PLATE

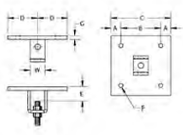


FIG. 68 - Page 161
CONCRETE ROD
ATTACHMENT

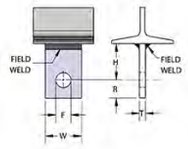


FIG. 69 - Page 162
STRUCTURAL WELDING LUG
LONG AND SHORT
WW-H-171-E TYPE 57
A-A-1192 A TYPE 57
MSS SP-58 and SP-69 TYPE 57

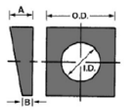


FIG. 72 - Page 87
BEVEL WASHER



FIG. 73 - Page 87
DROP IN ANCHOR

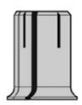


FIG. 73SD - Page 88
MINI DROP-IN ANCHORS



FIG. 74 - Page 88
HEX LAG SCREW

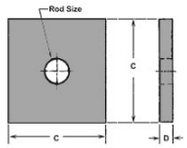


FIG. 75 - Page 89
STEEL WASHER PLATE

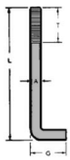


FIG. 77 - Page 89
ANCHOR BOLT



FIG. 79 - Page 90
DOUBLE EXTENSION SHIELDS

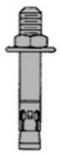


FIG. 80 - Page 91
WEDGE ANCHOR

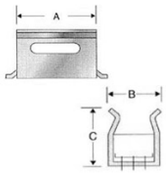


FIG. 81, 81N - Page 92
CONCRETE INSERT,
CONCRETE INSERT NUT
WW-H-171-E TYPE 19
A-A-1192 A TYPE 18
MSS SP-58 and SP-69 TYPE 18



FIG. 83 - Page 92
SPRING WING TOGGLE&BOLT



FIG. 84 - PAGE 93
SPRING WING TOGGLE HEAD
ONLY

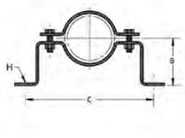


FIG. 95 - Page 63
OFFSET PIPE CLAMP

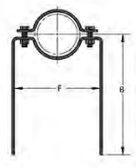


FIG. 97 - Page 64
EXTENDED PIPE CLAMP

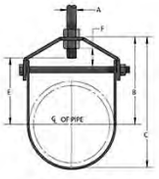


FIG. 110GI - Page 20
ADJUSTABLE CLEVIS HANGER,
LIGHTWEIGHT
WW-H-171-E TYPE 12
MSS SP-58 and SP-69 TYPE 1

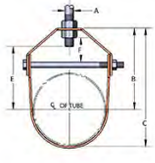


FIG. 110CT, 110CTI - Page 21
COPPER PLATED AND COPPER EPOXY
(COPPER-GARD)
TUBING SIZE CLEVIS HANGER.
WW-H-171-E TYPE 12
MSS SP-58 and SP-69 TYPE 1

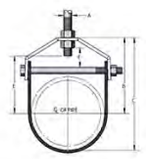


FIG. 110PC - Page 22
ADJUSTABLE CLEVIS HANGER,
PLASTIC COATED
WW-H-171-E TYPE 12
MSS SP-58 and SP-69 TYPE 1



FIG. 114 - Page 93
TURNBUCKLE ADJUSTER
WW-H-171-E TYPE 15
A-A-1192 A TYPE 15
MSS SP-58 and SP-69 TYPE 15

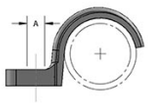


FIG. 126 - Page 117
ONE HOLE CLAMP



FIG. 127CT - Page 35
NATICK HANGER,
COPPER TUBE SIZE

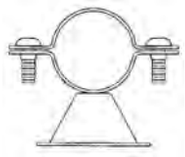


FIG. 129B - Page 36
VAN (BELL) HANGER

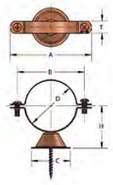


FIG. 129CTP - Page 36
VAN (BELL TYPE)
HANGER, COPPER PLATED



FIG. 131CT - Page 37
MILFORD HANGER,
COPPER TUBE SIZE

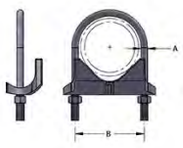


FIG. 136 - Page 163
RIGHT ANGLE CLAMP

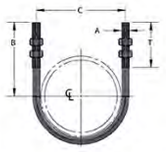


FIG. 137 - Page 164
STANDARD U-BOLT
WITH 4 HEX NUTS
WW-H-171-E TYPE 24
A-A-1192 A TYPE 24
MSS SP-58 and SP-69 TYPE 24

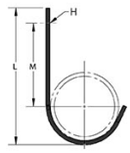


FIG. 145 - Page 165
STRAIGHT J-HOOK

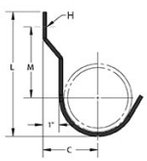


FIG. 146 - Page 165
OFFSET J-HOOK

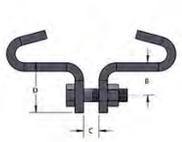


FIG. 150-Page 51
BEAM CLAMP
WW-H-171-E TYPE 21
A-A-1192 A TYPE 21
MSS SP-58 and SP-69 TYPE 21

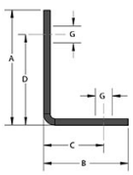


FIG. 152 - Page 166
RETURN LINE ANGLE

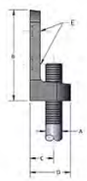


FIG. 153 - Page 166
SIDE BEAM CONNECTOR

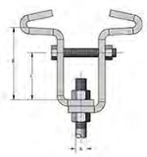


FIG. 155 - Page 52
STEEL BEAM CLAMP

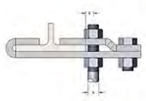


FIG. 156 - Page 52
SIDE STEEL BEAM CLAMP
WW-H-171-E TYPE 53
A-A-1192 A TYPE 25
MSS SP-58 and SP-69 TYPE 25



FIG. 157 - Page 54
EXTENSION PIECE

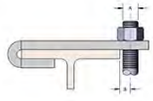


FIG. 158 - Page 53
TOP BEAM HOOK

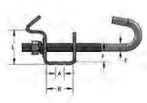


FIG. 159 - Page 53
ADJUSTABLE ROD
BEAM CLAMP
WW-H-171-E TYPE 54
A-A-1192 A TYPE 27
MSS SP-58 and SP-69 TYPE 27



FIG. 167 - Page 167 - 168
PIPE COVERING
PROTECTION SHIELD
WW-H-171-E TYPE 41
A-A-1192 A TYPE 40
MSS SP-58 and SP-69 TYPE 40



FIG. 167MSS - Page 169 - 170
MSS PIPE COVERING
PROTECTION SHIELD
WW-H-171-E TYPE 41
A-A-1192 A TYPE 40
MSS SP-58 and SP-69 TYPE 40



FIG. 180 - Page 118
SHORT CLIP

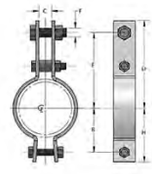


FIG. 189 - Page 65
DOUBLE BOLT PIPE CLAMP
WW-H-171-E TYPE 3
A-A-1192 A TYPE 3
MSS SP-58 and SP-69 TYPE 3

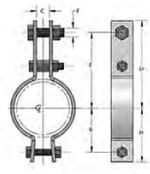


FIG. 189A - Page 66
ALLOY DOUBLE
BOLT PIPE CLAMP
WW-H-171-E TYPE 3
A-A-1192 A TYPE 3
MSS SP-58 and SP-69 TYPE 3

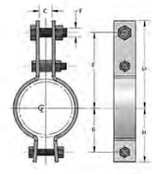


FIG. 189H - Page 67
HEAVY DUTY DOUBLE BOLT
PIPE CLAMP
WW-H-171-E TYPE 3
A-A-1192 A TYPE 3
MSS SP-58 and SP-69 TYPE 3

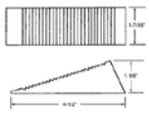


FIG. 200 - Page 171
BATH TUB WEDGE

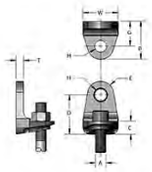


FIG. 202 - Page 171
SIDE BEAM BRACKET

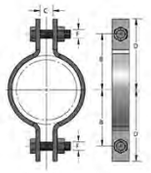


FIG. 212 & 212DIP - Page 68 - 69
STANDARD STEEL
PIPE CLAMP
WW-H-171-E TYPE 4
A-A-1192 A TYPE 4
MSS SP-58 and SP-69 TYPE 4

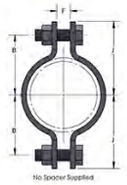


FIG. 216 - Page 70
HEAVY DUTY TWO-BOLT
PIPE CLAMP
WW-H-171-E TYPE 4
A-A-1192 A TYPE 4
MSS SP-58 and SP-69 TYPE 4

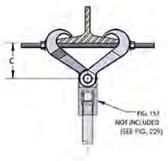


FIG. 218 - Page 54
MALLEABLE IRON
CENTER LOAD BEAM CLAMP

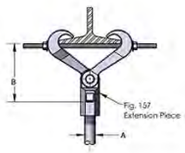


FIG. 229 - Page 55
MALLEABLE BEAM CLAMP WITH
EXTENSION PIECE
WW-H-171-E TYPE 30
A-A-1192 A TYPE 30
MSS SP-58 and SP-69 TYPE 30

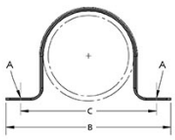


FIG. 231 - Page 119
TWO HOLE PIPE STRAP

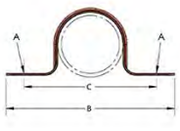


FIG. 231CT - Page 120
COPPER TWO HOLE
TUBING STRAP

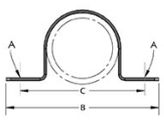


FIG. 231SS & 231OD - Page 121
TWO HOLE PIPE STRAP,
STAINLESS STEEL



FIG. 233 - Page 122
ONE HOLE PIPE STRAP

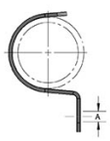


FIG. 233SS & 233OD - Page 123
ONE HOLE PIPE STRAP,
STAINLESS STEEL



FIG. 235 & 235CT - PAGE 124
WIRE PIPE HOOK,
COPPER WIRE PIPE HOOK



FIG. 237, 237CT - Page 38
DWV (DRAIN, WASTE, VENT)
HANGER



FIG. 239, 239CT - Page 39
PERFORTED HANGER
STRAPPING



FIG. 240, 245 - Page 172
STUD GUARD, TRIANGLE
POINT & TWISTED POINT



FIG. 241, 243 - Page 173
NAIL PLATE

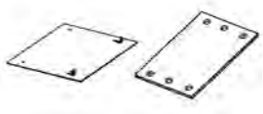


FIG. 242, 242GSN - Page 174
BOCA SAFETY PLATES

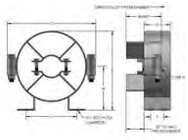


FIG. 255 - Page 125
PIPE ALIGNMENT GUIDE
(SINGLE SPIDER CLAMP)

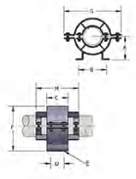


FIG. 256 - Page 126
PIPE ALIGNMENT GUIDE



FIG. 271 - Page 175
ADJUSTABLE ROLLER SUPPORT

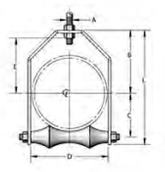


FIG. 272 - Page 40
ADJUSTABLE ROLLER HANGER
WW-H-171-E TYPE 44
A-A-1192 A TYPE 43
MSS SP-58 and SP-69 TYPE 43

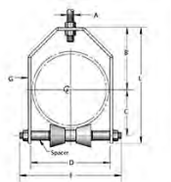


FIG. 272SS - Page 41
ADJUSTABLE ROLLER HANGER,
STAINLESS STEEL
WW-H-171-E TYPE 44
A-A-1192 A TYPE 43
MSS SP-58 and SP-69 TYPE 43

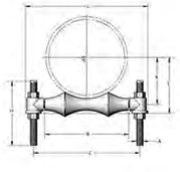


FIG. 273 - Page 42
ADJUSTABLE TWO-ROD
ROLLER SUPPORT

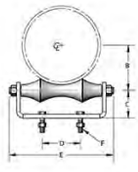


FIG. 275 - Page 100
ROLLER CHAIR

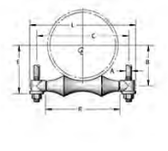


FIG. 277 - Page 43
ADJUSTABLE TWO ROD
ROLLER HANGER
WW-H-171-E TYPE 42
A-A-1192 A TYPE 41
MSS SP-58 and SP-69 TYPE 41

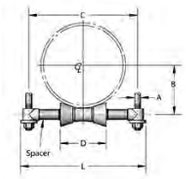


FIG. 277SS - Page 44
ADJUSTABLE TWO ROD
ROLLER HANGER, STAINLESS STEEL
WW-H-171-E TYPE 42
A-A-1192 A TYPE 41
MSS SP-58 and SP-69 TYPE 41



FIG. 279S & 279SS - Page 101
PIPE ROLL STAND, CARBON STEEL &
304 STAINLESS STEEL
WW-H-171-E TYPE 45
A-A-1192 A TYPE 44
MSS SP-58 and SP-69 TYPE 44

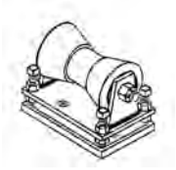


FIG. 280S & 280SS - Page 102
ADJUSTABLE PIPE ROLL STAND,
CARBON STEEL & STAINLESS STEEL
WW-H-171-E TYPE 47
A-A-1192 A TYPE 46
MSS SP-58 and SP-69 TYPE 46

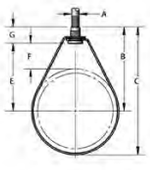


FIG. 310G - Page 32
"EM-LOK" ADJUSTABLE SWIVEL
RING HANGER
WW-H-171-E TYPE 10
A-A-1192 A TYPE 10
MSS SP-58 and SP-69 TYPE 10

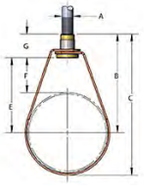


FIG. 310CT, 310CTI - Page 33
COPPER PLATED AND EPOXY COAT-ED (COPPER-
GARD) "EM-LOK" ADJUSTABLE SWIVEL RING
HANGER,TUBING SIZE
WW-H-171-E TYPE 10
A-A-1192 A TYPE 10
MSS SP-58 and SP-69 TYPE 10



FIG. 310NF - Page 34
"EM-LOK" ADJUSTABLE SWIVEL
RING HANGER, NFPA
WW-H-171-E TYPE 10
A-A-1192 A TYPE 10
MSS SP-58 and SP-69 TYPE 10



FIG. 320, 320I - Page 94
TURNBUCKLE ADJUSTER
WW-H-171-E TYPE 13
A-A-1192 A TYPE 13
MSS SP-58 and SP-69 TYPE 13



FIG. 420 - Page 106
PIPE SADDLE SUPPORT
WW-H-171-E TYPE 37
A-A-1192 A TYPE 36
MSS SP-58 and SP-69 TYPE 36



FIG. 421 - Page 107
ADJUSTABLE PIPE SADDLE
SUPPORT WITH COUPLING



FIG. 422-PAGE 107
ADJUSTABLE PIPE
SUPPORT

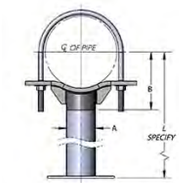


FIG. 425 - Page 108
PIPE SADDLE SUPPORT
WITH U-BOLT
WW-H-171-E TYPE 38
A-A-1192 A TYPE 37
MSS SP-58 and SP-69 TYPE 37



FIG. 426 - Page 109
ADJUSTABLE PIPE
SADDLE SUPPORT
WW-H-171-E TYPE 39
A-A-1192 A TYPE 38
MSS SP-58 and SP-69 TYPE 38

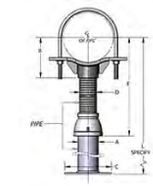


FIG. 427 - Page 110
ADJUSTABLE PIPE
SADDLE SUPPORT
WITH U-BOLT



FIG. 428KT - Page 111
ADJUSTABLE PIPE SADDLE
SUPPORT KIT



FIG. 429KT - Page 112
ADJUSTABLE PIPE
SADDLE SUPPORT KIT,
WITH U-BOLT

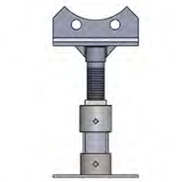


FIG. 431KT - Page 113
ADJUSTABLE BOLT ON FLANGE
SUPPORT KIT

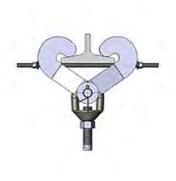


FIG. 450 - Page 56
HEAVY BEAM CLAMP ASSEMBLY
WW-H-171-E TYPE 28 WITHOUT LINKS, TYPE
29 WITH LINKS
A-A-1192 A TYPE 28 WITHOUT LINKS, TYPE
29 WITH LINKS
MSS SP-58 and SP-69 TYPE 28 WITHOUT
LINKS, TYPE 29 WITH LINKS



FIG. 570 - Page 71
FOUR SECTION RODDING
BAND

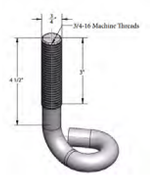


FIG. 575 - Page 72
CORPORATION EYE BOLT

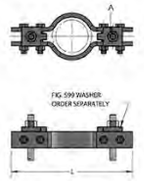


FIG. 595 - Page 72
FOUR BOLT SOCKET CLAMP

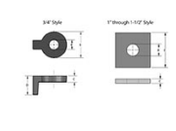


FIG. 599 - Page 73
SOCKET CLAMP WASHER

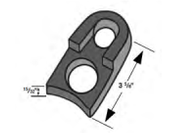


FIG. 599A - Page 73
DUCTILE LUG

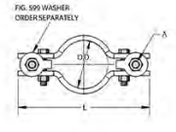


FIG. 600 - Page 74
SOCKET CLAMP

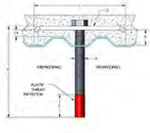


FIG. 685 - Page 94
METAL DECK
ANCHOR BOLT

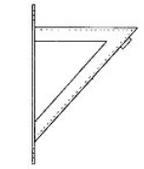


FIG. 800 - Page 97
Light Welded Bracket
WW-H-171-E TYPE 33
MSS SP 58 TYPE 31

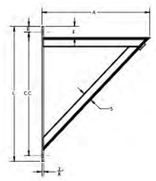


FIG. 801 - Page 98
MEDIUM WELDED BRACKET
WW-H-171-E TYPE 34
A-A-1192 A TYPE 33
MSS SP-58 and SP-69 TYPE 33

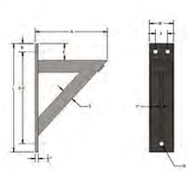


FIG. 802 - Page 98
HEAVY WELDED BRACKET
WW-H-171-E TYPE 34
A-A-1192 A TYPE 33
MSS SP-58 and SP-69 TYPE 33

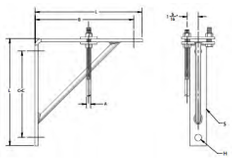


FIG. 820 & 820C - Page 99
LIGHT WELDED
STEEL BRACKET & CLIP
WW-H-171-E TYPE 32
A-A-1192 A TYPE 31
MSS SP-58 and SP-69 TYPE 31

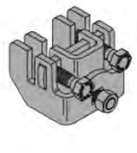


FIG. 825 - Page 133
Bar Joist Sway Brace
Attachment To Steel

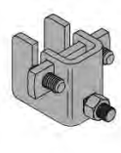


FIG. 825A - Page 133
Bar Joist Sway Brace
Attachment To Steel

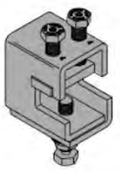


FIG. 828 - Page 134
Universal Swivel Sway Brace
Attachment to Steel

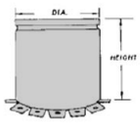


FIG. 900 - Page 114
NAILING SLEEVE

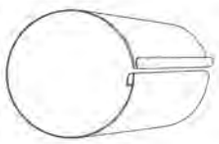


FIG. 901 - Page 114
SPLIT SLEEVE

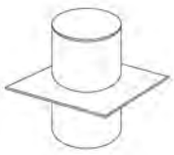


FIG. 902 - Page 114
Q DECK SLEEVE

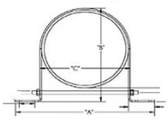


FIG. 903 - Page 75
MANHOLE DROP
PIPE CLAMP

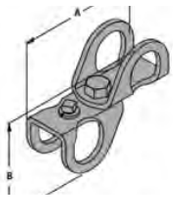


FIG. 907 - Page 135
4-Way Sway Brace
Attachment



FIG. 909, 909I - Page 176
FORGED STEEL CLEVIS
WW-H-171-E TYPE 14
A-A-1192 A TYPE 14
MSS SP-58 and SP-69 TYPE 14

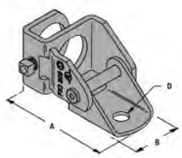


FIG. 909SA - Page 136
No-Thread Swivel Sway Brace
Attachment

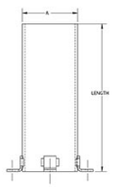


FIG. 910 - Page 115
PIPE SLEEVE
WITH WELDED LUGS

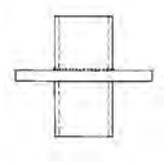


FIG. 915 - Page 115
WATER PROOF SLEEVE

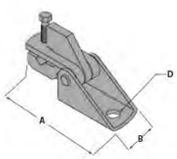


FIG. 980 - Page 137
Universal Swivel Sway Brace
Attachment

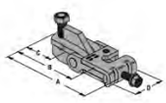


FIG. 981 - Page 138
Fast Attach – Universal Swivel
Sway Brace
Attachment

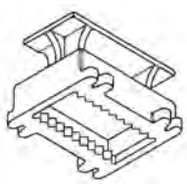


FIG. 982 - Page 177
MALLEABLE CONCRETE INSERT
BOX

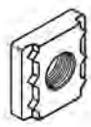


FIG. 983 - Page 178
MALLEABLE IRON
INSERT NUT

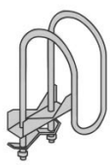


FIG. 1000 - Page 139
"Fast Clamp" Sway Brace
Attachment

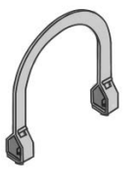


FIG. 1001 - Page 140
Sway Brace Attachment



FIG. 1900 -1905 - Page 179 - 182
PIPE COVERING
PROTECTION SADDLE
WW-H-171-E TYPE 40A & 40B
A-A-1192 A TYPE 39A & 39B
MSS SP-58 and SP-69
TYPE 39A & 39B



FIG. 4000 SERIES - Page 127
PIPE SLIDE TEE
A-A-1192 A TYPE 35

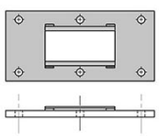


FIG. 4100 SERIES - Page 128
SLIDE PLATE



FIG. 7000, 7001 - Page 184-185
1-5/8" x 1-5/8" 12 Gauge Strut
Solid & Slotted



FIG. 7000A, 7001A - Page 184-185
1-5/8" x 1-5/8" 12 Gauge Back-to-Back Strut Solid & Slotted



FIG. 7100, 7101 - Page 186-187
1-5/8" x 1-5/8" 14 Gauge Strut Solid & Slotted



FIG. 7200, 7201 - Page 188-189
13/16" x 1-5/8" 14 Gauge Strut Solid & Slotted

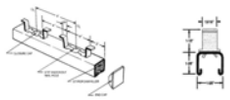


FIG. 7225 - Page 190
1-3/8" x 1-5/8" 12 Gauge Continuous Concrete Insert



FIG. 7230, 7231 - Page 191-192
2-7/16" x 1-5/8" 12 Gauge Strut Solid & Slotted

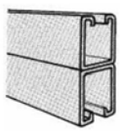


FIG. 7240, 7241 - Page 191-192
2-7/16" x 1-5/8" 12 Gauge Back-to-Back Strut Solid & Slotted

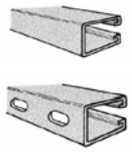


FIG. 7250, 7251 - Page 193-194
3-1/4" x 1-5/8" 12 Gauge Strut Solid & Slotted

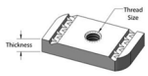


FIG. 8000 - Page 195
Strut Nut Without Spring

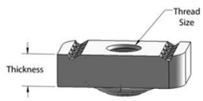


FIG. 8050 - Page 195
Strut Nut With Short Spring

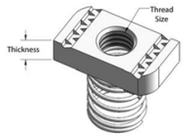


FIG. 8100 - Page 195
Strut Nut With Regular Spring

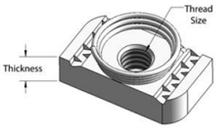


FIG. 8150 - Page 196
Top Spring Strut Nut

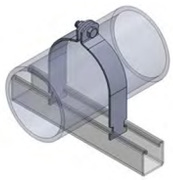


FIG. 8200, 8200SS - Page 196
Rigid IPS Strut Clamp Assembled

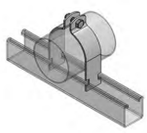


FIG. 8250 - Page 197
OD Tubing Strut Clamp Assembled

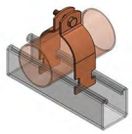


FIG. 8300CT, 8300CTP - Page 198
Epoxy Coated Copper-Gard – Copper Tubing Strut Pipe Clamp

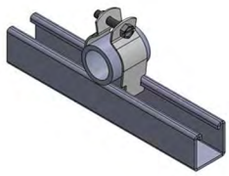


FIG. 8350 - Page 198
Universal Pipe Strut Clamp Assembled



FIG. 8500 - Page 199
Cushion Strut Clamp

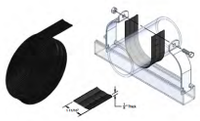


FIG. 8550 - Page 199
Cushion Pipe Wrap

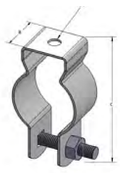


FIG. 8575 - Page 200
Conduit Clamp with bolt & nut

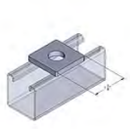


FIG. 9001FF, 9002FF - Page 201
Square Strut Washer, Square Washer with Guides



FIG. 9001FF-9021FF - Page 201-204
Splice & Gusset Plates



FIG. 9022CA-9048AF - Page 205-209
Corner Angles

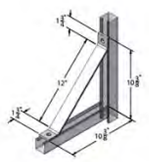


FIG. 9040CA-9043CA - Page 208
Knee Braces

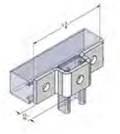


FIG. 9049UF-9057UF - Page 209-210
U-Connectors

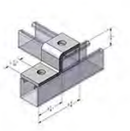


FIG. 9058ZF-9065ZF - Page 210-212
Z-Supports

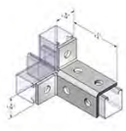


FIG. 9066WF-9080WF - Page 212-214
Corner Connectors



FIG. 9081BC-9087BC - Page 214-215
Strut Beam Clamps



FIG. 9088PB-9095PB - Page 215-217
Post Bases

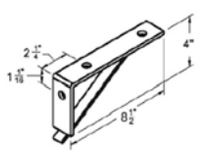


FIG. 9103BB-9109BB - Page 217-218
Wall Brackets

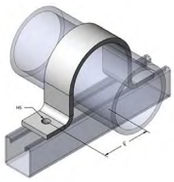


FIG. 9110HD - Page 200
Two Hole Hold Down Clamp



FIG. BI - Page 96
Bang-It Concrete Insert



FIG. DBS - Page 141-149
Rooftop Supports



FIG. EZ18 - Page 95
EZ Anchor Kit



FIG. LSA516 - Page 96
Lag Shield (Short or Long)



FIG. PAK10, PAK14 - Page 95
10-12 Plastic Anchor Kit
14-16 Plastic Anchor Kit

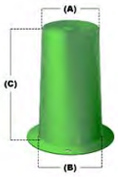


FIG. PCS - Page 116
Plastic Crete-Sleeves



FIG. PS - Page 150-157
Pipe Link Seals

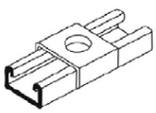


FIG. UW-450 - Page 219
Saddle Washer

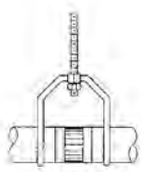


FIG. V6600 - Page 183
CAST IRON DWV HANGER

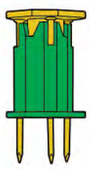


FIG. WK - Page 96
Wood Knocker Insert

If there is something you do not see in the catalog please call for help on that product.

I.T.P. IS A DISTRIBUTOR FOR THE FOLLOWING MANUFACTURERS:

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ITW

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MASON INDUSTRIES

MANUFACTURER OF NOISE AND VIBRATION CONTROL PRODUCTS

globe PIPE HANGER PRODUCTS INCORPORATED

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M.B.E. (Minority Business Enterprise)

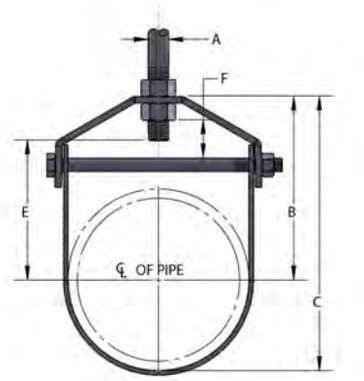
ATLAS ANCHOR

FIG. 11
STANDARD CLEVIS HANGER, DOMESTIC
FIG. 11GI
STANDARD CLEVIS HANGER, ELECTRO-GALVANIZED

FM APPROVED

c UL us LISTED

Manufactured in the USA Excluding 11GI



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, 304 (11SS) and 316 (11SX) stainless steel

Finish: Plain, painted, electro-galvanized, hot dip galvanized.

Service: Designed for the suspension of non-insulated, stationary pipelines.

Approvals: U.L.-U.L.C. listed (sizes 2 1/2"-8") and FM approved (3/4"-8"). Complies with Federal Specification WW-H-171-E (Type# 1), A-A-1192A (Type# 1) and Manufacturers Standardization Society MSS SP-58 and SP-69 (Type# 1).

Ordering: Specify pipe size, figure number and finish.

Notes: Upper lock nut must be tightened securely to assure proper hanger performance. Stainless steel hangers are recommended for applications where protection from corrosive environments is needed.

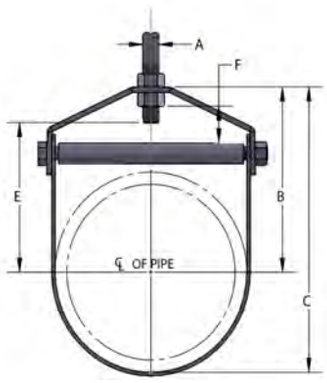
PIPE SIZE	PIPE OD	MATERIAL SIZE		BOLT	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM								
1/2	0.840	13ga x 7/8	13ga x 7/8	1/4	3/8	1 11/16	2 1/16	15/16	7/16	0.18	610
3/4	1.050	13ga x 7/8	13ga x 7/8	1/4	3/8	1 11/16	2 9/16	15/16	7/16	0.18	610
1	1.315	13ga x 7/8	13ga x 7/8	1/4	3/8	2 1/16	2 11/16	1 1/4	5/8	0.22	610
1 1/4	1.660	13ga x 7/8	13ga x 7/8	1/4	3/8	2 1/2	3 3/16	1 11/16	7/8	0.26	610
1 1/2	1.900	12ga x 7/8	12ga x 7/8	1/4	3/8	2 7/8	3 11/16	2 1/16	1 1/16	0.34	610
2	2.375	12ga x 7/8	12ga x 7/8	1/4	3/8	3 15/16	4 7/16	2 1/2	1 1/4	0.38	610
2 1/2	2.875	9ga x 1 3/16	10ga x 1 3/16	5/16	1/2	4 1/2	5 7/8	3 3/8	1 15/16	0.86	1130
3	3.500	9ga x 1 3/16	10ga x 1 3/16	5/16	1/2	4 3/4	6 1/2	3 11/16	1 3/4	0.96	1130
3 1/2	4.000	8ga x 1 3/16	10ga x 1 3/16	5/16	1/2	5 7/8	7 15/16	4 13/16	2 9/16	1.14	1130
4	4.500	8ga x 1 3/16	10ga x 1 3/16	3/8	5/8	5 15/16	8 3/16	4 9/16	2 1/8	1.26	1430
5	5.563	4ga x 1 1/4	8ga x 1 1/4	1/2	5/8	5 11/16	8 7/16	4 15/16	1 7/16	2.04	1430
6	6.625	3ga x 1 1/2	8ga x 1 1/2	1/2	3/4	6 13/16	10 1/8	5 3/16	1 3/4	2.80	1940
7	7.625	3ga x 1 1/2	8ga x 1 1/2	1/2	3/4	7 13/16	11 5/8	6 3/16	2	3.24	2000
8	8.625	3ga x 1 3/4	8ga x 1 3/4	5/8	3/4	8 1/16	12 7/16	6 1/4	1 7/8	4.46	2000
10	10.750	3/8 x 1 3/4	3ga x 1 3/4	3/4	7/8	10	15 7/16	8	2 1/4	8.06	3600
12	12.750	3/8 x 2	3ga x 2	3/4	7/8	11 9/16	18	9 9/16	2 13/16	10.34	3800
14	14.000	1/2 x 2	1/4 x 2	7/8	1	12 9/16	19 9/16	10 9/16	2 9/16	14.80	4200
16	16.000	1/2 x 2 1/2	1/4 x 2 1/2	1	1	13 15/16	21 15/16	11 15/16	2 13/16	21.00	4600
18	18.000	1/2 x 2 1/2	1/4 x 2 1/2	1	1	16	25	13 8/8	3 3/4	24.40	4800
20	20.000	5/8 x 3	3/8 x 3	1 1/4	1 1/4	17 1/2	27 1/2	15 8/8	3 3/4	47.00	4800
24	24.000	5/8 x 3	3/8 x 3	1 1/4	1 1/4	19 3/4	31 3/4	17 3/8	4	54.00	4800
30	30.000	3/4 x 3	3/8 x 3	1 1/4	1 1/4	24 1/8	39-1/8	21 1/2	4 3/4	69.00	6000

FIG. 11CI
CLEVIS HANGER, FOR AWWA DUCTILE IRON AND PVC C-900 PIPE

M.B.E. (Minority Business Enterprise)



Manufactured in the USA



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, hot dip galvanized. (11CIHDG)

Service: Designed for the suspension of stationary AWWA ductile iron pope and PVC C-900 pipe.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 1), A-A-1192 A (Type# 1), and Manufacturers' Standardization Society Mss SP-58 and SP-69 (Type# 1).

Ordering: Specify pipe size, material, figure number and finish.

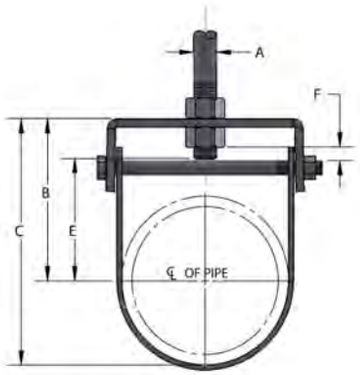
Notes: For sizes 12" and larger a spacer sleeve is added over the cross bolt. Upper locknut must be tightened securely to assure proper hanger performance. Stainless steel hangers are recommended for applications where protection from corrosive environments is needed.

PIPE SIZE AWWA	PIPE OD	MATERIAL SIZE		BOLT	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM								
3	3.960	8ga x 1.187	10ga x 1.187	5/16	1/2	5 5/8	8	4 9/16	2 9/16	1.14	1130
4	4.800	8ga x 1.187	10ga x 1.187	3/8	5/8	6	8 1/2	4 5/8	2 1/8	1.32	1460
6	6.900	3ga x 1.500	8ga x 1.500	1/2	3/4	6 13/16	10 1/8	5 3/16	1 3/4	2.86	1940
8	9.050	3ga x 1.750	8ga x 1.750	5/8	3/4	8 15/16	13	6 7/8	1 7/8	4.56	2000
10	11.100	3/8 x 1.750	3ga x 1.750	3/4	7/8	10 1/2	16 1/4	8 1/2	2 1/4	8.70	3600
12	13.200	3/8 x 2.000	3ga x 2.000	3/4	7/8	11 3/4	18 3/4	9 3/4	2 13/16	11.08	3800
14	15.300	1/2 x 2.000	1/4 x 2.000	1	1	13 1/2	21 1/2	11 3/4	2 1/2	17.57	4200
16	17.400	1/2 x 2.500	1/4 x 2.500	1	1	15 1/4	24 1/4	13 1/2	3 3/8	25.38	4600
18	19.500	1/2 x 2.500	1/4 x 2.500	1 1/4	1	16 3/4	26 3/4	14 7/8	3 3/8	47.00	4800
20	21.600	5/8 x 3.000	3/8 x 3.000	1 1/4	1 1/4	18 1/2	29 3/4	16 3/8	3 3/4	50.50	4800
24	25.800	5/8 x 3.000	3/8 x 3.000	1 1/4	1 1/4	20 3/4	34	18 5/8	4	58.00	4800

FIG. 11F
FLAT TOP CLEVIS HANGER

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for the suspension of non-insulated, stationary pipe where space is limited.

Ordering: Specify pipe size, figure number and finish.

Notes: Upper lock nut must be tightened securely to assure proper hanger performance.

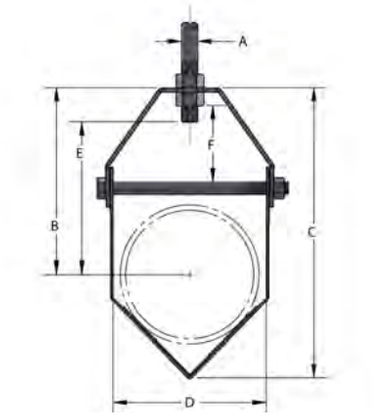
PIPE SIZE	PIPE OD	MATERIAL SIZE		BOLT	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM								
1 1/2	1.900	8ga x 1	12ga x 7/8	1/4	3/8	2 1/8	3 1/8	1 5/16	5/16	0.42	250
2	2.375	8ga x 1	12ga x 7/8	1/4	3/8	2 1/2	3 11/16	1 11/16	7/16	0.46	300
2 1/2	2.875	8ga x 1 1/4	10ga x 1 3/16	5/16	1/2	2 7/8	4 3/16	1 13/16	7/16	0.78	500
3	3.500	8ga x 1 1/4	10ga x 1 3/16	5/16	1/2	3 5/8	5 3/8	2 9/16	11/16	0.98	500
3 1/2	4.000	8ga x 1 1/4	10ga x 1 3/16	5/16	1/2	4 1/16	6 1/16	2 15/16	3/4	1.36	500
4	4.500	4ga x 1 1/4	10ga x 1 3/16	3/8	5/8	4 1/16	6 5/16	2 11/16	3/16	1.38	700
5	5.563	4ga x 1 1/4	8ga x 1 1/4	1/2	5/8	4 7/8	7 5/8	3 1/2	5/8	2.08	700
6	6.625	3ga x 1 1/2	8ga x 1 1/2	1/2	3/4	5 1/2	8 7/8	3 7/8	7/16	2.82	900
8	8.625	3ga x 1 3/4	8ga x 1 3/4	5/8	3/4	6 3/8	10 7/8	4 5/8	5/16	4.34	1000

ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 11V
V BOTTOM CLEVIS HANGER



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for the suspension of flexible plastic pipe lines. Used in conjunction with figure #12 channel.

Ordering: Specify size number and figure number.

Notes: Hanger and channel sold separately. Upper locknut must be tightened securely to assure proper hanger performance.

PIPE SIZE	SIZE NUMBER	MATERIAL SIZE		BOLT	A	B	C	D	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM									
1/2	1	14ga x 7/8	16ga x 7/8	1/4	3/8	5 3/16	5 7/8	2 9/16	4 7/16	1 1/4	.30	150
3/4	1	14ga x 7/8	16ga x 7/8	1/4	3/8	5	5 7/8	2 9/16	4 1/4	1 1/4	.30	150
1	1	14ga x 7/8	16ga x 7/8	1/4	3/8	4 7/8	5 7/8	2 9/16	4 1/16	1 1/4	.30	150
1 1/4	1	14ga x 7/8	16ga x 7/8	1/4	3/8	4 5/8	5 7/8	2 9/16	3 7/8	1 1/4	.30	150
1 1/2	1	14ga x 7/8	16ga x 7/8	1/4	3/8	4 7/16	5 7/8	2 9/16	3 11/16	1 1/4	.30	150
2	1	14ga x 7/8	16ga x 7/8	1/4	3/8	4 1/8	5 7/8	2 9/16	3 3/8	1 1/4	.30	150
2 1/2	2	11ga x 1 3/16	14ga x 1 3/16	3/8	1/2	6 13/16	8 15/16	4 11/16	5 3/4	2 3/8	.96	250
3	2	11ga x 1 3/16	14ga x 1 3/16	3/8	1/2	6 3/8	8 15/16	4 11/16	5 5/16	2 3/8	.96	250
4	2	11ga x 1 3/16	14ga x 1 3/16	3/8	1/2	5 11/16	8 15/16	4 11/16	4 1/2	2 3/8	.96	250

FIG. 11WS
CLEVIS WITH WELDED SHIELD

M.B.E. (Minority Business Enterprise)



Manufactured in the USA

ATLAS ANCHOR



Material: Carbon steel clevis hanger with pre-galvanized shield also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for the suspension of stationary insulated pipelines. Insulation protection shield is spot welded in place.

Ordering: Specify hanger size number and figure number.

Notes: To determine proper hanger size use hanger selection guide below. Upper locknut must be tightened securely to assure proper hanger performance.



PIPE SIZE	THICKNESS OF PIPE INSULATION					
	1/2"	1"	1 1/2"	2"	2 1/2"	3"
1/2	1 1/2	2 1/2	3 1/2	5	6	7
3/4	2	3	3 1/2	5	6	7
1	2	3	4	5	6	7
1 1/4	2 1/2	3 1/2	4	5	6	7
1 1/2	2 1/2	3 1/2	5	6	7	8
2	3	4	5	6	7	8
2 1/2	3 1/2	5	6	7	8	10
3	4	5	6	7	8	10
3 1/2	5	6	7	8	10	10
4	5	6	7	8	10	10
5	6	7	8	10	10	12
6	7	8	10	10	12	12
8	10	10	12	12	14	16
10	12	12	14	16	16	18
12	14	14	16	18	18	20
14	16	16	18	18	20	20
16	18	18	20	20	24	24

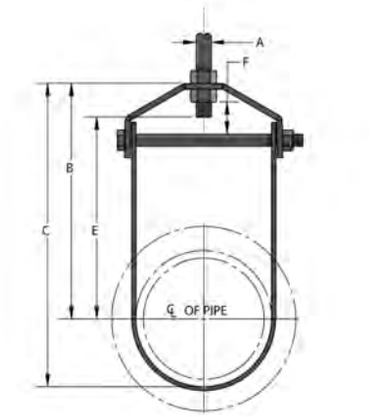
FIG. 11X
CLEVIS HANGER WITH EXTENDED BOTTOM

M.B.E. (Minority Business Enterprise)



Manufactured in the USA

ATLAS ANCHOR



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for the suspension of non-insulated stationary pipe lines. The bottom section of the hanger is elongated to allow for easier installation of insulation.

Approvals: Complies with Federal Specifications WW-H-171-E (Type #1), A-A-1192 A (Type #1), and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 1).

Ordering: Specify pipe size, figure number and finish.

Notes: Upper lock nut must be tightened securely to assure proper hanger performance.

PIPE SIZE AWWA	PIPE OD	MATERIAL SIZE		BOLT	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM								
1/2	0.840	13ga x 7/8	12ga x 7/8	1/4	3/8	3 13/16	4 1/4	3	7/16	.30	610
3/4	1.050	13ga x 7/8	12ga x 7/8	1/4	3/8	3 3/4	4 3/16	2 15/16	7/16	.33	610
1	1.315	13ga x 7/8	12ga x 7/8	1/4	3/8	4 1/8	4 3/4	3 5/16	5/8	.34	610
1 1/4	1.660	13ga x 7/8	12ga x 7/8	1/4	3/8	4 7/16	5 1/4	3 5/8	7/8	.39	610
1 1/2	1.900	12ga x 7/8	12ga x 7/8	1/4	3/8	4 3/4	5 3/4	3 15/16	1 1/16	.47	610
2	2.375	12ga x 7/8	12ga x 7/8	1/4	3/8	7 1/4	8 7/8	6 7/16	1 1/4	.65	610
2 1/2	2.875	9ga x 1 3/16	10ga x 1 3/16	5/16	1/2	8 13/16	10 13/16	7 3/4	1 15/16	1.24	1130
3	3.500	9ga x 1 3/16	10ga x 1 3/16	5/16	1/2	9	10 3/4	7 15/16	1 3/4	1.34	1130
4	4.500	8ga x 1 3/16	10ga x 1 3/16	3/8	5/8	10 1/8	12 3/8	8 13/16	2 1/8	1.92	1430
5	5.563	4ga x 1 1/4	8ga x 1 1/4	1/2	5/8	9 7/8	12 9/16	8 7/16	1 7/16	2.58	1430
6	6.625	3ga x 1 1/2	8ga x 1 1/2	1/2	3/4	10 7/8	14 1/8	9 1/4	1 3/4	3.36	1940
8	8.625	3ga x 1 3/4	8ga x 1 3/4	5/8	3/4	12 1/4	16 9/16	10 7/16	1 7/8	5.08	2000
10	10.7500	3/8 x 1 3/4	3ga x 1 3/4	3/4	7/8	14 1/2	19 7/8	12 1/2	2 1/4	9.08	3600
12	12.7500	3/8 x 2	3ga x 2	3/4	7/8	15 7/8	22 1/4	13 7/8	2 13/16	11.54	3800

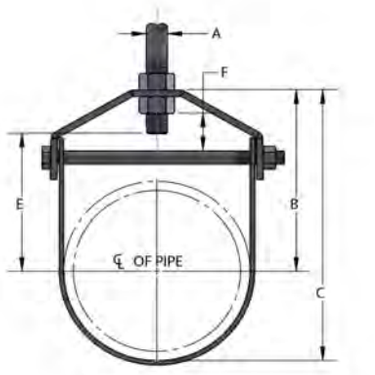
FIG. 110
ADJUSTABLE CLEVIS HANGER, LIGHTWEIGHT, DOMESTIC

FIG. 110GI
ADJUSTABLE CLEVIS HANGER, ELECTRO-GALVANIZED LIGHTWEIGHT

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

Manufactured in the USA Excluding 110GI



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed for the suspension of light stationary pipe or conduit.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 12) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 1). Galvanized and coated only.

Ordering: Specify pipe size, figure number and finish.

Notes: Conduit comes in various outside diameters. Verify outside diameter of conduit is equal to outside diameter of schedule 40 steel pipe.

PIPE SIZE	PIPE OD	MATERIAL SIZE		BOLT	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM								
1/2	0.840	18ga x 7/8	18ga x 7/8	1/4	3/8	1 3/4	2 1/8	1	1/2	0.12	150
3/4	1.050			1/4	3/8	1 13/16	2 5/16	1 1/16	1/2	0.12	250
1	1.315			1/4	3/8	2 1/8	2 3/4	1 5/16	3/4	0.12	
1 1/4	1.660			1/4	3/8	2 1/2	3 1/4	1 3/4	15/16	0.18	
1 1/2	1.900	14ga x 7/8	16ga x 7/8	1/4	3/8	2 13/16	3 13/16	2 1/16	1 1/8	0.24	
2	2.375			1/4	3/8	3 5/16	4 1/2	2 9/16	1 1/4	0.26	
2 1/2	2.875	12ga x 1 3/16	14ga x 1 3/16	1/4	1/2	4 1/2	5 5/16	3 7/16	2 1/16	0.58	350
3	3.500			1/4	1/2	4 13/16	6 9/16	3 3/4	1 7/8	0.66	
3 1/2	4.000	11ga x 1 3/16		5/16	1/2	5 15/16	7 7/8	4 7/8	2 5/8	0.82	
4	4.500			5/16	1/2	6 1/16	8 5/16	5	2 3/8	0.94	400

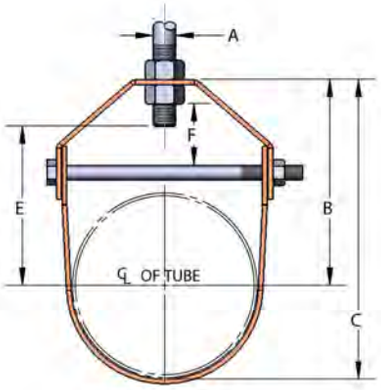
M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

Manufactured in the USA Excluding 110CTI

FIG. 110CT
COPPER PLATED CLEVIS HANGER, TUBING SIZE

FIG. 110CTI
EPOXY COATED **(COPPER-GARD)** CLEVIS HANGER, TUBING SIZE



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon Steel.

Finish: Copper plated (110CT) or Copper epoxy coated (COPPER-GARD). COPPER-GARD products offer superior corrosion protection due to the epoxy coating over electro-galvanized steel. The alternative copper plating, that has been done historically, identifies the product and is not intended for protection. Refer to MSS SP-58, 13.3.

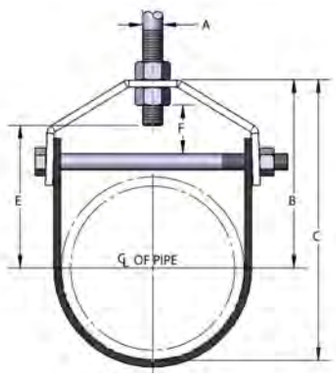
Service: Designed for the suspension of stationary copper tubing.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 1), A-A-1192 A (Type# 1), and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 1).

Ordering: Specify tube size and figure number.

TUBE SIZE	PIPE OD	MATERIAL SIZE		BOLT	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM								
1/2	0.625	18ga x 7/8	18ga x 7/8	1/4	3/8	1 7/8	2 3/16	1 1/8	1/2	0.12	150
3/4	0.875	18ga x 7/8		1/4	3/8	1 3/4	2 1/8	1	1/2	0.12	250
1	1.125	18ga x 7/8		1/4	3/8	1 13/16	2 5/16	1 1/16	1/2	0.12	
1 1/4	1.375	18ga x 7/8		1/4	3/8	2 1/8	2 3/4	1 5/16	3/4	0.12	
1 1/2	1.625	18ga x 7/8		1/4	3/8	2 1/2	3 1/4	1 3/4	15/16	0.18	
2	2.125	14ga x 7/8	16ga x 7/8	1/4	3/8	2 15/16	4	2 3/16	1 1/16	0.24	
2 1/2	2.625	12ga x 1 3/16	14ga x 1 3/16	1/4	1/2	4 7/8	5 3/4	3 3/8	2 1/16	0.58	350
3	3.125	12ga x 1 3/16		1/4	1/2	4 1/2	6 1/8	3 7/16	2	0.60	
3 1/2	3.625	12ga x 1 3/16		5/16	1/2	4 3/4	6 1/2	3 11/16	1 13/16	0.66	
4	4.125	11ga x 1 3/16		5/16	1/2	5 7/8	7 7/8	4 3/4	2 9/16	1.02	400
5	5.125	8ga x 1 1/4	8ga x 1 1/4	3/8	5/8	5 7/8	8 3/4	4 3/4	1 5/8	1.68	550
6	6.125	8ga x 1 1/4		3/8	5/8	6 1/16	9	4 3/4	1 1/2	1.84	

FIG. 110PC
PLASTIC COATED CLEVIS HANGER



Material: Carbon steel.

Finish: Top of hanger as well as nut and cross bolt are electro-galvanized and bottom of hanger is plastic coated.

Service: Designed for the suspension of non-insulated stationary pipe lines in light duty applications. Plastic coating prevents pipe from coming in contact with hanger; resulting in noise and vibration reduction as well as the prevention of electrolysis between pipe and hanger.

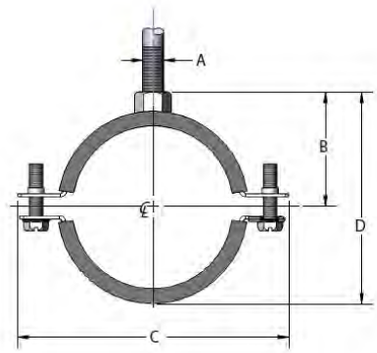
Approvals: Complies with Federal Specification WW-H-171-E (Type# 12) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 1).

Ordering: Specify pipe size and figure number.

Notes: **Available domestic**

PIPE SIZE	PIPE OD	MATERIAL SIZE		BOLT	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		TOP	BOTTOM								
1/2	0.840	18ga x 7/8	18ga x 7/8	1/4	3/8	1 3/4	2 1/8	1	1/2	0.12	150
3/4	1.050	18ga x 7/8	18ga x 7/8		3/8	1 13/16	2 5/16	1 1/16	1/2	0.12	250
1	1.315	18ga x 7/8	18ga x 7/8		3/8	2 1/8	2 3/4	1 5/16	3/4	0.12	
1 1/4	1.660	18ga x 7/8	18ga x 7/8		3/8	2 1/2	3 1/4	1 3/4	1 5/16	0.18	
1 1/2	1.900	14ga x 7/8	16ga x 7/8		3/8	2 13/16	3 13/16	2 1/16	1 1/8	0.24	
2	2.375	14ga x 7/8	16ga x 7/8		3/8	3 5/16	4 1/2	2 9/16	1 1/4	0.26	
2 1/2	2.875	12ga x 1 3/16	14ga x 1 3/16		1/2	4 1/2	5 5/16	3 7/16	2 1/16	0.58	350
3	3.500	12ga x 1 3/16	14ga x 1 3/16		1/2	4 13/16	6 9/16	3 3/4	1 7/8	0.66	
3 1/2	4.000	11ga x 1 3/16	14ga x 1 3/16	5/16	1/2	5 15/16	7 7/8	4 7/8	2 5/8	0.82	
4	4.500	11ga x 1 3/16	14ga x 1 3/16	3/8	1/2	6 1/16	8 5/16	5	2 3/8	0.94	400
5	5.563	4ga x 1 1/4	8ga x 1 1/4	1/2	5/8	5 11/16	8 7/16	4 5/16	1 7/16	2.04	1430
6	6.625	3ga x 1 1/2	8ga x 1 1/2		3/4	6 13/16	10 1/8	5 3/16	1 3/4	2.80	1940
7	7.625	3ga x 1 1/2	8ga x 1 1/2		3/4	7 13/16	11 5/8	6 3/16	2	3.24	2000
8	8.625	3ga x 1 3/4	8ga x 1 3/4	5/8	7/8	8 1/16	12 7/16	6 1/4	1 7/8	4.46	
10	10.750	3/8 x 1 3/4	3ga x 1 3/4	3/4	7/8	10	15 7/16	8	2 1/4	8.06	3600
12	12.750	3/8 x 2	3ga x 2		7/8	11 9/16	18	9 9/16	2 13/16	10.34	3800

FIG. 40HS
"HANDY SPLIT" RING HANGER



Material: Electro-Galvanized carbon steel with EPDM rubber insulation liner (EPDM rubber liner is UV resistant).

Service: Designed for the suspension of non-insulated stationary pipe liners horizontally or vertically.

Temperature Range: -50F to +230F

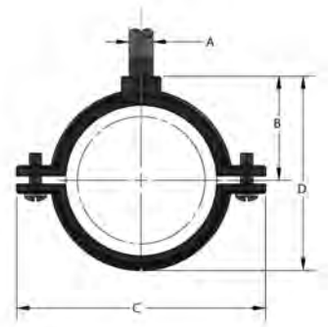
Approvals: Complies with Manufacturers Standardization Society (MSS) SP-58 and SP-69 (Type# 12).

Benefits:

- EPDM Rubber Liner minimizes noise.
- "Handy Split" hinge mechanism allows installation with one hand.
- 3/8" welded cap nut allows easy attachment to threaded rod.
- Many sizes accommodate both OD and IPS sizes.

PIPE SIZE (IPS)	COPPER TUBE SIZE (CTS)
1/4"	3/8"
3/8"	1/2"
	5/8"
1/2"	3/4"
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	
	2"
2"	
	2 1/2"
2 1/2"	
	3"
3"	
	3 1/2"
3 1/2"	4"
4"	

FIG. 41
SPLIT RING EXTENSION HANGER



Material: Malleable iron.

Finish: Plain, electro-galvanized.

Service: Designed for the suspension of non-insulated stationary pipe lines horizontally and vertically.

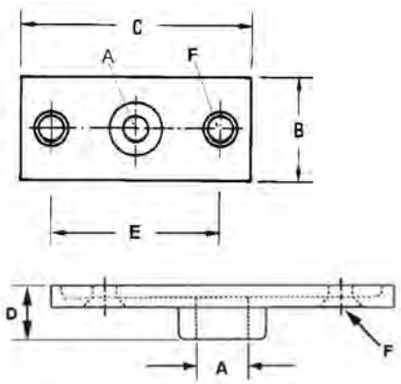
Approvals: Complies with Federal Specification WWH-171-E. (Type# 25), A-A-1192A (Type# 12), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 12).

Ordering: Specify pipe size, figure number and finish.

Notes: Split ring extension hangers with hinged design available in 3/8" - 4" (41H).

PIPE SIZE	PIPE OD	SCREW	A	B	C	D	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	10-24	3/8-16	3/4	2 1/8	1 3/16	0.098	180
3/4	1.050		3/8-16	7/8	2 1/2	1 9/16	0.112	
1	1.315		3/8-16	1 1/8	2 3/4	2	0.147	
1 1/4	1.660		3/8-16	1 5/16	3 3/16	2 3/8	0.181	
1 1/2	1.900		3/8-16	1 7/16	3 3/8	2 5/8	0.214	
2	2.375		3/8-16	1 5/8	3 15/16	3 1/16	0.300	

FIG. 41A
HANGER FLANGE PLATE



Material: Malleable iron, 304 (41ASSI) and 316 (41ASXI) stainless steel.

Finish: Electro-galvanized, Copper epoxy coated (COPPER-GARD). COPPER-GARD products offer superior corrosion protection due to the epoxy coating over electro-galvanized material. The alternative copper plating that has been done historically is for identification purposes and is not intended for corrosion protection. Refer to MSS SP-58,13.3.

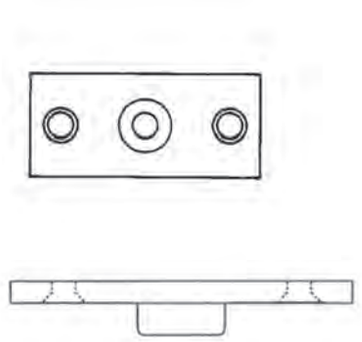
Service: Designed for attaching hanger rod to wood beams, ceilings, walls and floor.

Ordering: Specify rod size, figure number and finish.

Notes: Stainless flange plates are recommended for applications where protection from corrosive environments is needed.

ROD SIZE A	B	C	D	E	F SCREW SIZE	WEIGHT EACH (lbs)
3/8-16	1 3/8	2 3/4	7/16	1 11/16	#12	0.18
1/2-13	1 3/8	2 3/4	7/16	1 11/16	#12	0.18

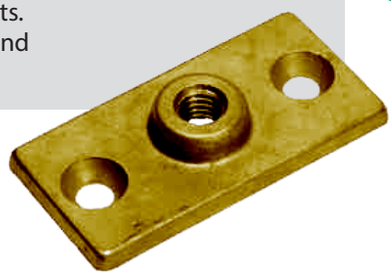
FIG. 41AB
FLANGE PLATES



Material: Solid brass.

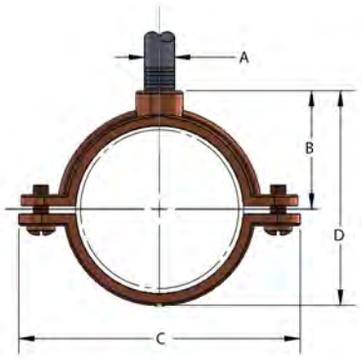
Ordering: Specify rod size and figure number

Notes: For 1/2", 3/4" and 1" Copper Tube Lines.
Solid brass material is recommended for extra protection in corrosive environments.
Excellent added protection in wet and humid surroundings.



ROD SIZE	WEIGHT EACH (lbs)
3/8	0.19

FIG. 41B
SPLIT RING HANGER



Material: Solid brass.

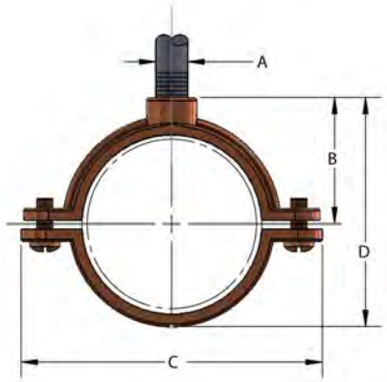
Ordering: Specify rod size and figure number

Notes: For 1/2", 3/4" and 1" Copper Tube Lines.
Solid brass material is recommended for extra protection in corrosive environments.
Excellent added protection in wet and humid surroundings.



ROD SIZE	WEIGHT EACH (lbs)
1/2	0.09
3/4	0.11
1	0.13

FIG. 41CT
EPOXY COATED **(COPPER-GARD)** COPPER TUBE SPLIT RING EXTENSION HANGER



Material: Malleable iron.

Finish: Copper epoxy coated (COPPER-GARD). COPPER-GARD products offer superior corrosion protection due to the epoxy coating over electro-galvanized material. The alternative copper plating that has been done historically identifies the product and is not intended for protection. Refer to MSS SP58, 13:3.

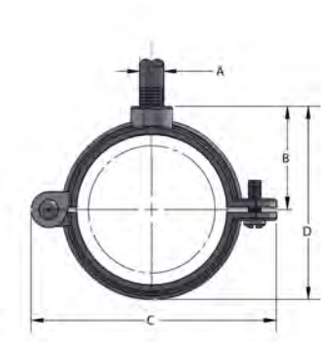
Service: Designed for the suspension of non-insulated stationary copper tubing, horizontally and vertically.

Approvals: Complies with Federal Specification WWH-171-E. (Type# 25), A-A-1192A (Type# 12), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 12).

Ordering: Specify tube size and figure number.

TUBE SIZE	TUBE OD	SCREW	A	B	C	D	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.625	10-24	3/8-16	11/16	1 7/8	1 1/8	0.087	180
3/4	0.875		3/8-16	13/16	2 1/4	1 3/8	0.096	
1	1.125		3/8-16	15/16	2 1/2	1 5/8	0.128	
1 1/4	1.375		3/8-16	1 1/16	2 7/8	1 7/8	0.141	
1 1/2	1.625		3/8-16	1 3/16	3	2 3/16	0.179	
2	2.125		3/8-16	1 7/16	3 1/2	2 11/16	0.229	

FIG. 41H
SPLIT RING EXTENSION HANGER, HINGE DESIGN



Material: Malleable iron.

Finish: Plain, electro-galvalized.

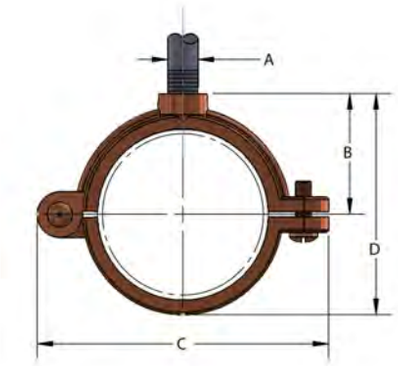
Service: Designed for suspension of non-insulated stationary pipe lines horizontally or vertically.

Approvals: Complies with Federal Specification WWH-171-E. (Type# 25), A-A-1192A (Type# 12), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 12).

Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	SCREW	A	B	C	D	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8	0.675	10-24	3/8-16	11/16	1 13/16	1 3/16	0.084	180
1/2	0.840		3/8-16	3/4	2 1/8	1 3/16	0.098	
3/4	1.050		3/8-16	7/8	2 1/2	1 9/16	0.112	
1	1.315		3/8-16	1 1/8	2 3/4	2	0.147	
1 1/4	1.660		3/8-16	1 5/16	3 3/16	2 3/8	0.181	
1 1/2	1.900		3/8-16	1 7/16	3 3/8	2 5/8	0.214	
2	2.375		3/8-16	1 5/8	3 15/16	3 1/16	0.299	
2 1/2	2.875	1/4	1/2-13	2 1/8	5 3/16	3 13/16	0.583	300
3	3.500		1/2-13	2 1/2	5 11/16	4 5/8	0.713	
4	4.500		1/2-13	2 7/8	6 3/4	5 9/16	1.019	

FIG. 41HCT
EPOXY COATED (**COPPER-GARD**) COPPER TUBING SPLIT RING EXTENSION HANGER, HINGE DESIGN



Material: Malleable iron.

Finish: Copper epoxy coated (COPPER-GARD). COPPER-GARD products offer superior corrosion protection due to the epoxy coating over electro-galvanized material. The alternative copper plating that has been done historically identifies the product and is not intended for protection. Refer to MSS SP58, 13:3.

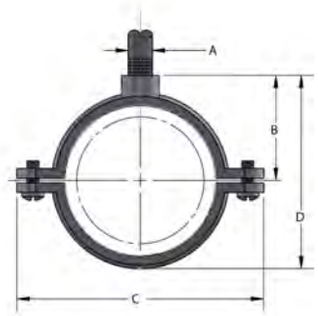
Service: Designed for suspension of non-insulated stationary pipe lines horizontally or vertically.

Approvals: Complies with Federal Specification WWH-171-E. (Type# 25), A-A-1192A (Type# 12), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 12).

Ordering: Specify tube size and figure number.

TUBE SIZE	TUBE OD	SCREW	A	B	C	D	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/4	0.375	10-24	3/8-16	7/8	1 3/4	7/8	0.073	180
3/8	0.500		3/8-16	5/8	1 3/4	1 1/16	0.080	
1/2	0.625		3/8-16	11/16	1 7/8	1 3/16	0.084	
3/4	0.875		3/8-16	13/16	2 5/16	1 7/16	0.106	
1	1.125		3/8-16	15/16	2 7/16	1 5/8	0.122	
1 1/4	1.375		3/8-16	1 1/16	2 13/16	1 15/16	0.152	
1 1/2	1.625		3/8-16	1 3/16	3 1/16	2 3/16	0.172	
2	2.125		3/8-16	1 7/16	3 5/8	2 11/16	0.233	
2 1/2	2.625	1/4-20	1/2-13	1 7/8	4 15/16	2 7/16	0.449	300
3	3.125		1/2-13	2 1/8	5 1/2	4 1/16	0.663	
4	4.125		1/2-13	2 5/8	6 5/8	5 1/16	0.753	

FIG. 41SSI
304 STAINLESS STEEL
FIG. 41SXI
316 STAINLESS STEEL SPLIT RING EXTENSION HANGER



Material: 304 (41SSI) and 316 (41SXI) stainless steel.

Service: Designed for suspension of non-insulated stationary pipe lines horizontally or vertically.

Approvals: Complies with Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 12).

Ordering: Specify pipe size, material and finish.

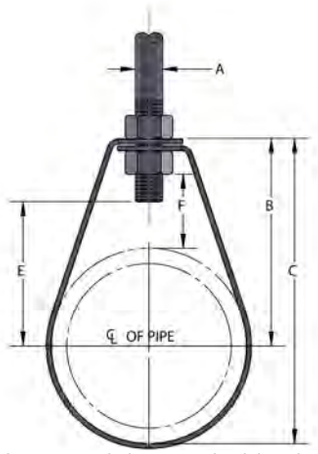
Notes: 304 and 316 stainless steel are recommended for applications where protection from corrosive environments is needed.

PIPE SIZE	PIPE OD	SCREW	A	B	C	D	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8	0.675	10-24	3/8-16	11/16	1 13/16	1 3/16	0.084	180
1/2	0.840		3/8-16	3/4	2 1/8	1 3/16	0.098	
3/4	1.050		3/8-16	7/8	2 1/2	1 9/16	0.112	
1	1.315		3/8-16	1 1/8	2 3/4	2	0.147	
1 1/4	1.660		3/8-16	1 5/16	3 3/16	2 3/8	0.181	
1 1/2	1.900		3/8-16	1 7/16	3 3/8	2 5/8	0.214	
2	2.375		3/8-16	1 5/8	3 15/16	3 1/16	0.300	
2 1/2	2.875	1/4	1/2-13	2 1/8	5 3/16	3 13/16	0.580	300
3	3.500		1/2-13	2 1/2	5 11/16	4 5/8	0.720	
4	4.500		1/2-13	2 7/8	6 3/4	5 9/16	1.020	

FIG. 31
BAND HANGER

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, plastic coated.

Service: Designed for the suspension of non-insulated, stationary pipe lines. The plastic coated band hanger protects the pipe from the steel surface of the hanger and is designed to reduce noise, vibration and prevents electrolysis between pipe and the hanger. Stainless steel hangers are recommended for applications where protection from corrosive environments is needed.

Approvals: Complies with Federal Specification WWH-171-E (Type# 7), A-A-1192A (Type# 7), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 7).

Ordering: Specify pipe size, figure number and finish.

Notes: Upper lock nut must be tightened securely to assure proper hanger performance.

PIPE SIZE	PIPE OD	MATERIAL SIZE	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8	0.675	16ga x .875	3/8	2 1/4	2 5/8	1 7/16	1 1/2	.100	610
1/2	0.840	16ga x .875	3/8	2 3/16	2 9/16	1 3/8	1 5/16	.100	610
3/4	1.050	16ga x .875	3/8	2	2 9/16	1 13/16	1 1/16	.100	610
1	1.315	16ga x .875	3/8	2 3/16	2 13/16	1 5/16	1 1/16	.120	610
1 1/4	1.660	16ga x .875	3/8	2 5/16	3 1/8	1 1/2	1 1/16	.120	610
1 1/2	1.900	16ga x .875	3/8	2 3/8	3 3/8	1 9/16	1	.140	610
2	2.375	16ga x .875	3/8	2 13/16	4	2	1 3/16	.160	610
2 1/2	2.875	14ga x 1.0	1/2	3 3/8	4 13/16	2 1/4	1 5/16	.280	970
3	3.500	13ga x 1.0	1/2	3 3/4	5 9/16	2 5/8	1 3/8	.380	970
3 1/2	4.000	13ga x 1.0	1/2	4 3/16	6 3/16	3 1/16	1 9/16	.420	970
4	4.500	11ga x 1.0	1/2	4 5/8	6 13/16	3 7/16	1 11/16	.600	1130
5	5.563	11ga x 1.0	1/2	5 1/16	7 7/8	3 15/16	1 5/8	.700	1130
6	6.625	11ga x 1.5	3/4	6 3/8	9 3/4	4 3/4	2 3/16	1.340	1600
8	8.625	11ga x 1.5	3/4	8 1/16	12 7/16	6 7/16	2 7/8	1.640	1800

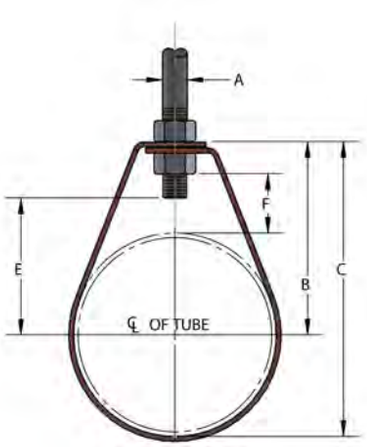
M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

Manufactured in the USA Excluding 31CTI

FIG. 31CT
COPPER BAND HANGER

FIG. 31CTI
EPOXY COATED **(COPPER-GARD)** BAND HANGER



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel.

Finish: Copper plated (31CT) or Copper epoxy coated. COPPER-GARD (31CTI). COPPER-GARD products offer superior corrosion protection due to the epoxy coating over electro-galvanized steel. The alternative, copper plating that has been done historically, is for identification purposes only and is not intended for corrosion protection. Refer to MSS-SP58 13.3.

Service: Designed for the suspension of non-insulated stationary pipe.

Approvals: Complies with Federal Specification WWH-171-E (Type# 7), A-A-1192A (Type# 7), Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 7).

Ordering: Specify tube size, figure number and finish.

Notes: Upper locknut must be tightened securely to assure proper hanger performance.

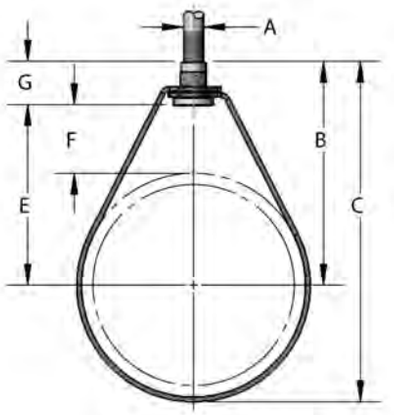
PIPE SIZE	PIPE OD	MATERIAL SIZE	A	B	C	E	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.625	16ga x .875	3/8	2 5/16	2 5/8	1 1/2	1 9/16	.10	610
3/4	0.875	16ga x .875	3/8	2 1/8	2 9/16	1 5/16	1 1/4	.10	610
1	1.125	16ga x .875	3/8	2	2 9/16	1 3/16	1	.10	610
1 1/4	1.375	16ga x .875	3/8	2 1/16	2 13/16	1 1/4	15/16	.12	610
1 1/2	1.625	16ga x .875	3/8	2 5/16	3 1/8	1 1/2	1 1/16	.12	610
2	2.125	16ga x .875	3/8	2 5/8	3 11/16	1 13/16	1 1/8	.14	610
2 1/2	2.625	14ga x 1.0	1/2	3 3/16	4 1/2	2 1/16	1 1/4	.30	610
3	3.125	14ga x 1.0	1/2	3 1/2	5	2 3/8	1 5/16	.32	970
3 1/2	3.625	13ga x 1.0	1/2	3 13/16	5 9/16	2 11/16	1 3/8	.38	970
4	4.125	13ga x 1.0	1/2	4	6 1/16	2 7/8	1 5/16	.44	1130
5	5.125	11ga x 1.0	1/2	4 15/16	7 1/2	3 11/16	1 5/8	.68	1130
6	6.125	11ga x 1.0	1/2	5 5/8	8 11/16	4 17/16	1 7/8	.84	1130

FIG. 310G
"EM-LOK" ADJUSTABLE SWIVEL RING HANGER, DOMESTIC

FM APPROVED

c UL us LISTED

Manufactured in the USA



Material: Pre-galvanized carbon steel.

Finish: Pre-galvanized and plastic coated.

Service: Designed for the suspension of non-insulated stationary pipe lines. Plastic coating prevents pipe from coming in contact with hanger and is designed to reduce noise, vibration and prevent electrolysis between pipe and hanger.

Approvals: U.L. - U.L.C. listed and FM approved. Complies with Federal Specification WW-H-171-E (Type# 10), A-A-1192A (Type# 10) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 10).

Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	A	B	C	E	F	G	WGT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	18ga x 5/8	3/8	2 1/2	2 7/8	1 5/8	13/16	7/8	0.08	400
3/4	1.050	18ga x 5/8	3/8	2 7/16	2 15/16	1 9/16	11/16	7/8	0.08	400
1	1.315	18ga x 5/8	3/8	2 5/8	3 1/4	1 3/4	11/16	7/8	0.08	600
1 1/4	1.660	18ga x 5/8	3/8	2 9/16	3 3/8	1 11/16	7/8	7/8	0.10	600
1 1/2	1.900	18ga x 5/8	3/8	2 11/16	3 5/8	1 13/16	7/8	7/8	0.10	600
2	2.375	18ga x 5/8	3/8	3 3/8	4 1/2	2 1/2	15/16	7/8	0.12	600
2 1/2	2.875	14ga x 3/4	1/2	3 11/16	5 1/8	2 3/4	1 1/4	11/16	0.32	600
3	3.500	14ga x 3/4	1/2	4	5 7/8	3 1/8	1 1/8	11/16	0.35	600
3 1/2	4.000	14ga x 3/4	1/2	4 5/16	6 5/8	3 5/8	1 1/2	11/16	0.39	600
4	4.500	13ga x 3/4	5/8	4 15/16	7 1/8	3 7/8	1 1/4	1 1/8	0.43	1000
5	5.563	12ga x 1	5/8	5 5/8	8 1/2	4 3/8	1 3/8	1 1/8	0.65	1000
6	6.625	12ga x 1	3/4	6 11/16	10 1/8	5 5/16	2	1 3/8	1.09	1250
8	8.625	11ga x 1	3/4	8 5/16	12 7/8	6 15/16	2 5/8	1 3/8	1.24	1250

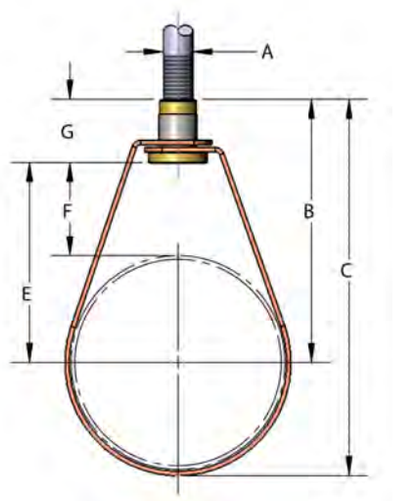
ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

Manufactured in the USA Excluding 310CTI

FIG. 310CT
COPPER TUBING "EMLOK" ADJUSTABLE SWIVEL RING HANGER

FIG. 310CTI
EPOXY COATED (COPPER-GARD) COPPER TUBING "EMLOK" ADJUSTABLE SWIVEL RING HANGER



Material: Carbon steel.

Finish: Copper plated (310CT) or Copper epoxy coated (COPPER- GARD).

Service: Designed for the suspension of non-insulated, stationary copper lines.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 10), A-A-1192A (Type# 10) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 10).

Ordering: Specify tubing size and figure number.

TUBE SIZE	TUBE OD	MATERIAL SIZE	A	B	C	E	F	G	WGT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.625	18ga x .625	3/8	2 11/16	3	1 13/16	1 1/2	7/8	0.07	300
3/4	0.875			2 1/2	2 15/16	1 5/8	1 3/16		0.07	300
1	1.125			2 7/16	3	1 9/16	1		0.07	300
1 1/4	1.375			2 1/2	3 3/16	1 5/8	15/16		0.08	300
1 1/2	1.625			2 9/16	3 3/8	1 11/16	7/8		0.085	300
2	2.125			3 5/16	4 3/8	2 7/16	1 3/8		0.1	300
2 1/2	2.625	14ga x 1.00	1/2	3 7/8	5 9/16	2 13/16	1 1/2	11/16	0.31	525
3	3.125			4 3/16	5 3/4	3 1/8	1 9/16		0.345	525
3 1/2	3.625			4 9/16	6 3/8	3 1/2	1 11/16		0.375	525
4	4.125			4 13/16	6 15/16	3 3/4	1 11/16		0.41	650
5	5.125			5 3/16	7 13/16	4 1/8	1 9/16		0.475	1000
6	6.125			5 11/16	8 15/16	4 5/8	1 9/16		0.53	1000

FIG. 310NF "EM-LOK" ADJUSTABLE SWIVEL RING HANGER, NFPA

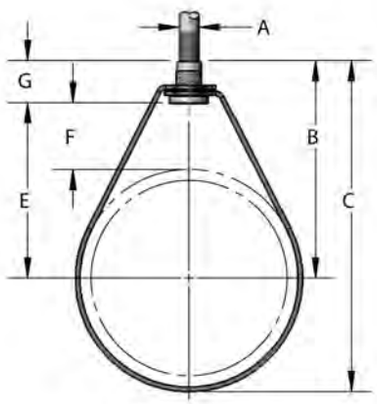
M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

FM APPROVED

c UL us LISTED

Manufactured in the USA



Material: Pre-galvanized carbon steel, also available in 304 and 316 stainless steel.

Finish: Pre-galvanized.

Service: Designed for the suspension of non-insulated stationary pipe lines. Typically used as a pipe support for sprinkler piping. Hanger is manufactured to use minimum rod sizes permitted by NFPA.

Approvals: U.L. - U.L.C. listed and FM approved (3/4"-8"). Complies with Federal Specification WW-H-171-E (Type# 10), A-A-1192A (Type# 10) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 10).

Ordering: Specify pipe size and figure number.

PIPE SIZE	PIPE OD	MATERIAL SIZE	A	B	C	E	F	G	WGT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	18ga x 5/8	3/8	2 1/2	2 7/8	1 5/8	13/16	7/8	0.08	400
3/4	1.050			2 7/16	2 15/16	1 9/16	11/16		0.08	
1	1.315			2 5/8	3 1/4	1 3/4	11/16		0.08	600
1 1/4	1.660			2 9/16	3 3/8	1 11/16	7/8		0.10	
1 1/2	1.900			2 11/16	3 5/8	1 13/16	7/8		0.10	
2	2.375			3 3/8	4 1/2	2 1/2	15/16		0.12	
2 1/2	2.875	14ga x 3/4		3 7/8	5 3/8	3 1/8	1 3/8		0.24	
3	3.500			4 1/2	6 1/4	3 5/8	1 5/8		0.28	
3 1/2	4.000			4 7/8	6 7/8	4	13/4		0.32	
4	4.500			5	7 1/4	4 1/8	1 5/8		0.32	1000
5	5.563	13ga x 3/4	1/2	5 3/4	8 1/2	4 1/4	1 7/8	11/16	0.62	
6	6.625	12ga x 3/4		6 3/4	10 1/8	5 1/8	21/8		0.65	1250
8	8.625	11ga x 1		7 7/8	12 1/4	7	2 3/8		1.00	
10	10.750	11ga x 1 1/4		9 11/16	15 1/16	8 5/8	31/4		1.675	

FIG. 127CT
NATICK HANGERS, COPPER TUBE SIZE



Material: Carbon steel.

Finish: Copper epoxy coated (COPPER-GARD)

Service: Designed for the support of copper tube supply lines. Attaches to wood members.

Ordering: Specify tube size, length and figure number.

TUBE SIZE	D TUBE OD	T	L (6" OR 12")	WGT EACH (lbs)	
				6"	12"
1/2	0.625	1/2	6" or 12"	0.07	0.09
3/4	0.875			0.07	
1	1.125			0.08	0.10
1 1/4	1.375			0.08	
1 1/2	1.625			0.10	0.12
2	2.125			0.10S	

FIG. 129B
VAN (BELL) HANGER



Material: Solid brass.

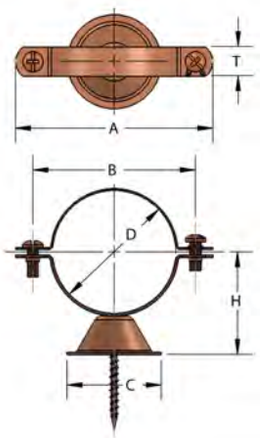
Ordering: Specify rod size and figure number

Notes: For 1/2", 3/4" and 1" Copper Tube Lines.
Solid brass material is recommended for extra protection in corrosive environments.
Excellent added protection in wet and humid surroundings.



ROD SIZE	WEIGHT EACH (lbs)
1/2	0.060
3/4	0.075
1	0.080
(SET SCREW NOT INCLUDED)	

FIG. 129CT
VAN (BELL TYPE) HANGER, EPOXY COATED **(COPPER-GARD)**
FIG. 129CTP
VAN (BELL TYPE) HANGER, COPPER PLATED



Material: Carbon steel.

Finish: Copper plated, copper epoxy coated (COPPER-GARD) (with stainless steel screws).

Service: Designed to support copper tubing to wall. Supports the pipe 1" from the back of pipe to wall. The wood screw is concealed upon installation.

Ordering: Specify tube size, finish and figure number.

TUBE SIZE	D TUBE OD	A	B	C	H	T	WEIGHT EACH (lbs)
1/2	0.625	2 3/16	1 9/16	1 5/8	1 1/16	1/2	0.06
3/4	0.875	2 3/8	1 3/4		1 3/16		0.06
1	1.125	2 7/16	1 7/8		1 5/16		0.06
1 1/4	1.375	2 11/16	2 1/8		1 7/16		0.08
1 1/2	1.625	3 1/16	2 7/16		1 9/16		0.08
2	2.125	4 7/16	2 13/16		1 13/16		0.09
ASSEMBLED WITH #6 X 2 COARSE THREAD DRYWALL SCREW							

FIG. 131CT
MILFORD HANGER, COPPER TUBE SIZE



Material: Carbon steel.

Finish: Copper epoxy coated (COPPER-GARD)

Service: Designed for the support of copper tube supply lines. Attaches to wood members.

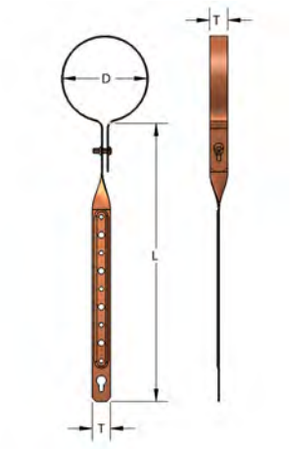
Ordering: Specify tube size, length and figure number.

TUBE SIZE	D TUBE OD	A	B	T	L	WGT EACH (lbs)	
						6"	12"
1/2	0.625	2 3/16	1 9/16	1/2	6" or 12"	0.08	0.12
3/4	0.875	2 3/8	1 3/4			0.08	0.12
1	1.125	2 7/16	1 7/8			0.08	0.12
1 1/4	1.375	2 11/16	2 1/8			0.10	0.14
1 1/2	1.625	3 1/16	2 7/16			0.10	0.14
2	2.125	3 7/16	2 13/16			0.10	0.14

FIG. 237
DWV (DRAIN, WASTE, VENT) HANGER

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



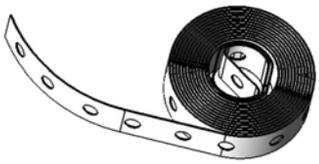
Material:	Pre-galvanized carbon steel, pre-copper plated carbon steel.
Finish:	Pre-galvanized (237G), copper plated (237CT) or plastic coated (237PC).
Service:	Designed for the support of PVC or ABS DWV pipe from wood joists. Evenly spaced holes allow for proper pipe pitch.
Ordering:	Specify pipe size, figure number and finish.
Notes:	FIG. 237CT copper plated DWV hangers are NOT designed for copper DWV pipe.

PIPE SIZE	PIPE OD D	T	L	WGT EACH (lbs)
1 1/2	1.900	3/4	12	0.20
2	2.375			0.22
3	3.500			0.24
4	4.500			0.26

FIG. 239
PERFORATED HANGER STRAPPING

M.B.E. (Minority Business Enterprise)

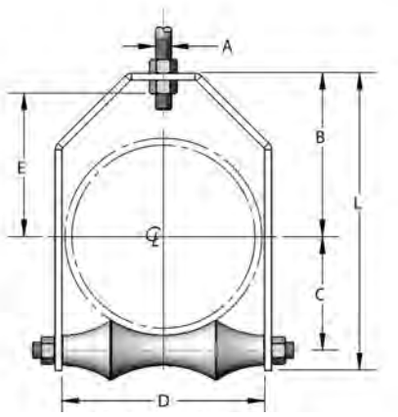
Manufactured in the USA



Material:	Plain or pre-galvanized carbon steel, pre-copper plated carbon steel, type 304 stainless steel (239SS).
Finish:	Plain, pre-galvanized or copper plated
Service:	Designed for various light duty applications.
Ordering:	Specify gauge, length, figure number and finish.
Notes:	Stainless steel hangers are recommended for applications where protection from corrosive environments is needed.

SIZE	WGT EACH (lbs) LENGTH		
	10'	50'	100'
3/4 X 20ga	0.83	4.15	8.30
3/4 x 22ga	0.70	3.50	7.00
3/4 x 24ga	0.54	2.70	5.40

FIG. 272
ADJUSTABLE ROLLER HANGER



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel yoke and crossbolt with cast iron roller. Also available in 316 stainless steel

Finish: Plain, electro-galvanized or painted.

Service: Designed for the suspension of pipe where longitudinal movement of pipe may occur due to expansion and contraction, and where vertical adjustment may be necessary.

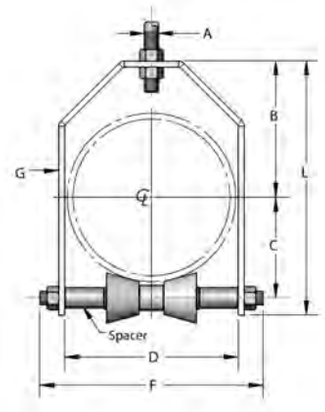
Approvals: Complies with Federal Specification WW-H-171-E (Type# 44), A-A-1192A (Type# 43) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 43).

Ordering: Specify roller size, figure number and finish. Please remember to consider insulation thickness when sizing rollers.

Notes: **Available domestic**

HANGER SIZE	MATERIAL SIZE	A	B	C	D	E	L	WGT EACH (lbs)	MAX REC LOAD (lbs)
2	8ga x 1.25	1/2	3 3/8	1 9/16	2 7/8	2 1/4	5 5/8	1.14	150
2 1/2	8ga x 1.25	1/2	3 15/16	1 7/8	3 1/4	2 13/16	6 1/2	1.47	225
3	8ga x 1.25	1/2	4 5/16	2 1/8	3 13/16	3 3/16	7 13/16	1.62	310
3 1/2	3ga x 1.50	1/2	4 5/8	2 1/2	4 5/16	3 7/16	7 15/16	2.76	390
4	3ga x 1.50	5/8	4 13/16	2 13/16	4 7/8	3 3/8	8 1/2	3.16	475
5	3ga x 2.00	5/8	5 3/4	3 3/8	5 7/8	4 5/16	9 15/16	4.62	685
6	3ga x 2.00	3/4	6 3/8	3 15/16)	7	4 5/8	11 1/4	6.08	780
7	3ga x 2.00	3/4	6 5/16	4 1/2	8	4 9/16	11 5/8	7.59	780
8	3/8 x 2.00	7/8	7 9/16	5 1/8	9	5 7/16	13 7/8	11.83	780
10	3/8 x 2.50	7/8	8 3/4	6 1/4	11 1/8	6 5/8	16 1/4	17.29	965
12	1/2 x 2	7/8	9 5/8	7 3/8	13	7 7/8	18 7/8	22.50	1200
14	1/2 x 2 1/2	1	11 1/4	8 3/8	14 1/4	9 1/4	21 7/8	33.00	1200
16	1/2 x 3	1	12 1/4	9 3/8	16 1/4	10 1/4	24 1/8	46.00	1200
18	1/2 x 3	1	13 1/4	10 1/2	18 1/4	11 1/4	26 1/2	50.50	1400
20	5/8 x 3	1 1/4	14 1/4	11 5/8	20 1/4	12 1/4	28 1/8	65.00	1600

FIG. 272SS
ADJUSTABLE ROLLER HANGER, 316 STAINLESS STEEL



Material: All 316 stainless steel construction.

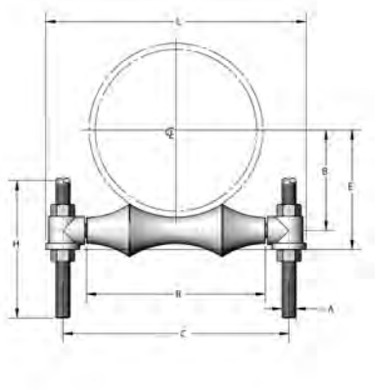
Service: Designed for the suspension of pipe where longitudinal movement of pipe may occur due to expansion and contraction and where vertical adjustment may be necessary. Excellent corrosion resistance.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 44), A-A-1192A (Type# 43) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 43).

Ordering: Specify roller size and figure number. Please remember to consider insulation thickness when sizing rollers.

Size No.	A	B	C	D	F	G	L	Cross Rod Dia.
4	5/8	5 3/16	2 13/16	4 7/8	6 1/2	1/4 x 2	9 1/4	3/4
6	3/4	6 7/16	3 15/16	7	9 1/2	1/4 x 2	11 5/8	
8	7/8	7 1/2	5 1/4	9	11 7/8	3/8 x 2	14	7/8
10		8 3/4	6 3/8	11	14 1/4	3/8 x 2 1/2	16 1/2	
12		10 1/16	7 7/16	13	16 1/4	1/2 x 2	18 7/8	1 1/8
14	1	10 15/16	8 3/16	14 1/4	18	1/2 x 2 1/2	20 5/8	
16		12 13/16	9 5/16	16 1/4	21	1/2 x 3	24 3/8	1 1/4
18		13 3/4	10 3/8	18 1/4	22 7/8	1/2 x 3	26 1/8	
20	1 1/4	15 1/16	11 5/16	20 1/4	25 1/2	5/8 x 3	28 11/16	

FIG. 273
ADJUSTABLE TWO-ROD ROLLER SUPPORT



Material: Carbon steel axles and rods with cast iron rollers and sockets. Axles & Rods also available in stainless steel.

Finish: Plain, electro-galvanized or painted.

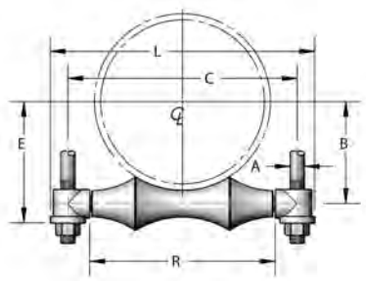
Service: Designed for the support of pipe where longitudinal movement may occur due to expansion and contraction and vertical adjustment of up to 6 inches may be necessary.

Ordering: Specify roller size, figure number and finish. Please remember to consider insulation thickness when sizing rollers.

Notes: **Available domestic**

PIPE ROLLER SIZE	PIPE OD	AXLE SIZE	A	B	C	E	H	L	R	WGT EACH (lbs)	MAX REC LOAD (lbs)
2	2.375	3/8	3/8	19/16	4 3/8	2 3/16	12	5 5/8	2 7/8	1.450	600
2 1/2	2.875	1/2	1/2	1 7/8	5 1/8	2 5/8	12	6 1/2	3 1/8	2.535	600
3	3.500	1/2	1/2	2 1/8	5 5/8	2 7/8	12	7	3 3/4	2.735	700
3 1/2	4.000	1/2	1/2	2 1/2	5 7/8	3 1/4	12	7 1/4	3 7/8	2.850	750
4	4.500	1/2	5/8	2 13/16	7	3 13/16	12	8 9/16	4 3/4	4.320	750
5	5.563	5/8	5/8	3 3/8	8 1/8	4 3/8	12	9 3/4	5 3/4	4.780	750
6	6.625	3/4	3/4	3 15/16	9 3/4	4 15/16	12	11 5/8	6 7/8	7.705	1070
7	7.625	3/4	3/4	4 1/2	10 1/2	5 1/4	12	12 1/2	8	8.410	1070
8	8.625	7/8	7/8	5 1/8	12 1/8	6 3/8	12	14 1/4	8 7/8	12.205	1350
10	10.750	7/8	7/8	6 1/4	14	7 1/2	12	16 1/4	11	13.950	1730
12	12.750	7/8	7/8	7 5/16	15 3/4	8 9/16	12	18	13	17.930	2400
14	14.000	1 1/8	1	8 3/8	17 3/4	9 13/16	18	20 1/2	14 1/4	27.545	3130
16	16.000	1 1/4	1	9 1/2	20 9/16	10 15/16	18	23 3/8	16 7/8	33.340	3970
18	18.000	1 1/4	1	10 7/16	22	11 7/8	18	24 7/8	18 5/16	36.000	4200
20	20.000	1 1/4	1 1/4	11 1/2	24	13 3/8	18	27	20 1/4	46.600	4550
24	24.000	1 1/2	1 1/2	13 13/16	28 3/4	16 1/6	24	32	24 1/4	81.220	6160
30	30.000	1 3/4	1 1/2	17 1/4	35 5/8	19 5/8	24	39 3/4	30 1/4	109.220	7290

FIG. 277
ADJUSTABLE TWO-ROD ROLLER HANGER



Material: Carbon steel axle with cast iron roller and socket ends. Also available in 316 stainless steel

Finish: Plain, electro-galvanized or painted.

Service: Designed for the suspension of pipe where longitudinal movement may occur due to expansion and contraction, and vertical adjustment is necessary.

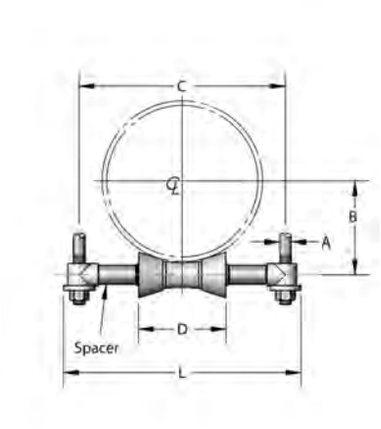
Approvals: Complies with Federal Specification WW-H-171-E (Type# 42), A-A-1192A (Type# 41) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 41).

Ordering: Specify roller size, figure number and finish. Please remember to consider insulation thickness when sizing rollers.

Notes: **Available domestic**

PIPE ROLLER SIZE	PIPE OD	AXLE SIZE	A	B	C	E	L	R	WGT EACH (lbs)	MAX REC LOAD (lbs)
2	2.375	3/8	3/8	19/16	4 3/8	2 3/16	5 5/8	2 7/8	0.760	600
2 1/2	2.875	1/2	1/2	1 7/8	5 1/8	2 5/8	6 1/2	3 1/8	1.185	660
3	3.500	1/2	1/2	2 1/8	5 5/8	2 7/8	7	3 3/4	1.385	700
3 1/2	4.000	1/2	1/2	2 1/2	5 7/8	3 1/4	7 1/4	3 7/8	1.500	750
4	4.500	1/2	5/8	2 13/16	7	3 13/16	8 9/16	4 3/4	2.110	750
5	5.563	5/8	5/8	3 3/8	8 1/8	4 3/8	9 3/4	5 3/4	2.570	750
6	6.625	3/4	3/4	3 15/16	9 3/4	4 15/16	11 5/8	6 7/8	4.395	1070
7	7.625	3/4	3/4	4 1/2	10 1/2	5 1/4	12 1/2	8	5.160	1100
8	8.625	7/8	7/8	5 1/8	12 1/8	6 3/8	14 1/4	8 7/8	7.425	1350
10	10.750	7/8	7/8	6 1/4	14	7 1/2	16 1/4	11	9.170	1730
12	12.750	7/8	7/8	7 5/16	15 3/4	8 9/16	18	13	13.150	2400
14	14.000	1 1/8	1	8 3/8	17 3/4	9 13/16	20 1/2	14 1/4	18.745	3130
16	16.000	1 1/4	1	9 1/2	20 9/16	10 15/16	23 3/8	16 7/8	24.540	3970
18	18.000	1 1/4	1	10 7/16	22	11 7/8	24 7/8	18 5/16	27.200	4200
20	20.000	1 1/4	1 1/4	11 1/2	24	13 3/8	27	20 1/4	32.000	4550
24	24.000	1 1/2	1 1/2	13 13/16	28 3/4	16 1/6	32	24 1/4	54.000	6160
30	30.000	1 3/4	1 1/2	17 1/4	35 5/8	19 5/8	39 3/4	30 1/4	82.000	7290

FIG. 277SS
ADJUSTABLE TWO-ROD ROLLER HANGER, 316 STAINLESS STEEL



Material: All 316 stainless steel construction.

Service: Designed for the suspension of pipe where longitudinal movement of pipe may occur due to expansion and contraction and where vertical adjustment may be necessary. Excellent corrosion resistance.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 42), A-A-1192A (Type# 41) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 41).

Ordering: Specify roller size and figure number. Please remember to consider insulation thickness when sizing rollers.

Size No.	A	B	C	D	L	Cross Rod Dia.
4	3/4	2 13/16	6 3/4	3 3/4	8 9/16	3/4
6	3/4	3 15/16	9 9/16	3 3/4	11 7/16	3/4
8	7/8	5 1/4	11 15/16	6	14 1/8	7/8
10	7/8	6 3/8	14 1/16	6	16 1/4	7/8
12	1	7 7/16	16 5/16	8	19 3/4	1 1/8
14	1	8 3/16	17 3/4	8	20 3/16	1 1/8
16	1 1/4	9 5/16	20 3/4	9	23 9/16	1 1/4
18	1 1/4	10 3/8	21 7/8	9	24 5/8	1 1/4
20	1 1/4	11 5/16	24 1/4	9	27 1/16	1 1/4

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FIG. 21
STEEL C-CLAMP

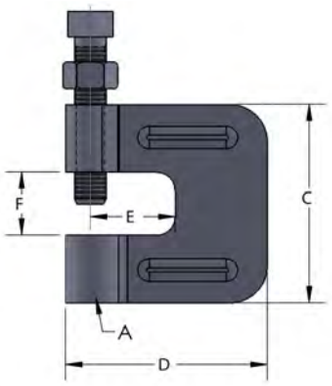
FIG. 21L
STEEL C-CLAMP WITH LOCKNUT, DOMESTIC

FIG. 21LI
STEEL C-CLAMP WITH LOCKNUT

FM APPROVED

c UL us LISTED

Manufactured in the USA Excluding 21LI



Material: Carbon steel, 304 stainless steel (21LSS) and 316 stainless steel (21LSX).

Finish: Plain, electro-galvanized.

Service: Designed for attaching hanger rod to the bottom flange of a beam. Features the ribbed design for added strength. Hardened steel cup point set screw secures clamp to beam.

Approvals: U.L.-U.L.C. listed sizes 3/8 AND 1/2 (1/2 FOR 4" IPS max) **with locknut only**. FM approved for 3/8 only **with and without locknut**. Complies with Federal Specification WW-H-171-E (Type# 23), A-A-1192 A (Type# 23) and Manufacturers' Standard Society SP-58 and MSS SP-69 (Type# 23).

Ordering: Specify rod size, figure number and finish.

Notes: See MSS SP-69 for proper set screw torque recommendations.

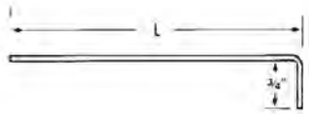
SIZE A	SET SCREW	C	D	E	F	MAX PIPE SIZE	WEIGHT EACH (lbs)		MAX REC LOAD (lbs)
							21 (W/OUT NUT	21L (W/NUT)	
3/8-16	3/8-16	2 3/8	2 3/8	1	3/4	4	.38	.40	400
1/2-13	3/8-16	2 3/8	2 3/8	1	3/4	4	.38	.40	500
5/8-11	1/2-13	2 3/8	2 5/16	7/8	3/4	5	.56	.60	550
3/4-10	5/8-11	2 3/8	2 5/16	7/8	3/4	6	.60	.68	630
7/8-9	3/4-10	3	3 5/16	1 1/4	1	8	1.76	1.88	1200

FIG. 21R
RETAINING STRAP

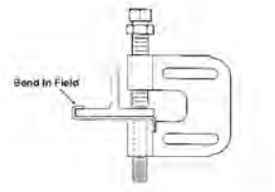
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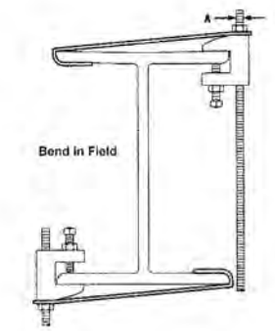
Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain, electro-galvanized.
Service:	Designed for use with FIG. 21, FIG. 21L (3/8" - 3/4") and FIG. 23L (3/8" and 1/2") to eliminate movement of the beam clamp due to vibration.
Ordering:	Specify part number, length and finish.
Notes:	Add 2" minimum to flange width to determine length.

MATERIAL	WEIGHT EACH (lbs)					
	LENGTH L					
	4-1/2	6	8	10	12	14
11ga x 1 1/4	.22	.30	.36	.44	.48	.66

FIG. 22R
RETAINING STRAP

Manufactured in the USA





Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain, electro-galvanized.
Service:	Designed for use with FIG. 61 and FIG. 62.
Ordering:	Specify part number, length and finish.
Notes:	Add 2" minimum to flange width to determine length.

ROD SIZE A	MATERIAL WIDTH	WEIGHT EACH (lbs)					
		LENGTH L					
		4-1/2	6	8	10	12	14
3/8	1.0	.14	.18	.26	.32	.40	.46
1/2	1.0	.14	.18	.24	.32	.38	.44
5/8	1.25	.17	.22	.30	.40	.47	.55
3/4	1.25	.17	.22	.30	.40	.47	.55
7/8	2.00	.28	.36	.48	.64	.76	.88

Supplied 16ga unless noted otherwise

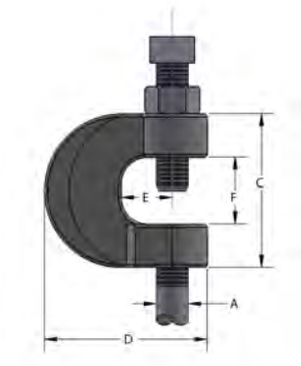
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FIG. 23L
MALLEABLE IRON C-CLAMP WITH LOCKNUT

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Material: Malleable iron

Finish: Plain, electro-galvanized.

Service: Designed for attaching hanger rod to the bottom flange of a beam.

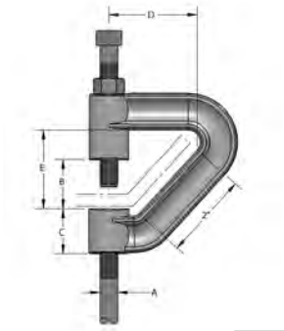
Approvals: U.L.-U.L.C. listed and FM approved (3/8" and 1/2" ONLY). Complies with Federal Specification WW-H-171-E (Type# 23), A-A-1192A (Type# 23) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 23).

Ordering: Specify rod size, figure number and finish.

Notes: See MSS SP-69 for proper set screw torque recommendations.

SIZE A	SET SCREW	C	D	E	F	MAX PIPE SIZE	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16	3/8-16	1 3/4	1 3/4	5/8	3/4	4	0.40	400
1/2-13	3/8-16	1 3/4	1 3/4	5/8	3/4	4	0.39	500
5/8-11	3/8-16	2	2	5/8	3/4	5	0.65	550
3/4-10	3/8-16	2	2	5/8	3/4	6	0.76	630

FIG. 24
PURLIN CLAMP



Material: Malleable iron

Finish: Plain, electro-galvanized.

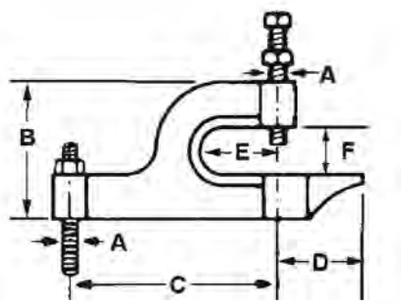
Service: Designed for use with large-lip steel Purlin beams.

Ordering: Specify figure number and finish.

Notes: See MSS SP-69 for proper set screw torque recommendations.

SIZE A	SET SCREW	B	C	D	E	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16	3/8-16 x 3	1	1	1 7/8	1 5/8	0.92	400

FIG. 25L
EXTENDED C-CLAMP WITH LOCKNUT



Material: Malleable iron

Finish: Plain, electro-galvanized.

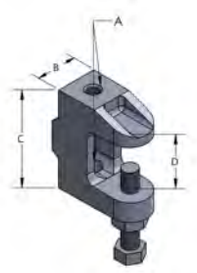
Service: Designed for attachment to beams where flange thickness does not exceed 3/4" and where it is desired to have the rod support offset from the beam.

Ordering: Specify figure number and finish.

Notes: See MSS SP-69 for proper set screw torque recommendations.

SIZE A	SET SCREW	B	C	D	E	F	WEIGHT EACH (lbs)
3/8-16	1/8-16 x 2	2.362	3.600	1.515	1.000	0.787	0.716

FIG. 60G
1/4" BEAM CLAMP



Material: Malleable iron.

Finish: Electro-galvanized.

Service: Designed to attach 1/4" hanger rod from metal beams, channel or angle iron.

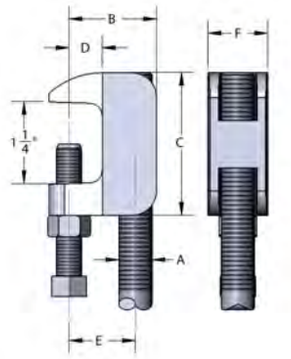
Ordering: Specify figure number and finish.

ROD SIZE A	SET SCREW	B	C	D	WEIGHT EACH (lbs)	MAC REC LOAD (lbs) TOP	MAC REC LOAD (lbs) BOTTOM
1/4-20	1/4-20	5/8	1 9/16	15/16	0.18	250	100

FIG. 61
TOP BEAM CLAMP

FM APPROVED

c UL us LISTED



Material: Malleable iron body with hardened steel set screw.

Finish: Plain or electro-galvanized.

Service: Designed to attach hanger rod to the top flange of a beam or bar.

Approvals: U.L. - U.L.C. listed 3/8 and 1/2 (1/2 for 4" IPS max).
FM approved for 3/8 only. Complies with Federal Specification A-A-1192A (Type# 19) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 19).

Ordering: Specify rod size, figure number and finish.

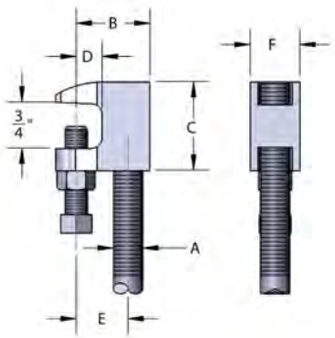
Notes: See MSS SP-69 for proper set screw torque recommendations. **Order 61D for domestic.**

ROD SIZE A	SET SCREW	B	C	D	E	F	MAX PIPE SIZE	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16	3/4-10	1 3/8	2	1/2	1	7/8	4	0.55	400
1/2-13		1 3/8	2	1/2	1	7/8	4	0.56	500
5/8-11		1 7/8	2 3/8	5/8	1 3/8	1 1/4	5	0.66	850
3/4-10		1 7/8	2 3/8	5/8	1 3/8	1 1/4	6	0.83	900

FIG. 62
JUNIOR TOP BEAM CLAMP

FM APPROVED

c UL us LISTED



Material: Malleable iron with hardened steel set screw. 304 (62SS) and 316 (62SX) stainless steel.

Finish: Plain or electro-galvanized.

Service: Designed to attach hanger rod to the top flange of a beam or bar joist where flange thickness does not exceed 5/8 of an inch.

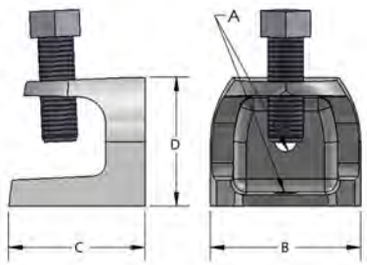
Approvals: U.L. - U.L.C. listed 3/8 and 1/2 (1/2 for 4" IPS max). FM approved for 3/8 only. Complies with Federal Specification A-A-1192 A (Type# 19) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 19).

Ordering: Specify rod size, material, figure number and finish.

Notes: See MSS SP-69 for proper set screw recommendations. Stainless steel beam clamps are recommended for corrosive environments. **Order 62D for domestic.**

ROD SIZE A	SET SCREW	B	C	D	E	F	MAX PIPE SIZE	MAX REC LOAD (lbs)	WEIGHT EACH (lbs)
3/8-16	3/8-16	1 5/16	1 1/2	1/2	1	7/8	4	350	0.320
1/2-13		1 5/16	1 1/2	1/2	1	7/8	4	470	0.320
5/8-11		1 3/4	1 3/4	5/8	1 3/8	1 1/8	5	550	0.580
3/4-10		1 7/8	1 7/8	5/8	1 3/8	1 3/8	6	700	0.820
7/8-9	1/2-13	2 3/8	1 7/8	5/8	1 3/8	1 3/8	8	1000	0.795

FIG. 63
ELECTRICAL ROD SUPPORT CLAMP



Material: Malleable iron.

Finish: Electro-galvanized.

Service: Designed to attach hanger rod to beam or framework where thickness does not exceed 1/2 inch. Rod tap on both bottom and back of clamp.

Ordering: Specify rod size and figure number.

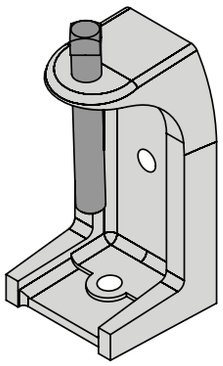
ROD SIZE A	SET SCREW	B	C	D	MAX REC LOAD (lbs)	WEIGHT EACH (lbs)
1/4-20	5/16-18	1 3/16	1 3/8	1/2	335	0.260
5/16-18		1 3/16	1 3/8	1/2	335	0.250
3/8-16	1/2-13	2 1/16	1 3/4	5/8	525	0.700
1/2-13		2 1/2	2 3/16	5/8	750	1.26

ATLAS ANCHOR

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Manufactured in the USA

FIG. 63EWM
EXTRA-WIDE GALVANIZED IRON BEAM CLAMP



Material: Malleable iron.

Finish: Electro-galvanized.

Service: Designed to attach hanger rod to beam or framework. Rod tap on both bottom and back of clamp.

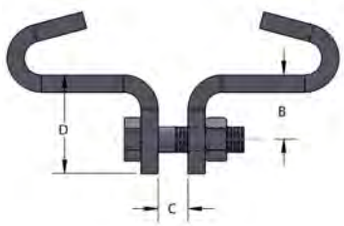
Approvals: Complies with CUL, UL.

Ordering: Specify rod size and figure number.

ROD SIZE	FLANGE THICKNESS	JAW OPENING	THREADED HOLES	MAX LOAD CAPACITY (lbs)	TESTING LOAD CAPACITY (lbs)	WEIGHT EACH (lbs)
5/16-18 x 2-1/2	Up to 3"	3 1/8	1/4-20	200	600	0.9110
3/8-16 x 4	Up to 3"	3 1/8	3/8-16	300	900	1.0500
1/2-13 x 2-1/2	Up to 3"	3 1/8	1/2-13	400	1200	1.5000

FIG. 150
BEAM CLAMP

Manufactured in the USA



Material: Carbon steel, also avaialable in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for attaching hanger rods from the center of an I-beam. Normally used with figure 26, 26W eyerods, or figure 13 weldless eye nut.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 21), A-A-1192 A (Type# 21), and MSS SP-58 and SP-69 (Type# 21).

Ordering: Specify clamp size, flange width, beam thickness, figure number and finish.

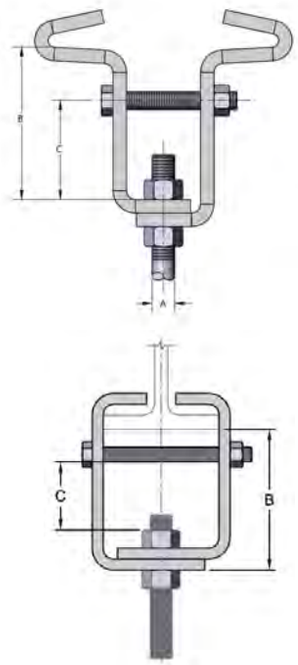
Notes: Not recommended for beams greater than 12 inches wide.

CLAMP SIZE	MATERIAL	BOLT	B	C	D	MAX REC LOAD (lbs)
1	1/4 x 1 1/4	1/2	1 1/8	5/8	1 3/4	1000
2	1/2 x 2	3/4	1 5/8	7/8	2 5/8	3000

FIG. 155
STEEL BEAM CLAMP

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



Sizes #1 to #4 with flanges less than 4" are box style
Sizes #5 to #6 with flanges 5" and less are box style

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed for attaching hanger rods to be centered under beam flanges. The clamp provides a vertical adjustment of approximately 2 inches.

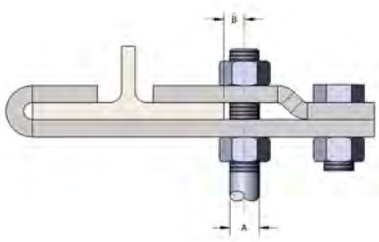
Ordering: Specify clamp size, beam thickness, flange width, figure number and finish.

Notes: Not recommended for beams greater than 12 inches wide. Sizes 2 through 4 with flanges less than 4" are box style. Sizes 5 with flanges 5 " and less are box style. Sizes 6 with flanges 5½ and less are box style.

CLAMP SIZE	STOCK SIZE	A	B	C	MAX REC LOAD (lbs)
1	1/4 x 1 1/4	3/8	4	3	550
2	1/4 x 1 1/2	1/2			850
3	3/8 x 1 1/2	5/8	4 1/2	3 1/4	1100
4	3/8 x 2	3/4			1500
5	1/2 x 2	7/8	5	3 1/2	2600
6	1/2 x 2 1/2	1			4300

FIG. 156
SIDE STEEL BEAM CLAMP

Manufactured in the USA



Material: Carbon steel, also avaialable in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed to be used where it is necessary for the hanger rod to run vertically close to the beam's edge, eliminating drilling of holes in structural member.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 53), A-A-1192 A (Type# 25), and MSS SP-58 and SP-69 (Type# 25).

Ordering: Specify clamp size, flange width and thickness, figure number and finish.

Notes: Not recommended for beams greater than 12 inches wide.

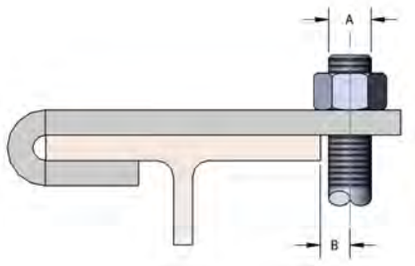
SIZE NO.	STOCK SIZE	A	B
1	1 1/4 x 1/4	3/8	5/16
2	1 1/4 x 1/4	1/2	5/16
3	1 1/2 x 3/8	5/8	7/16
4	2 x 3/8	3/4	1/2
5	2 1/2 x 1/2	7/8	9/16

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Manufactured in the USA

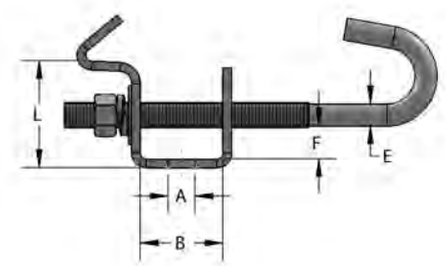
FIG. 158
TOP BEAM HOOK



Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain, electro-galvanized or painted.
Service: Designed for attaching hanger rod to the top flange of a beam.
Ordering: Specify size, flange width, thickness and finish.
Notes: Not recommended for beams greater than 12 inches wide.

HOOK SIZE	MATERIAL SIZE	A	B
1	1 1/4 x 1/4	3/8	5/16
2	1 1/4 x 1/4	1/2	3/8
3	1 1/2 x 3/8	5/8	7/16
4	2 x 3/8	3/4	1/2
5	2 1/2 x 1/2	7/8	9/16

FIG. 159
ADJUSTABLE ROD BEAM CLAMP

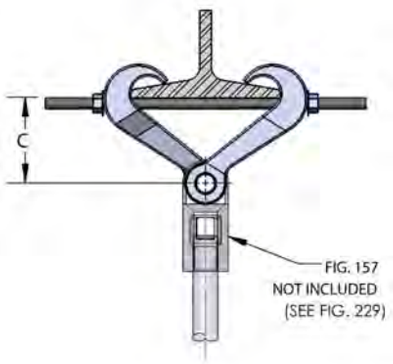


Material: Carbon steel.
Finish: Plain or electro-galvanized.
Service: Designed to be used in the suspension of a hanger rod from an I-beam. Recommended for flange widths from 4 inches minimum to 8 inches maximum.
Approvals: Complies with Federal Specifications WW-H-171-E (Type# 54), A-A-1192 A (Type# 27), and MSS SP-58 and SP-69 (Type# 27).
Ordering: Specify rod size, figure number and finish.

SIZE A	MATERIAL	FLANGE WIDTH		B	E	F	L	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
		MIN	MAX						
3/8-16	3ga x 1 1/4	3 1/2	8	2	3/8	1	2 3/4	0.98	300
1/2-13	3ga x 1 1/2	3 1/2			1/2	15/16		1.38	700
5/8-11	3ga x 1 3/4	3 1/2			5/8	7/8		1.86	1000
3/4		6		3 3/8	3/4	2	4	6.50	1800

BEAM CLAMPS

FIG. 218
MALLEABLE IRON CENTER LOAD BEAM CLAMP



Material: Malleable iron.

Finish: Plain or electro-galvanized.

Service: Designed for the suspension of a hanger rod from the center of an I-beam. The clamp accommodates flange widths of 2 3/8" - 7". Flange thickness not to exceed .60 inches. Normally used in conjunction with figure 157 extension piece. Figure 157 provides 1" of vertical adjustment.

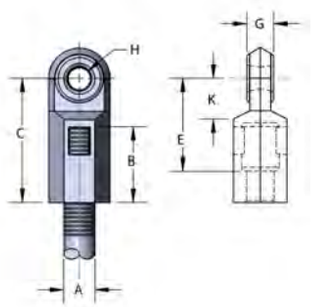
Approvals: When used with FIG. 157 Extension Piece, complies with Federal Specification WW-H-171-E (Type# 30), A-A-1192 A (Type# 30) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 30).

Ordering: Specify figure number and finish.

Notes: For complete assembly with extension piece see FIG. 229.

A (7/8 MAX ROD)	C ROD TAKE OUT FOR WIDTH OF BEAM FLANGE						BOLT DIA	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
	2 3/8	3	4	5	6	7			
CLAMP ONLY	3 1/2	3 7/16	3 5/16	2 15/16	2 9/16	1 7/8	7/16	2.49	1365

FIG. 157
EXTENSION PIECE



Material: Malleable iron.

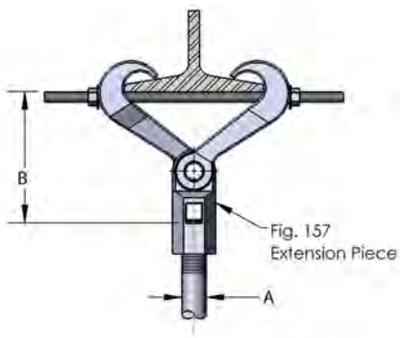
Finish: Plain or electro-galvanized.

Service: Designed for attaching hanger rod to various type of attachments. Allows a 1 inch vertical adjustment of the rod.

Ordering: Specify rod size, figure number and finish.

SIZE A	PIPE SIZE	B	C	E	G	H	K	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16	1/2 to 2	1 5/16	2 1/16	1 3/16	1/2	1/2	9/16	0.19	610
1/2-13	2 1/2 to 3 1/2	1 7/16	2 5/16	1 5/16	5/8		11/16	0.41	1130
5/8-11	4 to 5	1 9/16	2 7/16	1 7/16	5/8		3/4	0.42	1810
3/4-10	6	1 7/8	2 7/8	1 9/16	5/8		7/8	0.68	2710
7/8-9	8 to 12	2	3 1/16	1 11/16	3/4	9/16	7/8	0.78	2950

FIG. 229
MALLEABLE BEAM CLAMP WITH EXTENSION PIECE



Material: Malleable iron.

Finish: Plain or electro-galvanized.

Service: Designed for the suspension of a hanger rod from the center of an I-beam. The clamp accommodates flange widths of 2 3/8" to 7". Flange thickness not to exceed .60 inches. Extension piece provides 1" of vertical adjustment.

Approvals: Complies with Federal Specification WW-H- 171-E (Type# 30), A-A-1192A (Type# 30) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 30).

Ordering: Specify rod size, figure number and finish.

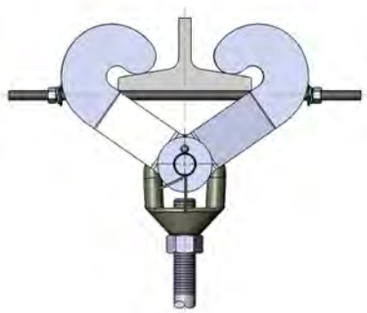
SIZE A	B ROD TAKE-OUT FOR WIDTH OF BEAM FLANGE						BOLT DIA	WGT EACH (lbs)	MAX REC LOAD (lbs)
	2 3/8	3	4	5	6	7			
3/8 - 16	4 3/4	4 11/16	4 9/16	4 3/16	3 13/16	3 1/8	7/16	2.42	610
1/2 - 13	4 7/8	4 13/16	4 11/16	4 5/16	3 15/16	3 1/4		2.63	1130
5/8 - 11	4 15/16	4 7/8	4 3/4	4 3/8	4	3 5/16		2.67	1365
3/4 - 10	5 3/16	5 1/8	5	4 5/8	4 1/4	3 9/16		2.87	1365
7/8 - 9	5 1/4	5 3/16	5 1/16	4 11/16	4 5/16	3 5/8		3.01	1365

FIG. 450
HEAVY BEAM CLAMP ASSEMBLY

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Manufactured in the USA



Material: ASTM A-36 carbon steel with ASTM A-235 class C eye-nut.

Finish: Plain, electro-galvanized or painted.

Service: Designed to be used for the suspension of heavy loads from beams up to 16 inches wide and up to 1 inch thick. Normally used with figure 26, 26W eyerods or figure 13, 13I weldless eye nuts.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 28 without links, Type #29 with links), A-A-1192A (Type# 28 without links, Type #29 with links) and Manufacturers' Standardization Society MSS SP- 58 and SP-69 (Type# 28 without links, Type #29 with links).

Ordering: Specify clamp size, figure number, rod size and finish.

Notes: Maximum loads are based on maximum rod sizes. For load capacity of other rod sizes, see page 117.

SIZE	FLANGE SIZE		MAX ROD	WGT EACH (lbs)	MAX LOAD (lbs)
	WIDTH	MAX THICKNESS			
1	3-8	5/8	3/4	8	2800
2	7-12*			12	2800
3	3-8	3/4	1	11	5000
4	7-15*			16	5000
5	5-11	1	1 1/2	30	11500
6	8-16*			48	11500
*Supplied with links					

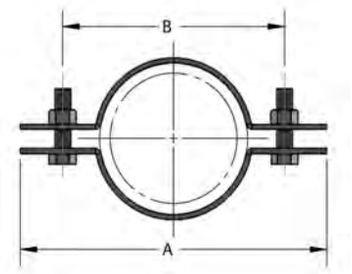
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Manufactured in the USA

FIG. 48
RISER CLAMP FOR PLASTIC PIPE

FIG. 49PC
RISER CLAMP FOR PLASTIC PIPE, PLASTIC COATED



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, plastic coated.

Service: Designed as a support of plastic DWV pipe.

Approvals: Complies with Federal Specification WWH-171-E. (Type# 8), A-A-1192A (Type# 8), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 8).

Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	A	B	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1 1/2	1.900	11ga x 1.250	5/16	5 1/2	3 1/2	.56	225
2	2.375		5/16	6 1/16	4 1/16	.60	
3	3.500		3/8	7 1/4	5 1/4	.80	
4	4.500		3/8	8 1/2	6 1/2	.98	

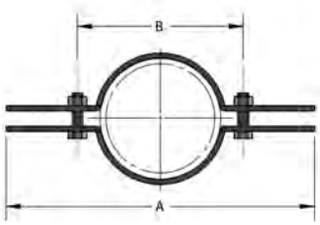
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FIG. 50
STANDARD RISER CLAMP

c UL us LISTED

Manufactured in the USA



Material: Carbon steel, 304 (50SS) and 316 (50SX) stainless steel.

Finish: Plain, painted, electro-galvanized, hot-dip galvanized, plastic coated.

Service: Designed for supporting and stabilizing vertical pipe runs.

Approvals: U.L. - U.L.C. listed (sizes 2" - 8"). Complies with Federal Specification WW-H-171-E (Type# 8), A-A-1192 A (Type# 8) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 8).

Ordering: Specify pipe size, figure number and finish.

Notes: Plastic coated riser clamps are completely plastic coated with zinc plated hardware. The plastic coating prevents pipe from coming in contact with the clamp and is designed to reduce noise, vibration and prevent electrolysis between pipe and clamp. Stainless steel riser clamps are recommended for applications where protection from corrosive environments is needed.

PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	A	B	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.870	8ga x 1.0	3/8	8 5/8	2 1/8	0.88	220
3/4	1.050	8ga x 1.0		8 13/16	2 5/16	0.92	220
1	1.315	8ga x 1.0		9 1/16	2 5/8	0.94	220
1 1/4	1.660	8ga x 1.0		9 7/8	2 15/16	1.00	250
1 1/2	1.900	8ga x 1.0		10	3 7/16	1.04	250
2	2.375	8ga x 1.0		10 9/16	4	1.14	300
2 1/2	2.875	3ga x 1.0		11 1/8	4 9/16	1.60	400
3	3.500	3ga x 1.0		11 13/16	5 1/4	1.70	500
3 1/2	4.000	3ga x 1.0	1/2	13	6	2.06	600
4	4.500	3ga x 1.0		13 5/8	6 5/8	2.20	750
5	5.563	3ga x 1.5		14 1/8	7 5/8	3.40	1500
6	6.625	3ga x 1.5		15 3/8	8 7/8	3.72	1600
8	8.625	3/8 x 1.5	5/8	18 5/8	12	7.22	2500
10	10.750	3/8 x 2.0		21	14 1/2	10.94	2500
12	12.750	1/2 x 2.0		22 3/4	16 3/4	16.10	2700
14	14.000	1/2 x 2.0		24	17 7/8	17.00	2700
16	16.000	5/8 x 2 1/2	3/4	26	21	29.16	2900
18	18.000	5/8 x 2 1/2		28	23 1/8	31.91	2900
20	20.000	5/8 x 2 1/2		30	25	35.00	2900
24	24.000	⅝ x 2 ½	7/8	36	29 ¼	42.00	2900
30	30.000	¾ x 4	1	42	35 ¾	95.00	3200

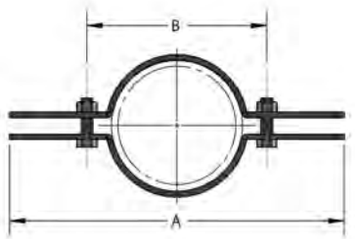
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Manufactured in the USA Excluding 50CTI

FIG. 50DIP STANDARD RISER CLAMP SIZED FOR DIP – FIG. 50



Material: Carbon steel, also available in 304 (50SS) and 316 (50SX) stainless steel.

Finish: Plain

Service: Designed for supporting and stabilizing vertical pipe runs.

Approvals: U.L. - U.L.C. listed (sizes 2" - 8"). Complies with Federal Specification WW-H-171-E (Type# 8), A-A-1192 A (Type# 8) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 8).

Ordering: Specify pipe size, figure number and finish.

Pipe Size	Pipe OD	Material Size	Bolt	A	B	Wgt Each (lbs)	Max REC Load (lbs)
3	3.96	8ga x 1	3/8	11 13/16	5 1/4	1.70	500
4	4.80	3ga x 1.0	1/2	13 5/8	6 5/8	2.20	750
6	6.90	3ga x 1.5	1/2	15 3/8	8 7/8	3.72	1600
8	9.05	3/8 x 1.5	5/8	18 5/8	12	7.22	2500
10	11.10	3/8 x 2.0	5/8	21	14 1/2	10.94	2500
12	13.20	1/2 x 2.0	5/8	22 3/4	16 3/4	16.10	2700

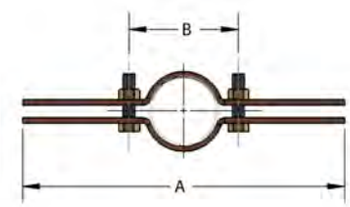
M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

Manufactured in the USA Excluding 50CTI

FIG. 50CT
COPPER PLATED COPPER TUBING RISER CLAMP

FIG. 50CTI
EPOXY COATED **(COPPER-GARD)** COPPER TUBING RISER CLAMP



Material: Carbon steel.

Finish: Copper plated (50CT) or Copper epoxy coated (COPPER-GARD-50CTI). COPPER-GARD products offer superior corrosion protection due to the epoxy coating over electro-galvanized steel. The alternative copper plating that has been done historically identifies the product and is not intended for protection. Refer to MSS SP58, 13.3.

Service: Designed for supporting and stabilizing vertical tubing runs.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 8), A-A-1192A (Type# 8), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 8).

Ordering: Specify pipe size, figure number and finish.

TUBE SIZE	TUBE OD	MATERIAL SIZE	BOLT	A	B	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.625	11ga x 1.0	1/4	6 11/16	1 11/16	0.48	225
3/4	0.875		1/4	7	2	0.50	225
1	1.125		1/4	8 3/4	2 1/4	0.64	250
1 1/4	1.375		1/4	9	2 1/2	0.66	250
1 1/2	1.625		1/4	9 3/8	2 7/8	0.68	250
2	2.125	8ga x 1.0	3/8	9 15/16	3 3/8	1.06	500
2 1/2	2.625		3/8	10 1/2	4	1.08	500
3	3.125		3/8	11	4 7/16	1.16	500
3 1/2	3.625		3/8	12 3/16	5 1/8	1.58	500
4	4.125	8ga x 1.25	3/8	12 5/8	5 9/16	1.66	500
5	5.125	3ga x 1.50	1/2	14 1/8	7 1/8	3.42	815
6	6.125		1/2	15	8	3.76	815

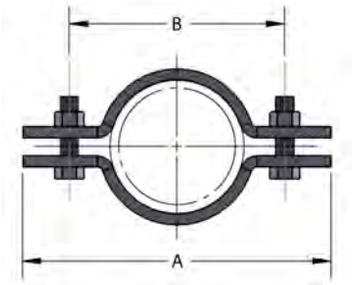
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FIG. 50SA
SHORT ARM RISER CLAMP

M.B.E. (Minority Business Enterprise)

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Manufactured in the USA



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

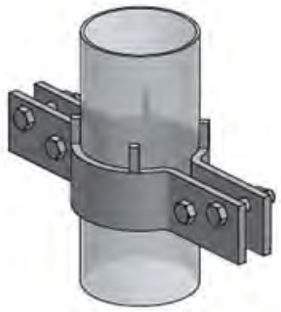
Service: Designed for supporting and stabilizing vertical pipe runs. Overall length of clamp is shorter than standard to accommodate field requirements.

Approvals: Complies with Federal Specification WWH-171-E (Type# 8), A-A-1192A (Type# 8), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 8).

Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	A	B	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1	1.315	8ga x 1.0	5/16	4 11/16	2 11/16	0.50	170
1 1/4	1.660		5/16	5 3/16	3 3/16	0.58	260
1 1/2	1.900		5/16	5 1/2	3 1/2	0.60	260
2	2.375		5/16	6	4	0.60	260
2 1/2	2.875	3ga x 1.0	3/8	6 5/8	4 5/8	1.12	260
3	3.500		3/8	7 5/16	5 5/16	1.18	260
4	4.500		1/2	8 9/16	6 9/16	1.54	450
5	5.563	3ga x 1.5	1/2	9 3/4	7 3/4	2.64	770
6	6.625		1/2	10 7/8	8 7/8	2.80	770

FIG. 50HD
HEAVY DUTY RISER CLAMP



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or hot-dip galvanized

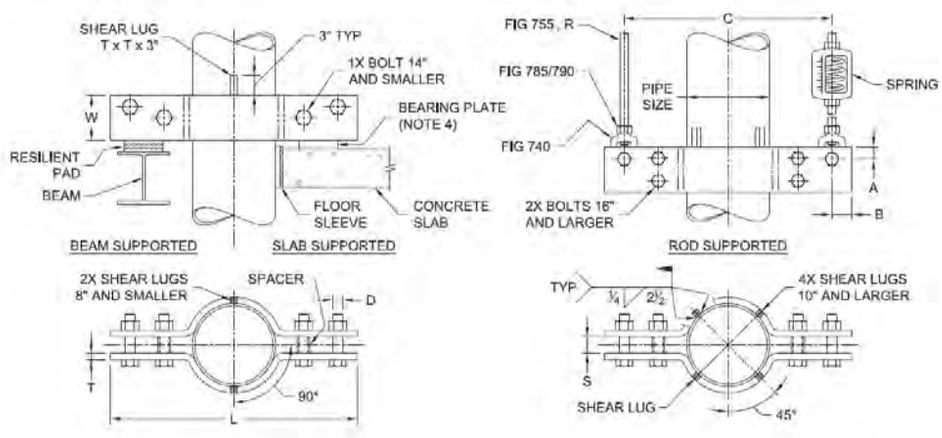
Service: Designed to support vertical piping from hanger rods or structural members such as beams and concrete slabs. Shear lugs field welded to pipe wall transfer pipe load to riser clamp.

Approvals: MSS SP-58 Type 42

Ordering: Specify pipe size, figure number and finish.

Notes: 650ºF for Black Carbon Steel and Stainless Steel 350ºF for Hot-Dip Galvanized Carbon Steel. Maximum recommended load on rigid support. Loads may be doubled when used with springs or other resilient devices. Welding in accordance with AWS D1.1 for carbon steel and AWS D1.6 for stainless steel. Local pipe wall stress due to welded shear lug attachment evaluation available upon request, provide: pipe material, pipe wall thickness, operating pressure and temperature, and corrosion allowance. Concrete bearing plate as necessary by others. For special designs, contact factory with pipe size, material, load, operating temperature, C and L dimensions, finish and support type.

PIPE SIZE	T x W	A	B	C	D	L	S	R	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
2	½ x 2 ½	1 ¼	2	18	½	22	¾	½	16.00	900
2 ½	½ x 2 ½	1 ¼	2	20	½	24	¾	½	18.00	900
3	⅝ x 3	1 ¼	2	20	⅝	24	1	⅝	27.30	1500
4	¾ x 4	1 ¼	2	22	¾	26	1 ¼	¾	46.70	2200
5	¾ x 4	1 ¼	2	22	¾	26	1 ¼	¾	47.40	2200
6	¾ x 5	1 ¼	2	24	⅞	28	1 ½	¾	66.00	3000
8	¾ x 5	1 ¼	2	27	⅞	31	1 ½	¾	74.00	3000
10	1 x 6	1 ⅝	3	30	1 ¼	36	2 ¼	1	141.00	5500
12	1 x 7	1 ⅞	3	32	1 ½	38	2 ½	1 ¼	185.00	7800
14	1 x 7	1 ⅞	3	34	1 ½	40	2 ½	1 ¼	195.00	7800
16	1¼ x 8	2	3	36	1 ½	42	2 ½	1 ¼	283.00	9000
18	1¼ x 8	2	3	39	1 ½	45	2 ½	1 ¼	302.00	9000
20	1¼ x 8	2 ⅝	4 ¼	42	2	50 ½	3 ½	1 ½	364.48	13500
24	1¼ x 8	2 ⅝	4 ¼	45	2	53 ½	3 ½	1 ½	391.00	13500



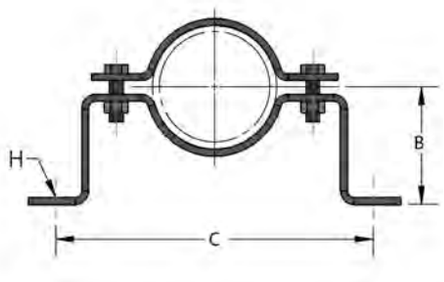
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ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 95
OFFSET PIPE CLAMP



Material: Carbon steel. Also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for supporting horizontal or vertical pipe lines at a fixed distance from wall or floor. This clamp can be furnished with "B" dimensions to suit field conditions.

Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	B	C	H	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/4	1.050	1 1/4 x 1/4	3/8	2 1/2	7 3/16	7/16	1.25	200
1	1.315	1 1/4 x 1/4		2 5/8	7 9/16		1.33	
1 1/4	1.660	1 1/4 x 1/4		2 13/16	7 7/8		1.42	
1 1/2	1.900	1 1/4 x 1/4		2 15/16	8 1/4		1.49	
2	2.375	1 1/4 x 1/4		3 3/16	9 1/8		2.03	410
2 1/2	2.875	1 1/4 x 1/4		3 7/16	10 1/2		2.25	
3	3.500	1 1/4 x 1/4		3 3/4	11 1/8		2.50	
3 1/2	4.000	1 1/4 x 1/4		4	11 5/8		2.75	
4	4.500	1 1/2 x 1/4	1/2	4 1/4	12 1/2	9/16	3.68	600
5	5.563	1 1/2 x 1/4		4 3/4	13 3/4		4.25	
6	6.625	1 1/2 x 3/8		5 5/16	16 1/2		6.80	850
8	8.625	1 1/2 x 3/8		5 5/16	18 5/8		8.20	

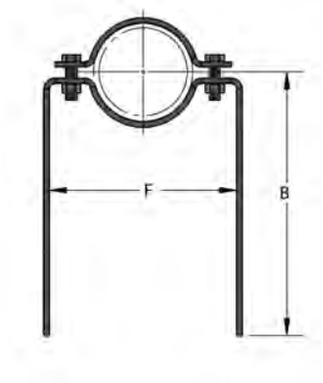
FIG. 97
EXTENDED PIPE CLAMP

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR



Manufactured
in the USA



Material: Carbon steel. Also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for suspending or supporting pipe lines where exact distance between structure and pipe cannot be determined until installation.

Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	B	F	WEIGHT EACH (lbs)
3/4	1.050	1 1/4 x 1/4	3/8	12	4 7/16	1.85
1	1.315			12	4 11/16	2.34
1 1/4	1.660			12	5	2.40
1 1/2	1.900			12	5 1/4	2.45
2	2.375	1 1/2 x 1/4	1/2	12	6	3.13
2 1/2	2.875			12	7 1/4	4.20
3	3.500			12	7 7/8	4.47
3 1/2	4.000			12	8 3/8	4.74
4	4.500			12	9 1/4	4.90
5	5.563			12	10 1/2	5.32
6	6.625	2 x 3/8	5/8	12	12 1/2	11.15
8	8.625			12	14 5/8	12.65

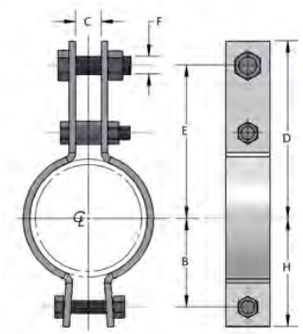
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ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 189
DOUBLE BOLT PIPE CLAMP



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for the suspension of insulated pipe lines. Normally used with weldless eye nut, figure #13.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 3), A-A-1192 A (Type# 3), and MSS SP-58 and SP-69 (Type# 3).

Ordering: Specify pipe size, figure number and finish.

Notes: Available in 304 and 316 stainless steel.

PIPE SIZE	PIPE OD	MATERIAL SIZE	F BOLT	B	C	D	E	H	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	8ga x 1.00	3/8	1	5/8	2 7/8	2 5/16	1 9/16	0.540	950
3/4	1.050	8ga x 1.00	3/8	1 1/16	5/8	3	2 7/16	1 5/8	0.570	950
1	1.315	8ga x 1.00	3/8	1 3/8	5/8	3 3/16	2 5/8	1 15/16	0.605	950
1 1/4	1.660	8ga x 1.00	3/8	1 1/2	5/8	3 1/2	2 15/16	2 1/16	0.675	950
1 1/2	1.900	4ga x 1.25	5/8	1 15/16	7/8	4 11/16	3 13/16	2 13/16	1.715	1545
2	2.375	4ga x 1.25	5/8	2 3/16	7/8	5 9/16	4 11/16	3 1/16	1.925	1545
2 1/2	2.875	4ga x 1.25	5/8	2 7/16	7/8	6 7/16	5 9/16	3 5/16	2.115	1545
3	3.500	4ga x 1.25	5/8	2 3/4	1	7	6 1/8	3 5/8	2.260	1545
3 1/2	4.000	4ga x 1.25	5/8	2 7/8	1	7 1/4	6 3/8	3 3/4	2.365	1545
4	4.500	3/8 x 2	3/4	3 1/2	1 1/16	7 5/8	6 1/2	4 1/2	7.50	2500
5	5.563	3/8 x 2	3/4	4	1 1/16	8 1/8	7	5	8.13	2500
6	6.625	3/8 x 2 1/2	1	5	1 7/16	9 15/16	8 9/16	6 1/8	13.11	2865
8	8.625	3/8 x 2 1/2	1	6	1 7/16	10 15/16	9 9/16	7 1/8	14.67	2865
10	10.750	1/2 x 2 1/2	1	7 1/2	1 7/16	12	10 5/8	8 7/8	21.67	3240
12	12.750	1/2 x 2 1/2	1	8 1/2	1 7/16	13	11 5/8	9 7/8	23.83	3240
14	14.000	5/8 x 3	1 1/4	9 3/8	2	14 5/16	12 11/16	11	37.50	4300
16	16.000	5/8 x 3	1 1/4	10 3/8	2	15 5/16	13 11/16	12	41.00	4300
18	18.000	5/8 x 3	1 1/4	11 3/8	2	16 5/16	14 11/16	13	46.46	4300
20	20.000	3/4 x 3	1 1/2	12 3/4	2	17 1/2	15 7/8	14 3/8	60.00	5490
24	24.000	3/4 x 3	1 1/2	14 3/4	2	19 1/2	17 7/8	16 3/8	70.43	4500

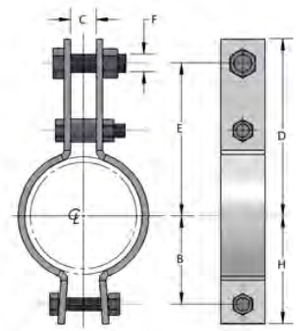
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FIG. 189A
ALLOY DOUBLE BOLT PIPE CLAMP

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



Material: Alloy steel (ASTM A387 grade 22).

Finish: Plain.

Service: Designed for suspension of high temperature insulated pipe lines, maximum temperature is 1,050°F.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 3), A-A-1192 A (Type# 3), and MSS SP-58 and SP-69 (Type# 3).

Ordering: Specify pipe size and figure number.

Notes: Galvanizing is not recommended for alloy products.

PIPE SIZE	PIPE OD	MATERIAL SIZE	B	C	D	E	H	WEIGHT EACH (lbs)	MAX REC LOAD (lbs) FOR SERVICE TEMP			
									650°F	750°F	1000°F	1050°F
1 1/2	1.900	1/4 x 1 1/4	1 13/16	1 1/16	4 7/8	4 1/8	2 3/8	2.3	1545	1410	1000	745
2	2.375	1/4 x 1 1/4	2 1/8	1 1/16	5 7/8	5 1/8	2 11/16	2.6	1545	1410	1000	745
2 1/2	2.875	1/4 x 1 1/4	2 5/16	1 1/16	6 1/8	5 3/8	2 15/16	2.7	1545	1410	1000	745
3	3.500	1/4 x 1 1/4	2 3/4	1 1/16	6 11/16	5 15/16	3 1/2	3.0	1545	1410	1000	745
4	4.500	3/8 x 2	3 3/8	1 1/16	7 5/8	6 1/2	4 1/2	6.7	2500	2290	1625	1200
5	5.563	3/8 x 2	3 15/16	1 1/16	8 1/8	7	5	7.0	2500	2290	1625	1200
6	6.625	3/8 x 2 1/2	4 3/4	1 7/16	9 15/16	8 9/16	6 1/8	11.5	2865	2620	1860	1380
8	8.625	3/8 x 2 1/2	5 3/4	1 7/16	10 15/16	9 9/16	7 1/8	13.2	2865	2620	1860	1380
10	10.750	1/2 x 2 1/2	7 1/16	1 7/16	12	10 5/8	8 1/4	19.8	3240	2970	2100	1565
12	12.750	1/2 x 2 1/2	8 1/16	1 7/16	12 15/16	11 5/8	9 5/16	22.3	3240	2970	2095	1555
14	14.000	5/8 x 3	9 1/16	2	14 5/16	12 11/16	10 11/16	37.7	4300	3915	2795	2060
16	16.000	5/8 x 3	10 1/16	2	15 5/16	13 11/16	11 11/16	41.4	4300	3915	2795	2060
18	18.000	5/8 x 3	11 1/16	2	16 5/16	14 11/16	12 11/16	44.9	4300	3915	2780	2060
20	20.000	3/4 x 3	12 3/8	2	17 1/2	15 7/8	14	57.3	5490	4995	3550	2635
24	24.000	3/4 x 4	14 3/8	2	19 1/2	17 7/8	16	65.9	4500	4095	2910	2160

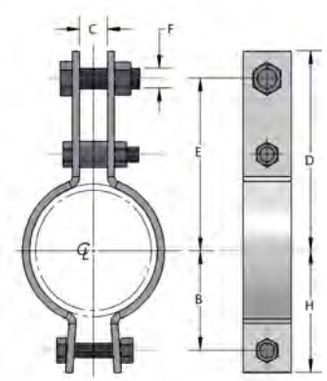
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ATLAS ANCHOR

FIG. 189H
HEAVY DUTY DOUBLE BOLT PIPE CLAMP

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or electro-galvanized.

Service: Designed for suspension of high temperature pipe lines within the limitation of temperature and loads shown below.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 3), A-A-1192 A (Type# 3), and MSS SP-58 and SP-69 (Type# 3).

Ordering: Specify pipe size, figure number and finish.

Notes: Maximum temperature is 750°F and accommodates up to 4" thick insulation.

PIPE SIZE	PIPE OD	MATERIAL SIZE	F BOLT	B	C	D	E	H	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)	
										650°F	750°F
6	6.625	2 1/2 x 3/8	1	4 3/4	1 3/4	10 3/16	8 15/16	6	12.00	3500	3125
8	8.625	2 1/2 x 1/2	1 1/8	6	2	11 3/8	10 1/8	7 1/4	18.50	4800	4285
10	10.750	3 1/2 x 1/2	1 1/4	7 1/4	2 1/4	13 1/8	11 3/8	9	30.25	5500	4910
12	12.750	4 x 5/8	1 1/2	8 5/8	2 1/2	14 5/16	12 9/16	10 3/8	42.00	7000	6250
14	14.000	4 x 3/4	1 1/2	9 5/8	2 1/2	15 1/2	13 1/2	11 5/8	60.00	9500	8485
16	16.000	4 1/2 x 3/4	1 3/4	10 7/8	3	17 1/8	14 7/8	13 1/8	80.00	10000	8930
18	18.000	4 x 1	2	12 1/2	3 1/2	18 1/4	16 1/4	14 1/2	115.00	13800	12325
20	20.000	5 x 1	2	13 1/2	3 1/2	19 3/4	17 1/4	16	140.00	15300	13665
24	24.000	6 x 1	2	15 1/2	3 1/2	22 5/16	19 5/16	18 1/2	190.00	16300	14555

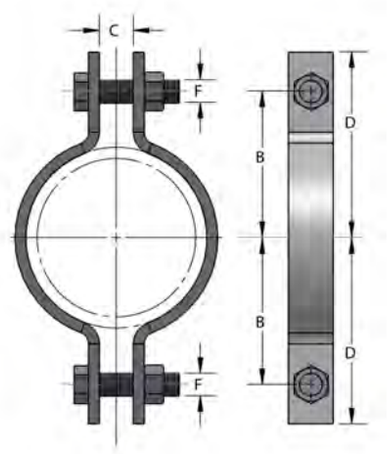
FIG. 212
STANDARD STEEL PIPE CLAMP

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR



Manufactured in the USA



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or electro-galvanized.

Service: Designed for the suspension of cold pipe lines or hot pipe lines where no insulation is required.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 4), A-A-1192 A (Type# 4), and MSS SP-58 and SP-69 (Type# 4).

Ordering: Specify pipe size, figure number and finish.

Notes: Available in 304 and 316 stainless steel and alloy steel.

PIPE CLAMPS

PIPE SIZE	PIPE OD	MATERIAL SIZE S	BOLT F	B	C	D	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	11ga x 1	5/16	1 1/8	7/16	1 11/16	0.27	500
3/4	1.050	11ga x 1	5/16	1 1/4	7/16	1 13/16	0.30	500
1	1.315	11ga x 1	5/16	1 7/16	7/16	2	0.33	500
1 1/4	1.660	11ga x 1	5/16	1 9/16	7/16	2 1/8	0.36	500
1 1/2	1.900	11ga x 1	5/16	1 11/16	1/2	2 1/4	0.37	800
2	2.375	3ga x 1	1/2	2 5/16	1/2	3 3/16	1.04	1040
2 1/2	2.875	3ga x 1	1/2	2 5/8	3/4	3 1/2	1.19	1040
3	3.500	3ga x 1	1/2	2 7/8	3/4	3 3/4	1.27	1040
3 1/2	4.000	3ga x 1	1/2	3 1/8	3/4	4	1.43	1040
4	4.500	4ga x 1 1/4	5/8	3 5/8	3/4	4 1/2	1.94	1040
5	5.563	4ga x 1 1/4	5/8	4 1/8	7/8	5	2.20	1040
6	6.625	3/8 x 1 1/2	3/4	5	7/8	5 7/8	5.42	1615
8	8.625	3/8 x 1 1/2	3/4	6 1/8	1	7	6.51	1615
10	10.750	1/2 x 2	7/8	7 7/16	1	8 9/16	13.60	2490
12	12.750	1/2 x 2	7/8	8 7/16	1	9 9/16	16.05	2490
14	14.000	1/2 x 2 1/2	7/8	9 1/4	1 1/8	10 5/8	20.00	2490
16	16.000	1/2 x 2 1/2	7/8	10 1/4	1 1/8	11 5/8	22.00	2490
18	18.000	5/8 x 2 1/2	1	11 5/8	1 1/4	13	32.00	3060
20	20.000	5/8 x 2 1/2	1 1/8	12 3/4	1 3/8	14 1/8	36.00	3060

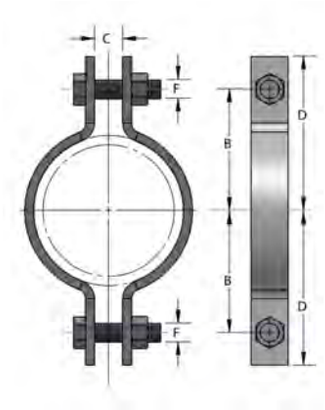
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ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 212DIP
STANDARD STEEL PIPE CLAMP SIZED FOR DIP



Material: Carbon steel, also available in 304 and 316 stainless steel.

Service: Designed for the suspension of cold pipe lines or hot pipe lines where no insulation is required.

Ordering: Specify pipe size, figure number and finish.

Notes: Available in 304 and 316 stainless steel and alloy steel.

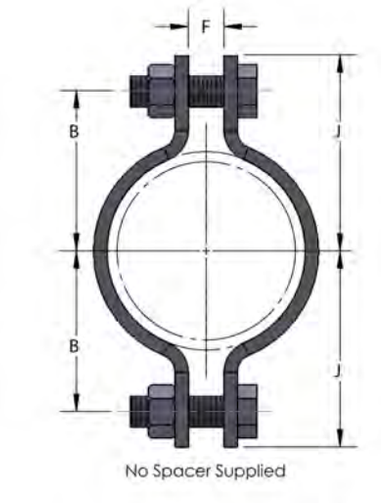
Pipe Size	Pipe OD	Material Size S	F Bolt	B	C	D	Wgt Each (lbs)	Max REC Load (lbs)
4	4.80	4ga x 1 1/4	5/8	3 11/16	3/4	4 9/16	2.25	1040
6	6.90	3/8 x 1 1/2	3/4	5 1/8	7/8	6 1/16	5.75	1615
8	9.05	3/8 x 1 1/2	3/4	6 3/8	1	7 3/8	6.5	1615

FIG. 216
HEAVY DUTY TWO-BOLT PIPE CLAMP

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

Manufactured in the USA



No Spacer Supplied

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for the suspension of cold or hot pipe lines with heavy loads where no insulation is required.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 4), A-A-1192 A (Type# 4), and MSS SP-58 and SP-69 (Type# 4).

Ordering: Specify pipe size, figure number and finish.

Notes: Available in 304 and 316 stainless and alloy steel.

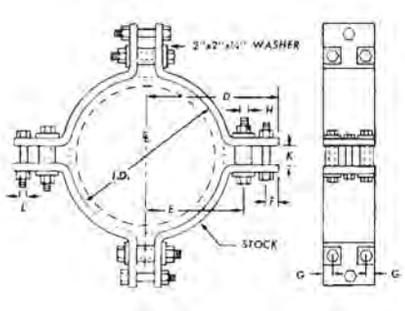
PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	B	F	J	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)	
								650°F	750°F
3	3.500	1/4 x 1 1/2	3/4	3 1/8	1	4	2.67	3300	3235
3 1/2	4.000	1/4 x 1 1/2	3/4	3 5/16	1	4 3/16	3.36	3300	3235
4	4.500	3/8 x 2	7/8	3 3/4	1	4 7/8	5.93	3515	3135
5	5.563	3/8 x 2	7/8	4 3/8	1	5 1/2	6.56	3515	3135
6	6.625	1/2 x 2 1/2	1	5 1/4	1 1/8	6 5/8	12.40	4865	4340
8	8.625	1/2 x 2 1/2	1	6 1/4	1 1/8	7 5/8	14.66	4865	4340
10	10.750	5/8 x 2 1/2	1 1/4	7 11/16	1 1/4	9 1/16	24.07	6010	5360
12	12.750	3/4 x 3	1 1/2	9 1/4	1 5/8	10 7/8	40.95	8675	7740
14	14.000	3/4 x 4	1 1/2	10		11 7/8	55.50	9120	8135
16	16.000	3/4 x 4	1 1/2	11	1 5/8	12 7/8	59.40	9120	8135
18	18.000	3/4 x 6	2	12 3/16		14 5/16	70.12	9150	8160
20	20.000	1 x 5	2	13 5/16	1 5/8	15 7/16	74.68	9150	8160
24	24.000	1 x 6	2	15 3/8	1 3/4	17 3/4	126.29	9200	8205

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M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

FIG. 570
FOUR SECTION RODDING BAND



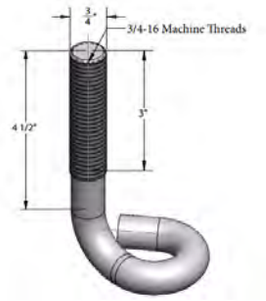


Manufactured in the USA

Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain, hot-dip galvanized or painted.
Service:	Designed to be used to avoid possibility of joint separation on high pressure water mains.
Approvals:	Made to specifications of the City of New York and the New York City Port Authority.
Ordering:	Specify size, figure number and finish.
Notes:	Four heavy square washer plates drilled for the correct rod size are furnished with each clamp.

PIPE SIZE	ID	STOCK	D	E	F	G	H	K	L	TIE ROD SIZE
4	4 7/8	3/8 x 3	7 1/2	4 3/8	1	1 1/2	7/8	1 1/4	5/8	3/4
6	7	3/8 x 3	8 1/2	5 3/8		1 1/2		1 1/4		3/4
8	9 1/8	1/2 x 4	9	6 3/8		1		1 1/4		3/4
12	13 3/8	1/2 x 4 1/2	12 1/4	8 7/8		1		1 1/2		1
16	17 1/4	1/2 x 5	14 1/4	10 7/8		1		1 1/2		1
20	21 1/2	1/2 x 5 1/2	16 3/8	13		1 1/4		1 1/2		1
24	26	1/2 x 5 1/2	19	15 1/4		1 1/4		1 7/8		1 3/8
30	32 1/4	5/8 x 6	23	18 3/4		1 1/4		2 1/4		1 3/4
36	38 1/2	3/4 x 7	26 1/4	22		1 1/2		2 1/4		1 3/4

FIG. 575
CORPORATION EYE BOLT

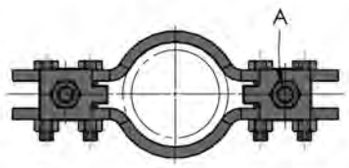


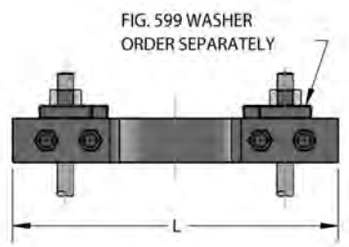
Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain.
Service: Designed to be used with figure number 600 socket clamp.
Ordering: Specify figure number.

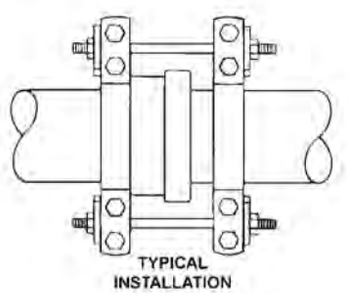
BOLT SIZE	WGT (lbs)
3/4	1.0

FIG. 595
FOUR BOLT SOCKET CLAMP


Manufactured in the USA





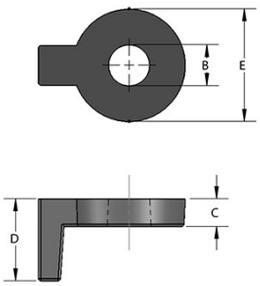


Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain or electro-galvanized.
Service: Designed to used to clamp mechanical joint or socket joint piping and fittings together to prevent separation or distortion of pipe lines under excessive water pressure.
Approvals: Complies with the requirements of the National Fire Protection Association standard NFPA 24 for outside protection.
Ordering: Specify size, figure number and finish.

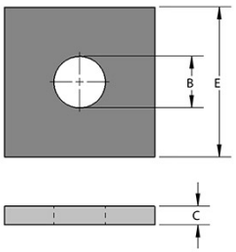
PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	A	L	WGT EACH (lbs)
3	3.960	1/2 x 2	5/8	3/4	13	8.6
4	4.800	1/2 x 2	5/8	3/4	14 5/8	9.38
6	6.900	1/2 x 2	5/8	3/4	16 7/8	11.50
8	9.050	5/8 x 2 1/2	5/8	3/4	19 1/8	20.54
10	11.100	5/8 x 2 1/2	3/4	1	21 3/8	23.15
12	13.200	5/8 x 3	7/8	1	25 1/8	35.85
14	15.300	3/4 x 3	7/8	1 1/4	28 1/4	46.78
16	17.400	3/4 x 4	1	1 1/4	31 3/8	70.53
18	19.500	3/4 x 4	1 1/4	1 1/4	35 1/8	84.65
20	21.600	3/4 x 5	1 1/4	1 3/8	37 3/4	98.65
24	25.800	3/4 x 5	1 1/2	1 1/2	44 1/4	135.50

FIG. 599
SOCKET CLAMP WASHER

3/4" Style



1" through 1-1/2" Style



Material: Cast Iron/Carbon steel (see notes).

Finish: Plain, electro-galvanized.

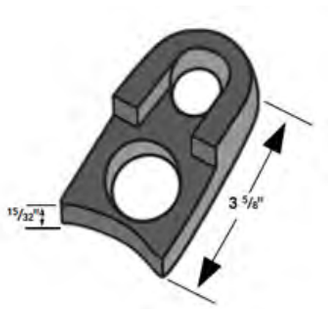
Service: Designed to be used with figure 600 socket clamp, washer lugs hook around clamp bolts to secure tie rods within clamp legs.

Ordering: Specify size, figure number and finish.

Notes: The 3/4" rod size socket clamp washer is a cast iron product with tab feature. This accommodates pipe sizes 4"-12". The 1"-1 1/2" rod size washer are a carbon steel flat style. these accommodate pipe sizes 14"-24".

TIE ROD SIZE	B HOLE DIA	C	D	E	FOR USE WITH PIPE SIZE	WGT EACH (lbs)
3/4	7/8	5/8	1 3/4	2 3/8	3" - 12"	0.80
1	1 1/8	1/2	-	4	14"	2.16
1 1/8	1 1/4	1/2	-	4	16"	2.13
1 1/4	1 3/8	3/4	-	4	18"	3.14
1 3/8	1 1/2	3/4	-	4	20"	3.08
1 1/2	1 9/16	3/4	-	4	24"	3.02

FIG. 599a
Ductile Lug

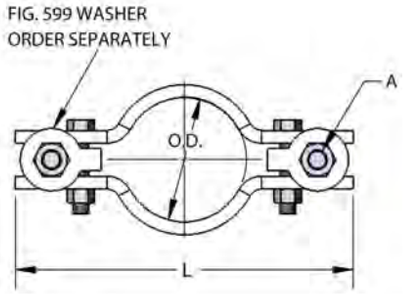


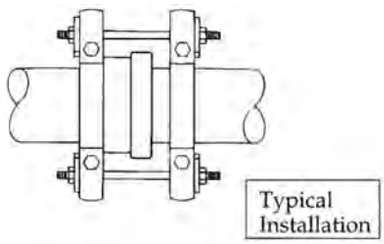
Material: Ductile iron per ASTM A536, Grade 65-45-12

Service: Restriant of MJ Fittings 4" - 24" Accomodates 3/4" rod

Approximate Weight (lbs)	Max Load (lbs)
0.844	7500

FIG. 600
SOCKET CLAMP







Manufactured
in the USA

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed to be used to clamp joints of underground AWWA ductile iron water lines to prevent joint separation due to excessive water pressure.

Ordering: Specify size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	BOLT	A ROD DIA.	L	WGT EACH (lbs)
3	3.960	2 X 3/8	5/8	3/4	12	5.95
4	4.800	2 X 1/2	5/8	3/4	12 3/4	8.00
6	6.900	2 X 1/2	5/8	3/4	15 1/2	10.00
8	9.050	2 X 1/2	5/8	3/4	17 1/2	12.10
10	11.100	2 X 1/2	5/8	3/4	19 1/2	13.63
12	13.200	2 X 1/2	5/8	3/4	22	15.65
14	15.300	3 X 3/4	7/8	1	28 1/2	45.00
16	17.400	4 X 3/4	1	1 1/8	30 3/4	63.00
18	19.500	4 X 3/4	1 1/4	1 1/4	34 5/8	76.00
20	21.600	5 X 3/4	1 1/4	1 3/8	37 1/2	100.50
24	25.800	5 X 3/4	1 1/2	1 1/2	43	118.00

FIG. 903
MANHOLE DROP PIPE CLAMP



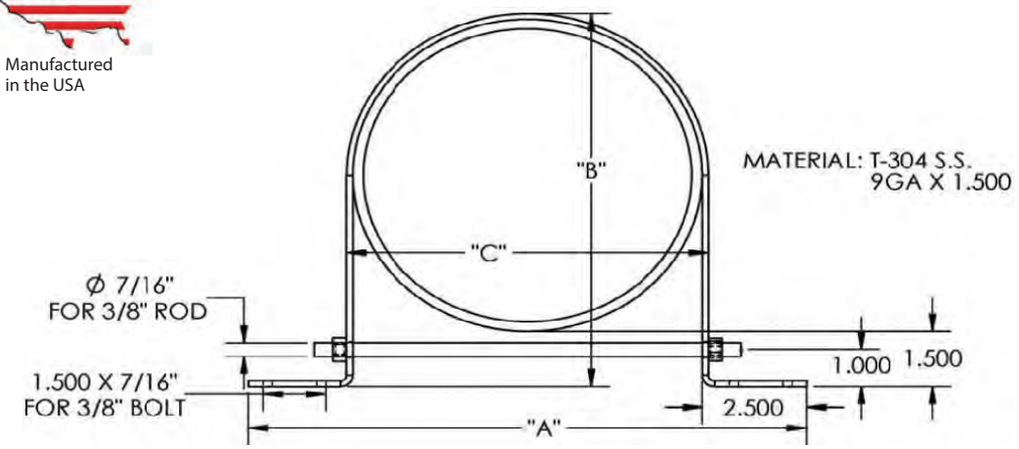
Material: Certified T-304 Stainless Steel

Service: Designed for easy installation and support of manhole drop pipe.

Ordering: Specify size, figure number and name



Manufactured in the USA



SIZE	SDR-35 PIPE OD	ROD LENGTH	"A"	"B"	"C"
4"	4.125"	5 7/8"	9.215"	5.865"	4.514"
6"	6.275"	7 5/8"	11.275"	7.925"	6.574"
8"	8.400"	10 1/4"	13.400"	10.050"	8.700"
10"	10.500"	12 1/4"	15.500"	12.150"	10.800"
12"	12.500"	14 1/4"	17.500"	14.150"	12.800"

SIZE	DIP / C-900 OD	ROD LENGTH	"A"	"B"	"C"
4"	4.800"	6 1/2"	9.800"	6.450"	5.100"
6"	6.900"	8 3/4"	11.900"	8.550"	7.200"
8"	9.050"	10 7/8"	14.050"	10.700"	9.350"
10"	11.100"	12 7/8"	16.100"	12.750"	11.400"
12"	13.200"	15"	18.200"	14.850"	13.500"

SIZE	IPS OD	ROD LENGTH	"A"	"B"	"C"
4"	4.500"	6 3/8"	9.500"	6.150"	4.800"
6"	6.625"	8"	11.625"	8.275"	6.924"
8"	8.625"	10 1/2"	13.625"	10.275"	8.924"
10"	10.750"	12 1/2"	15.750"	12.400"	11.050"
12"	12.750"	14 1/2"	17.750"	14.400"	13.050"

FIG. 13 WELDLESS EYENUT, DOMESTIC, RIGHT HAND THREADS

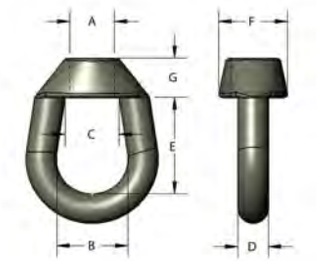
FIG. 13I WELDLESS EYENUT, RIGHT HAND THREADS

FIG. 13L WELDLESS EYENUT, DOMESTIC, LEFT HAND THREADS

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

Manufactured in the USA Excluding 13I



Material: Forged carbon steel, 316 stainless steel.

Finish: Plain, electro-galvanized, hot-dip galvanized.

Service: Designed for use on high temperature piping applications.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 17), A-A-1192 A (Type# 17), and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 17).

Ordering: Specify rod size, figure number and finish.

Notes: Supports loads equal to the full limitation of the hanger rod. When figure 13I is supplied in hot-dip galvanized finish, it is not tapped oversized.

SIZE A	B	C	D	E	F	G	WGT EACH (lbs)	MAX REC LOAD (lbs)	
								650[a] F	750[a] F
3/8-16	1 1/4	13/16	3/8	1 9/16	1	5/8	0.23	610	540
1/2-13	1 1/4	13/16	3/8	1 9/16	1	5/8	0.55	1130	1010
5/8-11	1 1/2	1 3/16	1/2	2	1 3/8	11/16	0.52	1810	1610
3/4-10	1 1/2	1 3/16	1/2	2	1 3/8	11/16	1.70	2710	2420
7/8-9	2	1 13/16	3/4	2 3/8	1 15/16	1	1.70	3770	3360
1-8	2	1 13/16	3/4	2 3/8	1 15/16	1	1.70	4960	4420
1 1/8-7	2 1/2	1 13/16	1	3 3/8	2 3/8	1 1/4	3.70	6230	5560
1 1/4-7	2 1/2	1 13/16	1	3 3/8	2 3/8	1 1/4	3.50	8000	7140
1 1/2-6	2 1/2	1 13/16	1	3 3/8	2 3/8	1 1/4	3.50	11630	10370

FIG. 26M
MACHINE EYEBOLT



Material: Drop Forged, shoulder or regular pattern
Finish: Plain, galvanized, or stainless steel.
Ordering: Specify size, figure number and finish.
Notes: See Warnings for proper use

Shank Diameter	Shank Length	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit
1/4	1	0.75	1.25	0.05	500
5/16	1-1/8	0.87	1.50	0.08	900
3/8	1-1/4	1.00	1.65	0.14	1,300
7/16	1-3/8	1.09	1.84	0.19	2,000
1/2	1-1/2	1.18	2.06	0.30	2,400
9/16	1-5/8	1.28	2.28	0.47	3,200
5/8	1-3/4	1.37	2.50	0.60	4,000
3/4	2	1.50	2.81	0.90	5,000
7/8	2-1/4	1.68	3.25	1.3	7,000
1	2-1/2	1.81	3.56	2.0	9,000
1-1/4	3	2.18	4.43	4.0	15,000
1-1/2	3-1/2	2.50	5.18	7.0	21,000

FIG. 26DF
REGULAR EYEBOLT



Material: Drop Forged, Furnished with standard hex nuts
Finish: Plain, galvanized, or stainless steel.
Ordering: Specify size, figure number and finish.
Notes: See Warnings for proper use

STAINLESS STEEL

Shank Diameter and Length	Length of Thread	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit
1/4 x 2	1.5	0.50	1.00	0.09	500
1/4 x 4	2.5	0.50	1.00	0.12	500
5/16 x 2-1/4	1.5	0.62	1.25	0.16	800
5/16 x 4-1/4	2.5	0.62	1.25	0.17	800
3/8 x 2-1/2	1.5	0.75	1.50	0.24	1,200
3/8 x 4-1/2	2.5	0.75	1.50	0.30	1,200
1/2 x 3-1/4	1.5	1.00	2.00	0.54	2,200
1/2 x 6	3	1.00	2.00	0.69	2,200
5/8 x 4	2	1.25	2.50	1.04	3,500
5/8 x 6	3	1.25	2.50	1.15	3,500
3/4 x 4-1/2	2	1.50	3.00	1.65	5,200
3/4 x 6	3	1.50	3.00	1.38	5,200

FIG. 26DF - Regular Eyebolt

(continued from previous page)

GALVANIZED

Shank Diameter and Length	Length of Thread	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit
1/4 x 2	1.5	0.50	1.00	0.07	500
1/4 x 4	2.5	0.50	1.00	0.12	500
5/16 x 2-1/4	1.5	0.62	1.25	0.13	800
5/16 x 4-1/4	2.5	0.62	1.25	0.20	800
3/8 x 2-1/2	1.5	0.75	1.50	0.24	1,200
3/8 x 4-1/2	2.5	0.75	1.50	0.31	1,200
3/8 x 6	2.5	0.75	1.50	0.35	1,200
1/2 x 3-1/4	1.5	1.00	2.00	0.55	2,200
1/2 x 6	3	1.00	2.00	0.74	2,200
1/2 x 8	3	1.00	2.00	0.78	2,200
1/2 x 10	3	1.00	2.00	0.88	2,200
1/2 x 12	3	1.00	2.00	1.05	2,200
5/8 x 4	2	1.25	2.50	1.01	3,500
5/8 x 6	3	1.25	2.50	1.15	3,500
5/8 x 8	3	1.25	2.50	1.31	3,500
5/8 x 10	3	1.25	2.50	1.52	3,500
5/8 x 12	4	1.25	2.50	1.86	3,500
5/8 x 15	5	1.25	2.50	2.00	3,500
5/8 x 18	5	1.25	2.50	2.10	3,500
5/8 x 21	5.5	1.25	2.50	2.40	3,500
5/8 x 24	5.5	1.25	2.50	2.65	3,500
3/4 x 4-1/2	2	1.50	3.00	1.56	5,200
3/4 x 6	3	1.50	3.00	1.84	5,200
3/4 x 8	3	1.50	3.00	2.08	5,200
3/4 x 10	3	1.50	3.00	2.30	5,200
3/4 x 12	4	1.50	3.00	2.52	5,200
3/4 x 15	5	1.50	3.00	3.10	5,200
7/8 x 5	2.5	1.75	3.50	2.84	7,200
7/8 x 8	4	1.75	3.50	3.20	7,200
7/8 x 12	4	1.75	3.50	3.87	7,200
1 x 6	3	2.00	4.00	3.85	10,000
1 x 9	4	2.00	4.00	4.52	10,000
1 x 12	4	2.00	4.00	5.26	10,000
1 x 18	7	2.00	4.00	6.67	10,000
1-1/4 x 8	4	2.50	5.00	7.50	15,200
1-1/4 x 12	4	2.50	5.00	9.00	15,200
1-1/4 x 20	6	2.50	5.00	12.09	15,200

FIG. 26DFS
SHOULDER EYEBOLT



Material:	Drop Forged, Furnished with standard hex nuts
Finish:	Plain, galvanized, or stainless steel.
Ordering:	Specify size, figure number and finish.
Notes:	See Warnings for proper use

GALVANIZED

Shank Diameter and Length	Length of Thread	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit
1/4 x 2	1.5	0.50	0.87	0.07	500
1/4 x 4	2.5	0.50	0.87	0.10	500
5/16 x 2-1/4	1.5	0.62	1.12	0.12	800
5/16 x 4-1/4	2.5	0.62	1.12	0.17	800
3/8 x 2-1/2	1.5	0.75	1.37	0.21	1,200
3/8 x 4-1/2	2.5	0.75	1.37	0.28	1,200
1/2 x 3-1/4	1.5	1.00	1.75	0.42	2,200
1/2 x 6	3	1.00	1.75	0.59	2,200
5/8 x 4	2	1.25	2.25	0.83	3,500
5/8 x 6	3	1.25	2.25	1.00	3,500
3/4 x 4-1/2	2	1.50	2.75	1.54	5,200
3/4 x 6	3	1.50	2.75	1.77	5,200
7/8 x 5	2.5	1.75	3.25	2.23	7,200
7/8 x 8	4	1.75	3.25	2.66	7,200
1 x 6	3	2.00	3.75	3.56	10,000
1 x 9	4	2.00	3.75	4.20	10,000
1-1/2 x 15	6	2.50	5.50	14.25	15,200

STAINLESS STEEL

Shank Diameter and Length	Length of Thread	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit
1/4 x 2	1.5	0.50	0.87	0 .09	460
1/4 x 4	2.5	0.50	0.87	0.12	460
5/16 x 2-1/4	1.5	0.62	1.12	0.16	780
5/16 x 4-1/4	2.5	0.62	1.12	0.17	780
3/8 x 2-1/2	1.5	0.75	1.37	0.24	1,160
3/8 x 4-1/2	2.5	0.75	1.37	0.30	1,160
1/2 x 3-1/4	1.5	1.00	1.75	0.54	2,150
1/2 x 6	3	1.00	1.75	0.69	2,150
5/8 x 4	2	1.25	2.25	1.04	3,440
5/8 x 6	3	1.25	2.25	1.25	3,440
3/4 x 4-1/2	2	1.50	2.75	1.65	5,140
3/4 x 6	3	1.50	2.75	1.80	5,140

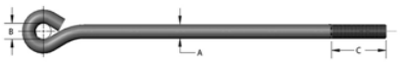
ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

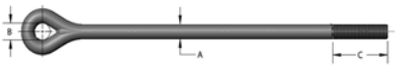
Manufactured in the USA

FIG. 26
PLAIN EYE ROD
FIG. 26W
WELDED EYE ROD

Not welded FIG. 26



Welded FIG. 26W



Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain, electro-galvanized.
Service:	Designed for use in hanger assemblies and supports.
Ordering:	Specify rod size, length, figure number and finish.
Notes:	Other lengths, rod diameters and thread lengths available on request.

ROD SIZE A	B	C	MAX REC LOAD (lbs)		
			FIG# 26 (NOT WELDED) 650° F	FIG# 26 (WELDED)	
				650° F	750° F
3/8-16	0.500	2.500	240	610	540
1/2-13	0.625	2.500	440	1130	1010
5/8-11	0.750	2.500	705	1810	1610
3/4-10	0.875	3.000	1050	2710	2420
7/8-9	1.000	3.500	1470	3770	3360
1-8	1.125	4.000	1940	4960	4420
1 1/8-7	1.250	4.500	2430	6230	5560
1 1/4-7	1.375	5.000	3120	8000	7140
1 1/2-6	1.625	6.000	4650	11630	10370

ANCHORS & FASTENERS

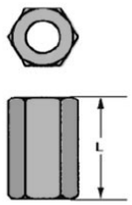
FIG. 47
EYE SOCKET



Material:	Malleable iron.
Finish:	Plain, electro-galvanized, copper plated.
Service:	Designed for attaching hanger rod to various types of hangers.
Approvals:	Complies with Federal Specification WWH-171-E. (Type# 25), A-A-1192A (Type# 16), Manufacturers' Standardization Society SP-58 and MSS SP-69 (Type# 16).
Ordering:	Specify rod size, figure number and finish.

SIZE A	PIPE SIZE	B	C	D	E	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/4-20	3/8	1/4	1 3/8	7/8	1 1/8	0.05	230
3/8-16	1/2 to 2	1/4	1 9/16	1 1/8	1 1/4	0.07	610
1/2-13	2 1/2 to 3 1/2	1/4	1 7/8	1 1/4	1 1/2	0.14	1000
5/8-11	4 to 5	3/8	2 1/4	1 9/16	1 3/4	0.22	1400
3/4-10	6	1/2	2 7/16	1 7/8	2 1/16	0.32	2200
7/8-9	8	1/2	2 3/4	1 1/8	2 5/16	0.53	2300

FIG. 51
ROD COUPLING



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or electro-galvanized.

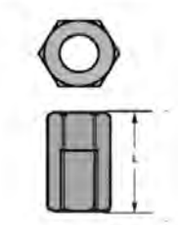
Service: Designed for connecting two lengths of rod with equal diameters.

Ordering: Specify rod size, figure number and finish.

Notes: Stainless steel rod couplings are recommended for applications where protection from corrosive environment is needed.

SIZE	LENGTH	HEX WIDTH	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/4-20	7/8	3/8	0.02	230
3/8-16	1 3/4	5/8	0.11	610
1/2-13	1 3/4	11/16	0.10	1130
5/8-11	2 1/8	13/16	0.18	1810
3/4-10	2 1/4	1	0.28	2710
7/8-9	2 1/2	1 1/4	0.55	3770
1-8	2 3/4	1 3/8	0.71	4960
1 1/8-7	3	1 1/2	0.86	6230
1 1/4-7	3	1 5/8	0.95	8000
1 1/2-6	3 1/2	2	1.88	11,630

FIG. 51R
REDUCING ROD COUPLING



Material: Carbon steel, also available in 304 and 316 stainless steel.

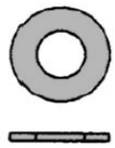
Finish: Electro-galvanized.

Service: Designed for connecting two lengths of rod with different diameters.

Ordering: Specify rod sizes and figure number.

SIZE	LENGTH	HEX WIDTH	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16 x 1/4-20	1	1/2	0.04	225
1/2-13 x 3/8-16	1 1/4	5/8	0.07	610
5/8-11 x 1/2-13	1 1/4	13/16	0.14	1130
3/4-10 x 5/8-11	1 1/2	1	0.21	1810
7/8-9 x 3/4-10	1 3/4	1 1/4	0.40	2710
1-8 x 7/8-9	2	1 3/8	0.55	3770

FIG. 52
ROUND STEEL WASHER



Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain, electro-galvanized or hot-dip galvanized.
Ordering: Specify size, figure number and finish.
Notes: Available packaged and bulk.

SIZE	OD	ID	WEIGHT EACH (lbs)
1/4	3/4	5/16	0.01
3/8	1	7/16	0.02
1/2	1 3/8	9/16	0.04
5/8	1 3/4	11/16	0.08
3/4	2	13/16	0.11
7/8	2 1/4	15/16	0.15
1	2 1/2	1 1/16	0.19
1 1/8	2 3/4	1 1/4	0.22
1 1/4	3	1 3/8	0.26
1 1/2	3 1/2	1 5/8	0.39

FIG. 52F
FENDER WASHER



Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Electro-galvanized.
Service: Designed to produce a greater bearing surface.
Ordering: Specify size and figure number.

SIZE	OD	ID	PCS/50lbs (approx.)	WEIGHT EACH (lbs)
1/4	1 1/2	9/32	1575	0.03
3/8	1 1/2	13/32	1650	0.03
1/2	2	17/32	925	0.05

FIG. 52L
LOCK WASHER



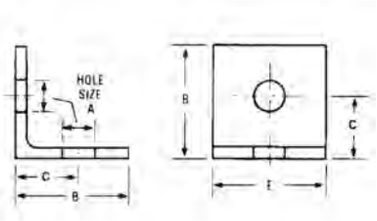
Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain or electro-galvanized.
Ordering:	Specify size, figure number and finish.

SIZE	WEIGHT EACH (lbs)
1/4	0.01
3/8	0.01
1/2	0.01
5/8	0.02
3/4	0.03

FIG. 53
ANGLE BRACKET



Manufactured in the USA



Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain or electro-galvanized.
Service:	Designed for attaching hanger rod to the side of beams or walls.
Approvals:	Complies with Federal Specification WW-H-171-E (Type# 35), A-A-1192 A (Type# 34), and MSS SP-58 and 7SP-69 (Type# 34).
Ordering:	Specify rod size, figure number and finish.
Notes:	Also available in stainless steel.

SIZE	HOLE SIZE A	MATERIAL THICKNESS	B	C	D	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16	7/16	8ga	2 1/16	1 5/16	1 1/2	0.225	300
1/2-13	9/16	3ga	2 1/8	1 3/8	1 1/2	0.330	560
5/8-11	11/16	3/8	2 3/4	1 5/8	2 1/2	1.130	900
3/4-10	13/16	3/8	3 1/4	2 3/16	2 1/2	1.390	900

FIG. 54
CONTINUOUS THREADED ROD



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, hot-dip galvanized.

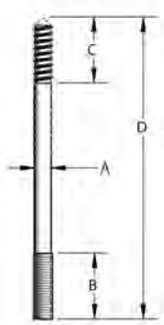
Service: Useful in applications for attaching hangers to structural attachments.

Ordering: Specify rod size, figure number and finish.

Notes: Stainless steel rod is recommended for applications where protection from corrosive environments is needed.

SIZE A	WGT/FT (lbs)	MAX REC LOAD (lbs)	
		650ºF	750ºF
1/4-20	0.12	240	210
3/8-16	0.29	610	540
1/2-13	0.54	1130	1010
5/8-11	0.83	1810	1610
3/4-10	1.25	2710	2420
7/8-9	1.70	3770	3360
1-8	2.23	4960	4420
1 1/8-7	2.81	6230	5560
1 1/4-7	3.54	8000	7140
1 1/2-6	5.12	11630	10370

FIG. 55
HANGER BOLTS



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

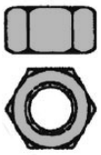
Service: Designed for suspending pipe supports from wood structures.

Ordering: Specify rod size, length, figure number and finish.

Notes: Also available in stainless steel.

SIZE A	MINIMUM LENGTH		WEIGHT EACH (lbs) LENGTH D						
	MACHINE B	COACH C	3 1/2	4	4 1/2	6	8	10	12
1/4-20	1 5/8	1 3/4	0.04	—	—	—	—	—	—
3/8-16			0.08	—	0.11	0.14	0.19	0.23	0.29
1/2-13			—	0.14	0.21	0.22	0.32	0.36	0.40
5/8-11			—	0.24	—	—	—	—	—

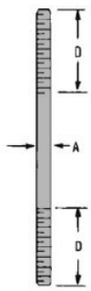
FIG. 56
STANDARD HEX NUT, PACKAGED
FIG. 56H
HEAVY HEX NUT, PACKAGED



Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain, electro-galvanized.
Ordering: Specify rod size, figure number and finish.
Notes: Also available in bulk.

SIZE	WEIGHT EACH (lbs)	
	56	56H
1/4-20	0.01	0.01
3/8-16	0.02	0.03
1/2-13	0.04	0.07
5/8-11	0.07	0.12
3/4-10	0.12	0.19
7/8-9	0.19	0.30
1-8	0.28	0.43
1 1/8-7	0.40	0.59
1 1/4-7	0.54	0.79
1 1/2-6	0.95	1.31

FIG. 57
HANGER ROD, RIGHT HAND THREADS



Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain, electro-galvanized.
Service: Designed for use in pipe hanger assemblies.
Ordering: Specify rod size, length, figure number and finish.
Notes: Available in both right and left hand threads.

SIZE A	THREAD LENGTH D	WGT/FT (lbs)	MAX REC LOAD (lbs)	
			650°F	750°F
1/4-20	SPECIFY	0.12	240	210
3/8-16	SPECIFY	0.29	610	540
1/2-13	SPECIFY	0.54	1130	1010
5/8-11	SPECIFY	0.83	1810	1610
3/4-10	SPECIFY	1.25	2710	2420
7/8-9	SPECIFY	1.70	3770	3360
1-8	SPECIFY	2.23	4960	4420
1 1/8-7	SPECIFY	2.81	6230	5560
1 1/4-7	SPECIFY	3.54	8000	7140
1 1/2-6	SPECIFY	5.12	11630	10370

FIG. 58
HEX HEAD BOLT



Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain, electro-galvanized.
Service: Designed for use as a fastening device.
Ordering: Specify rod size, length, figure number and finish.
Notes: Also available in stainless steel. Available packaged or in bulk.

SIZE A	WEIGHT EACH (lbs)												
	LENGTH												
	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/2	5	5 1/2	6
3/8-16	0.072	0.080	0.087	0.095	0.103	0.111	0.119	0.126	0.134	0.150	0.168	0.181	0.196
1/2-13	0.144	0.157	0.171	0.185	0.199	0.213	0.226	0.240	0.254	0.282	0.309	0.337	0.364
5/8-11	0.228	0.250	0.271	0.293	0.314	0.336	0.358	0.379	0.401	0.444	0.487	0.530	0.573
3/4-10	0.351	0.382	0.413	0.445	0.476	0.504	0.538	0.569	0.600	0.662	0.724	0.787	0.849
7/8-9	0.511	0.550	0.592	0.634	0.677	0.719	0.761	0.803	0.846	0.930	1.015	1.100	1.184
1-8	0.701	0.748	0.799	0.854	0.910	0.968	1.020	1.075	1.130	1.241	1.351	1.462	1.572
1 1/8-7	—	—	—	—	1.240	—	1.370	—	1.510	1.650	1.780	1.920	2.050
1 1/4-7	—	—	—	—	1.610	—	1.780	—	1.950	2.120	2.290	2.450	2.620
1 1/2-6	—	—	—	—	2.460	—	2.690	—	2.940	3.190	3.440	3.690	3.940

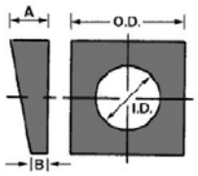
FIG. 59
DRIVE SCREW



Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain.
Service: Designed for fastening attachments to wood beams.
Ordering: Specify size and figure number.

SIZE A	LENGTH	WEIGHT EACH (lbs)
12	1 1/2	0.014
14	1 1/2	0.016
16	2	0.025

FIG. 72
BEVEL WASHER



Material: Malleable iron.

Finish: Plain or electro-galvanized.

Service: Designed to compensate for taper of "S" shape beam flanges so that bearing surface of bolt or nut will seat flush.

Ordering: Specify bolt size, finish and figure number.

SIZE A	OD	ID	THICKNESS		WEIGHT EACH (lbs)
			A	B	
3/8	1 1/4	7/16	11/32	5/32	0.09
1/2	1 1/4	9/16	11/32	5/32	0.09
5/8	1 1/2	11/16	13/32	5/32	0.14
3/4	1 1/2	13/16	15/32	7/32	0.16
7/8	2	15/16	9/16	7/32	0.34

FIG. 73
DROP IN ANCHOR



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Electro-galvanized.

Service: Designed to be inserted into a pre-drilled hole and set by means of a setting tool to provide attachment point for bolts or hanger rods.

Ordering: Specify bolt or rod size and figure number.

SIZE	DRILL DIAMETER	MIN DEPTH	THREAD DEPTH	WEIGHT EACH (lbs)
1/4	3/8	1 1/4	7/16	0.020
3/8	1/2	1 7/8	5/8	0.060
1/2	5/8	2 3/8	13/16	0.120
5/8	7/8	3	1 3/16	0.320
3/4	1	3 1/2	1 3/8	0.480

FIG. 73SD
MINI DROP-IN ANCHORS



Material: Carbon steel

Finish: Electro-galvanized.

Service: Designed to be inserted into a pre-drilled hole and set by means of a setting tool to provide attachment point for bolts or hanger rods.

Ordering: Specify bolt or rod size and figure number.

SIZE	DRILL DIAMETER	MIN DEPTH	THREAD DEPTH	WEIGHT EACH (lbs)
3/8	1/2	3/4	3/8	0.035
1/2	5/8	1	1/2	0.060

FIG. 74
HEX LAG SCREW



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Electro-galvanized.

Service: Designed for fastening devices to wood.

Ordering: Specify fastener diameter, length (excluding head), and figure number.

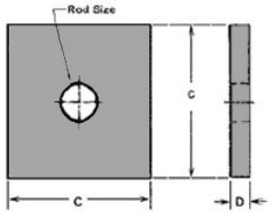
SIZE DIA	WEIGHT EACH (lbs)								
	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6
1/4-20	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07
3/8-16	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.17
1/2-13	—	0.14	0.16	0.19	0.20	0.23	0.25	0.27	0.31
5/8-11	—	0.23	0.27	0.31	0.34	0.38	0.41	0.45	0.52
3/4-10	1	—	—	—	—	0.58	0.63	0.68	0.78

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

ATLAS ANCHOR

FIG. 75
STEEL WASHER PLATE



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

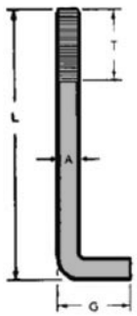
Service: Designed as a heavy duty washer to suspend hanger rods.

Ordering: Specify rod size, thickness, length and width, and figure number.

Notes: Other sizes and dimensions available on request.

PLATE SIZE D x C x C	WEIGHT EACH (lbs) LENGTH					
	3/8	1/2	5/8	3/4	7/8	1
1/4 x 2 x 2	0.26	0.26	—	—		
1/4 x 3 x 3	0.64	0.64	0.64	0.64	0.63	0.63
1/4 x 4 x 4	1.15	1.15	1.15	1.10	1.10	1.06
3/8 x 2 x 2	1.72	1.72	1.72	1.71	1.70	1.70

FIG. 77
ANCHOR BOLT



Material: Carbon steel, also available in 304 and 316 stainless steel.

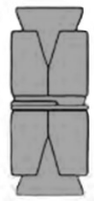
Finish: Plain, Electro-galvanized or painted.

Service: Designed to be embedded in concrete to provide a means to fasten devices to concrete surfaces.

Ordering: Specify rod size (A): 3/8", 1/2", 5/8" or 3/4", length (L): 8", 10", 12" or 14", thread length (T), figure number and finish.

Notes: "G" dimension is 2 inches unless specified otherwise. Left hand thread can be furnished.

FIG. 79
DOUBLE EXPANSION SHIELDS



Material: Carbon steel.

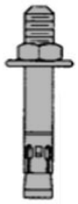
Finish: Electro-galvanized.

Service: Can be used for fastening into rock, concrete, brick etc. Eliminates high stress points detrimental in fastening into materials of medium hardness, expands fully and has high gripping power. Ideal for sheer loads or where bolt is subject to side pressure or vibration. Does not fracture, and permits fastening at any length.

Ordering: Specify bolt or rod size and figure number.

CAT. NO.	INTERNAL DIAMETER	HOLE SIZE	ANCHOR LENGTH	3000 PSI			WEIGHT PER 100 (lbs)
				TENSILE STRENGTH	SHEAR STRENGTH	BOX/CTN. QUANTITY	
NFC 4015	1/4	1/2	1	1,850 LBS	2,780 LBS	100/1000	4.0
NFC 4020	5/16	5/8	1 1/4	2,000 LBS	3,600 LBS	50/500	12.0
NFC 4025	3/8	3/4	1 1/2	3,900 LBS	4,485 LBS	50/500	14.0
NFC 4030	1/2	7/8	2	4,600 LBS	9,300 LBS	25/250	18.0
NFC 4035	5/8	1	2 1/4	5,950 LBS	13,250 LBS	25/125	25.0
NFC 4040	3/4	1 1/4	2 7/8	9,350 LBS	16,200 LBS	10/100	54.0

FIG. 80
WEDGE ANCHOR



Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Electro-galvanized.
Service:	Designed to be driven into a pre-drilled hole. Tightening nut sets anchor.
Ordering:	Specify rod size and length.

SIZE	MIN DEPTH	THREAD LENGTH	WEIGHT EACH (lbs)
1/4 x 1 3/4	1 1/8	3/4	0.032
1/4 x 2 1/4		7/8	0.037
1/4 x 3			0.52
3/8 x 2 1/4	1 3/4	1 1/8	0.87
3/8 x 2 3/4			0.105
3/8 x 3			0.110
3/8 x 3 1/2			0.125
3/8 x 3 3/4			0.130
3/8 x 5			0.172
1/2 x 2 3/4	2 1/4	1 1/4	0.180
1/2 x 3 3/4			0.240
1/2 x 4 1/2			0.300
1/2 x 5 1/2			0.340
1/2 x 7			0.440
5/8 x 3 1/2	2 7/8	1 5/8	0.400
5/8 x 4 1/2			0.540
5/8 x 5			0.570
5/8 x 6			0.640

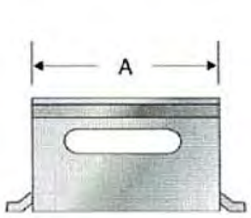
Larger sizes available. Drill size is anchor size.

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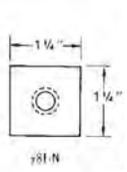
ATLAS ANCHOR

Manufactured in the USA

FIG. 81
CONCRETE INSERT
FIG. 81N
CONCRETE INSERT NUT







Material: Carbon steel.

Finish: Plain, electro-galvanized or painted.

Service: Heavy gauge insert box is nailed to concrete form. When concrete has set, knock out plug can be removed and insert nut installed. Side openings accommodate up to 1/2" reinforcing rods.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 19), A-A-1192A (Type# 18), and Manufacturers' Standardization Society MSS SP-58 (Type# 18) and SP-69 (Type# 18).

Ordering: Specify figure number and finish. For insert nuts specify figure number, finish and rod size.

SIZE A	WEIGHT EACH (lbs)		MAX REC LOAD (lbs)
	INSERT (FIG# 81)	NUT (FIG# 81N)	
3/8-16	0.61	0.12	610
1/2-13			800
5/8-11		0.10	800
3/4-10			800

FIG. 83
SPRING WING TOGGLE AND BOLT



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Electro-galvanized.

Service: Designed as a fastener for hollow walls.

Ordering: Specify size and figure number.

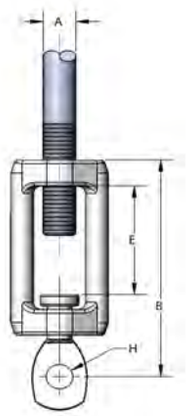
SIZE	WEIGHT EACH (lbs)
1/4-3	0.06
3/8-4	0.18

FIG. 84
SPRING WING TOGGLE HEAD ONLY



Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Electro-galvanized.
Service:	Designed as a heavy duty washer to suspend hanger rods.
Ordering:	Designed to be used with threaded rod in hollow walls.
Notes:	Specify size (1/4" or 3/8") and figure number.

FIG. 114
TURNBUCKLE ADJUSTER



Material:	Malleable iron.
Finish:	Plain, copper plated.
Service:	Designed to provide vertical rod adjustment with split ring hangers.
Approvals:	Complies with Federal Specification WW-H-171-E (Type# 15), A-A-1192 A (Type# 15) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 15).
Ordering:	Specify rod size and figure number.
Notes:	**Available domestic**

SIZE A	PIPE SIZE	B	E	H	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16	1/2 to 2	4.300	2.000	0.410	0.30	610
1/2-13	2 1/2 to 3 1/2	4.300	2.000	0.410	0.28	610

FIG. 320
(DOMESTIC) & 320I TURNBUCKLE





Manufactured
in the USA
Excluding 320I

Material: Forged steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, hot-dip galvanized.

Service: Hanger rod connector, tapped right hand x left hand thread to provide up to 6 inches of adjustment. Normally tapped for UNC-2A thread (standard).

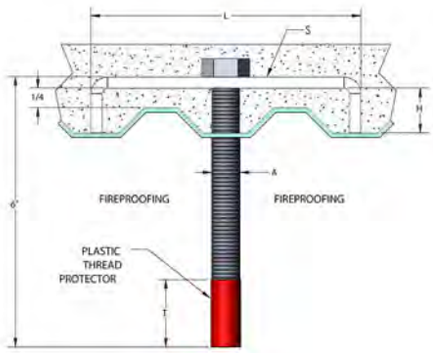
Approvals: Complies with Federal Specification WW-H-171-E (Type# 13), A-A-1192A (Type# 13) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 13).

Ordering: Specify size, figure number and finish.

Notes: When figure 320I is supplied hot-dip galvanized, it is not tapped oversize.

SIZE A	WGT EACH (lbs)	MAX REC LOAD (lbs)	
		650°F	700°F
3/8-16	0.42	610	540
1/2-13	0.65	1130	1010
5/8-11	0.98	1810	1610
3/4-10	1.50	2710	2420
7/8-11	1.90	3770	3360
1-8	2.60	4960	4420
1 1/8-7	4.20	6230	5560
1 1/4-7	4.50	8000	7140
1 1/2-6	6.40	11630	10370

FIG. 685
METAL DECK ANCHOR BOLT





Manufactured
in the USA

Material: Carbon steel.

Finish: Plain, electro-galvanized, or painted.

Service: Designed to be used on metal deck concrete forms to provide attachment points for hanger rods.
Furnished with "SEEL-PEEL" plastic thread protection.

Ordering: Specify rod size, figure number and finish. Also specify dimensions L and H.

SIZE NO.	A	H	STOCK SIZE "S"	T	L	WGT EACH (lbs)	MAX REC LOAD (lbs)
1	3/8	SPECIFY	1 1/4 x 1/4	1	SPECIFY	0.80	610
2	1/2	SPECIFY	1 1/2 x 1/4	1 1/4	SPECIFY	0.99	1130
3	5/8	SPECIFY	1 1/2 x 1/4	1 1/2	SPECIFY	1.60	1810
4	3/4	SPECIFY	1 1/2 x 1/4	1 3/4	SPECIFY	2.25	2710
5	7/8	SPECIFY	2 x 1/4	2	SPECIFY	3.10	3770
6	1	SPECIFY	2 x 1/4	2 1/4	SPECIFY	3.59	4960

FIG. EZ18
EZ ANCHOR KIT



Kit Contains:
(50) EZ Anchors
(50) 8x1" Combo Pan Sheet Metal Screws

FIG. PAK10
10-12 PLASTIC ANCHOR KIT



Kit Contains:
(100) 10-12 Conical Plastic Anchors
(100) #10x1" Combo Pan Sheet Metal Screws
(1) 1/4" Carbide Bit in a Plastic Kit Box

Hole Size	Weight (lbs) per Kit
1/4"	1.25

FIG. PAK14
14-16 PLASTIC ANCHOR KIT



Kit Contains:
(50) 14-16 Conical Plastic Anchors
(50) #14x1-1/4" Combo Pan Sheet Metal Screws
(1) 5/16" Carbide Bit in a Plastic Kit Box

Hole Size	Weight (lbs) per Kit
5/16"	1.15

FIG. LSA516
LAG SHIELD (SHORT OR LONG)



Material: Zamac Alloy

ITEM NAME	ANCHOR SIZE	Anchor Length	HOLE SIZE
1/4" Short Lag Shield	1/4"	1"	1/2"
1/4" Long Lag Shield	1/4"	1-1/2"	1/2"
5/16" Short Lag Shield	5/16"	1-1/4"	1/2"
5/16" Long Lag Shield	5/16"	1-3/4"	1/2"
3/8" Short Lag Shield	3/8"	1-3/4"	5/8"
3/8" Long Lag Shield	3/8"	2-1/2"	5/8"
1/2" Short Lag Shield	1/2"	2"	3/4"
1/2" Long Lag Shield	1/2"	3"	3/4"
5/8" Short Lag Shield	5/8"	2"	7/8"
5/8" Long Lag Shield	5/8"	3-1/2"	7/8"
3/4" Short Lag Shield	3/4"	2"	1"
3/4" Long Lag Shield	3/4"	3-1/2"	1"

FIG. BI
BANG-IT CONCRETE INSERT

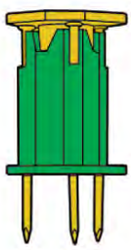


Service: Designed for installation in and through composite steel deck used to support newly poured concrete floors or roof slabs.

Approvals: Complies with Underwriters Laboratories (UL Listed) Aslo complies with FM Approvals (Factory Mutual) International Code Council, Evaluation Service (ICC-ES), ESR-3657 for concrete. Approved for seismic and wind loading (all diameters) Tested in accordance with ASTM E 488 and ICC-ES AC446 for use in concrete under the design provisions of ACI 318

SIZE	COLOR CODE	PRE-DRILLED HOLE	STANDARD BOX
1/4"	BROWN	13/16" or 7/8"	200
3/8"	GREEN	13/16" or 7/8"	200
1/2"	YELLOW	13/16" or 7/8"	200
5/8"	RED	1-3/16" or 1-1/4"	150
3/4"	PURPLE	1-3/16" or 1-1/4"	150

FIG. WK
WOOD KNOCKER INSERT



Service: Installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.

Approvals: Complies with Underwriters Laboratories (UL Listed) Aslo complies with FM Approvals (Factory Mutual) International Code Council, Evaluation Service (ICC-ES), ESR-3657 for concrete. Approved for seismic and wind loading (all diameters) Tested in accordance with ASTM E 488 and ICC-ES AC446 for use in concrete under the design provisions of ACI 318

SIZE	COLOR CODE	STANDARD BOX
1/4"	BROWN	100
3/8"	GREEN	100
1/2"	YELLOW	100
5/8"	RED	50
3/4"	PURPLE	50

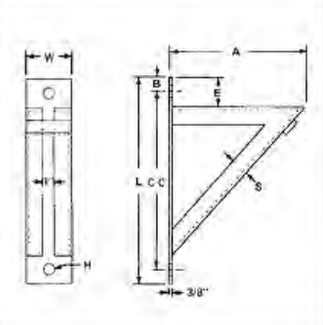
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ATLAS ANCHOR

Manufactured in the USA

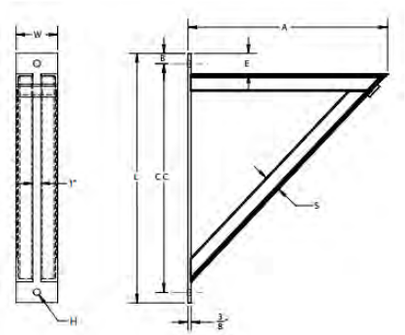
FIG. 800
Light Welded Bracket



Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain, electro-galvanized, hot-dip galvanized or painted.
Service:	Recommended for the support of pipe loads up to 750 lbs Constructed of facing angle iron with 1" space. The bracket provides maximum lateral adjustment when carrying or suspending pipe.
Approvals:	Complies with Federal Specification WW-H-171-E (Type# 33), and Manufacturers' Standardization Society MSS SP 58 (Type#31).
Ordering:	Specify size number, figure number and finish.
Notes:	Stainless steel dimensions may change due to availability of stainless steel angle.

Size No.	C-C	A	E	H	B	L	Angle Size S	W	Wgt Each (lbs)
0	11 1/2	9	2	13/16	3/4	13	1 x 1 x 3/16	3	6.900
1	15 1/2	13	2	13/16	3/4	17	1 x 1 x 3/16	3	10.11
2	21 1/2	19	2	13/16	3/4	23	1 x 1 x 3/16	3	13.70

FIG. 801
MEDIUM WELDED BRACKET



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, hot-dip galvanized or painted.

Service: Recommended for the support of pipe loads up to 1500 lbs Constructed of facing angle iron with 1" space. The bracket provides maximum lateral adjustment when carrying or suspending pipe.

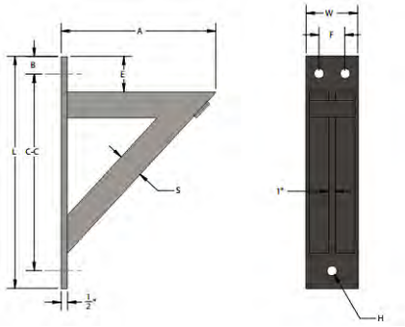
Approvals: Complies with Federal Specification WW-H-171-E (Type# 33), A-A-1192A (Type# 32) and Manufacturers' Standardization Society MSS SP 58 and SP 69 (Type#32).

Ordering: Specify size number, figure number and finish.

Manufactured in the USA

SIZE NO.	C-C	A	E	H	B	L	ANGLE SIZE S	W	WGT EACH (lbs)
1	15 1/2	12	2 1/2	13/16	1 1/4	18	1 1/2 x 1 1/2 x 3/16	4	16.10
2	21 1/2	18	2 1/2	13/16	1 1/4	24	1 3/4 x 1 3/4 x 3/16	4 1/2	26.00
3	27 1/2	24	2 1/2	13/16	1 1/4	30	2 x 2 x 1/4	5	45.00

FIG. 802
HEAVY WELDED BRACKET



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, hot-dip galvanized or painted.

Service: Recommended for the support of pipe loads up to 3000 lbs Constructed of facing angle iron with 1" space. The bracket provides maximum lateral adjustment when carrying or suspending pipe.

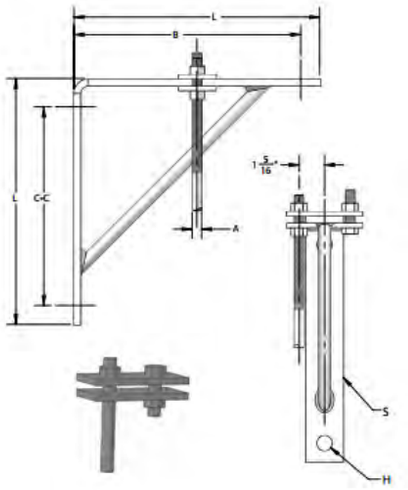
Approvals: Complies with Federal Specification WW-H-171-E (Type# 34), A-A-1192A (Type# 33) and Manufacturers' Standardization Society MSS SP 58 and SP 69 (Type# 33).

Ordering: Specify size number, figure number and finish.

Manufactured in the USA

SIZE NO.	C-C	A	F	E	H	B	L	ANGLE SIZE S	W	WGT EACH (lbs)
1	15 1/4	12	ONE HOLE	2 3/4	13/16	1 1/2	18	2 x 1 1/2 x 1/4	4	25.00
2	21 3/8	18	2 3/4	2 3/4	15/16	1 3/8	24	2 x 2 x 1/4	5	38.00
3	27 1/2	24	2 1/2	2 3/4	1 1/16	1 1/4	30	2 1/2 x 2 x 5/16	5	69.00
4	33 1/4	30	2 1/2	3	1 1/16	1 1/2	36	2 1/2 x 2 x 5/16	5	82.10
5	39	36	3 1/2	3	1 1/16	1 1/2	42	3 1/2 x 2 1/2 x 3/8	6	130.00
6	46	42	3 1/2	3 1/2	1 1/16	2	50	3 1/2 x 2 1/2 x 3/8	6	155.00

FIG. 820 & 820C
LIGHT WELDED STEEL BRACKET & CLIP





Manufactured in the USA

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, hot-dip galvanized or painted.

Service: Recommended for the suspension of hanger rod for support of light loads up to 750 lbs. Rod can be suspended at any point along the length of the bracket, thus providing horizontal adjustment, using figure #820C clip which consists of two steel plates joined by a bolt and nut in one end.

Approvals: Fig. 820 complies with Federal Specification WW-H-171-E (Type# 32), A-A-1192A (Type# 31) and Manufacturers' Standardization Society MSS SP 58 and SP 69 (Type# 31).

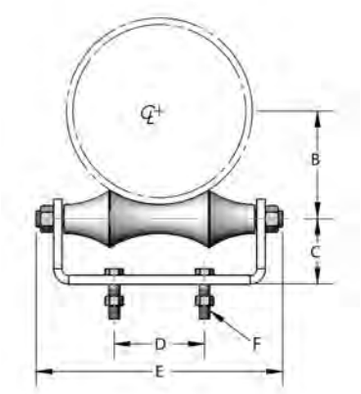
Ordering: Specify size number, figure number and finish.

Notes: Piping suspended from FIG. 820C clip shall not exceed 3 1/2" in diameter. Side clip (FIG. 820C) to be ordered separately.

FIG. 820						
BRACKET SIZE	B	C-C	HOLES H	L	STOCK SIZE S	WGT EACH (lbs)
1	8	6 1/2	13/16	9	2 X 3/8	4.20
2	12	10 1/2	13/16	13		6.50
3	18	16 1/2	13/16	19		9.40

FIG. 820C			
CLIP NUMBER	PIPE SIZE	ROD SIZE A	WGT EACH (lbs)
1	3/4 to 2	3/8	0.80
2	2 1/2 to 3 1/2	1/2	1.24

FIG. 275
ROLLER CHAIR



Material: Carbon steel chair and axle with cast iron roller. Carbon steel chain and Axle also available in stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed for the support of pipe where longitudinal movement may occur due to expansion and contraction, and vertical adjustment is not necessary. May be bolted or welded to supporting member.

Ordering: Specify roller size, figure number and finish. Please remember to consider insulation thickness when sizing rollers.

Notes: Also available in 304 stainless steel (275SS).

Available domestic

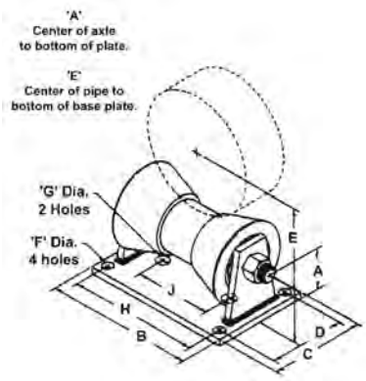
HANGER SIZE	MATERIAL SIZE	AXLE SIZE	B	C	D	E	F	WGT EACH (lbs)	MAX REC LOAD (lbs)
2	4ga x 1.25	3/8	19/16	1 3/8	1 1/4	4 1/4	3/8	0.94	390
2 1/2	4ga x 1.25	1/2	1 7/8	1 5/8	1 1/4	4 7/8	3/8	1.18	390
3	4ga x 1.25	1/2	2 1/8	1 3/4	2	5 11/32	3/8	1.32	390
3 1/2	3/8 x 1.500	1/2	2 1/2	2	2 1/2	6 11/32	3/8	2.58	390
4	3/8 x 1.500	1/2	2 13/16	2 5/16	2	7 11/32	1/2	2.94	950
5	3/8 x 1.500	5/8	3 3/8	2 1/2	3	8 1/4	1/2	3.64	950
6	3/8 x 2.00	3/4	3 15/16	2 3/4	3 1/8	9 1/2	1/2	5.72	950
7	3/8 x 2.00	3/4	4 1/2	2 13/16	3 3/8	10	1/2	6.98	1350
8	3/8 x 2.00	7/8	5 1/8	3	3 3/8	12 1/4	5/8	8.16	1350
10	1/2 x 2	7/8	6 3/8	3 5/8	5	14 1/2	5/8	11.96	1730
12	1/2 x 2	7/8	7 1/2	4 1/8	6	16 1/4	5/8	15.86	2400
14	1/2 x 2.50	1 1/8	8 3/8	4 11/16	6 1/2	18	3/4	21.58	3130
16	1/2 x 3	1 1/4	9 3/8	5 3/8	8 1/4	21	3/4	34.50	3970
18	1/2 x 3	1 1/4	10 7/16	6	9 1/4	22 7/8	3/4	36.50	4200
20	1/2 x 3	1 1/4	11 5/8	6 1/2	10 1/4	25 1/4	3/4	45.00	4550
24	5/8 x 4	1 1/2	14	7 7/8	12 1/4	30	7/8	77.50	6160

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ATLAS ANCHOR

FIG. 279S
PIPE ROLL STAND, CARBON STEEL
FIG. 279SS
PIPE ROLLER STAND, 316 STAINLESS STEEL



Material: Carbon steel chair and axle with cast iron roller.

Finish: Plain, galvanized, electro-galvanized, or painted.

Service: Designed for support of pipe where longitudinal movement may occur due to expansion and contraction where vertical adjustment is not necessary.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 45), A-A-1192A (Type# 44) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 44).

Ordering: Specify roller size, figure number and finish. Please remember to consider insulation thickness when sizing rollers.

Notes: Stainless steel roller chairs are recommended for applications where protection from corrosive environments is needed.

Available domestic

PIPE SIZE	A	B	C	D	E	DIA. F	DIA. G	H	J	WGT EACH (lbs)	MAX REC LOAD (lbs
2	1 3/4	8 3/8	6	4	3 11/16	9/16	1	3 3/8	6 3/8	5.08	390
2 1/2	1 3/4	8 3/8	6	4	3 15/16	9/16	1	3 3/8	6 3/8	5.08	390
3	1 3/4	8 3/8	6	4	4 1/4	9/16	1	3 3/8	6 3/8	5.08	390
3 1/2	1 3/4	8 3/8	6	4	4 1/2	9/16	1	3 3/8	6 3/8	5.08	390
4	2	9 7/8	6	4 1/4	5	9/16	1	4 3/4	7 7/8	6.31	650
5	2	9 7/8	6	4 1/4	5 9/16	9/16	1	4 3/4	7 7/8	6.31	950
6	2	9 7/8	6	4 1/4	6 1/16	9/16	1	4 3/4	7 7/8	6.31	950
8	3 3/8	8 5/8	8	5	8 13/16	11/16	1	7	4	13.65	2100
10	3 3/8	8 5/8	8	5	9 7/8	11/16	1	7	4	13.65	2100
12	3 7/8	11	8	6	11 7/16	13/16	1	9	5 3/4	21.00	3075
14	3 7/8	11	8	6	12 1/16	13/16	1	9	5 3/4	21.00	3075
16	4 1/4	12 3/8	10	6 1/2	13 5/8	13/16	1	10 3/8	6 3/4	34.23	4980
18	4 1/4	12 3/8	10	6 1/2	14 11/16	13/16	1	10 3/8	6 3/4	34.23	4980
20	4 1/4	12 3/8	10	6 1/2	15 11/16	13/16	1	10 3/8	6 3/4	34.23	4980
24	4 3/8	13 1/2	10	6 1/2	17 11/16	13/16	1	11 1/2	7 1/2	40.00	6100
30	5 1/8	17	10	7 3/4	21 3/4	1 1/16	1	14 1/4	10	71.32	7500
36	5 3/4	20	12	9	25 3/4	1 3/8	1	17	12	147	12000
42	5 3/4	20	12	9	28 7/8	1 3/8	1	17	12	147	12000

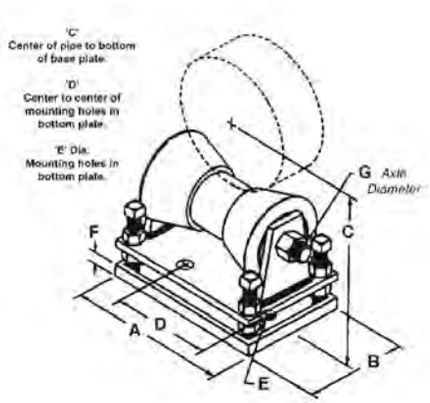
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ATLAS ANCHOR

FIG. 280S ADJUSTABLE PIPE ROLL STAND, CARBON STEEL

FIG. 280SS ADJUSTABLE PIPE ROLLER STAND, 316 STAINLESS STEEL



Material: Carbon steel chair base plate and axle with cast iron roller.

Finish: Plain, galvanized or painted.

Service: Designed for the support of pipe where longitudinal movement may occur due to expansion and contraction, and where vertical adjustment is necessary.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 47), A-A-1192A (Type# 46) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 46).

Ordering: Specify roller size, figure number and finish. Please remember to consider insulation thickness when sizing rollers.

Notes: *Stainless steel adjustable roller chair supports are recommended for applications where protection from corrosive environments is needed.

Available domestic

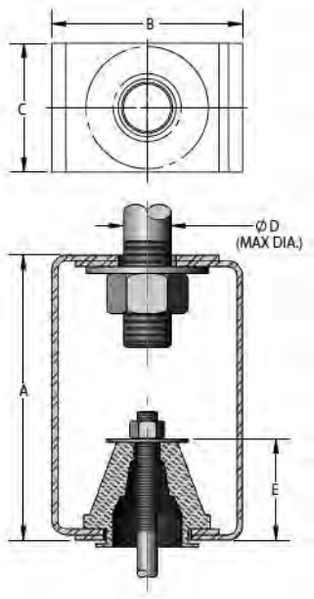
PIPE SIZE	A	B	C MIN	C MAX	D	E	F	G	WGT EACH (lbs)	MAX REC LOAD (lbs)
2	6 7/8	6	4 3/4	5 5/8	3 7/8	1	1	1/2	11.00	390
2 1/2	6 7/8	6	5	5 7/8	3 7/8	1	1	1/2	11.00	390
3	6 7/8	6	55/16	6 9/16	3 7/8	1	1	1/2	11.00	390
3 1/2	6 7/8	6	59/16	6 7/16	3 7/8	1	1	1/2	11.00	390
4	8 1/2	6	63/16	7 7/16	5 1/8	1	1	1/2	13.10	950
5	8 1/2	6	63/4	8	5 1/8	1	1	1/2	13.10	950
6	8 1/2	6	7 1/4	8 1/2	5 1/8	1	1	1/2	13.10	950
8	10 1/2	7 1/2	10 1/8	11 11/16	7 3/8	1	1	3/4	29.00	2100
10	10 1/2	7 1/2	11 3/16	12 3/4	7 3/8	1	1	3/4	29.00	2100
12	12 1/2	8 1/4	12 3/4	14 1/8	9 1/2	1	1	7/8	40.00	3075
14	12 1/2	8 1/4	13 3/8	14 3/8	9 1/	1	1	7/8	40.00	3075
16	14 5/8	10	15 3/8	17 1/4	11 1/8	1	1	1 1/8	63.84	4980
18	14 5/8	10	16 3/8	18 1/4	11 1/8	1	1	1 1/8	63.84	4980
20	14 5/8	10	17 3/8	19 1/4	11 1/8	1	1	1 1/8	63.84	4980
24	15 3/4	10	19 1/4	21 1/4	12 1/4	1	1	1 1/4	71.00	6100
30	19 1/2	10 3/4	24 7/16	26 11/16	15 3/4	1	1 1/2	1 3/4	125.28	7500

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M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 34
VIBRATION HANGER-NEOPRENE



Material:	Painted Carbon Steel Housing with Neoprene Rubber Element (34)
Service:	Designed for effective vibration isolation for piping or suspended equipment. Typical applications include fans, air handling units, piping and suspended ceilings.
Approvals:	There are no approval options for this product.
Ordering:	Specify figure number, isolator size, rod size and load.
Notes:	See hanger selection guide.

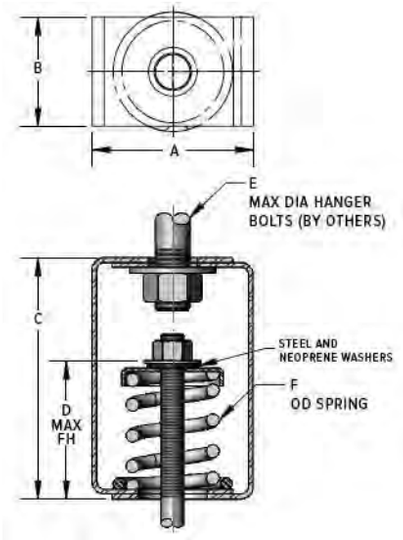
ISOLATOR SIZE	MAX REC LOAD (lbs)	DEFLECTION	DIMENSIONS				
			A	B	C	D	E
EMP - 1 - A	60	0.50	4	2-7/8	2-1/2	1/2	1-7/8
EMP - 1 - B	130	0.50	4	2-7/8	2-1/2	1/2	1-7/8
EMP - 1 - C	250	0.50	4	2-7/8	2-1/2	1/2	1-7/8
EMP - 1 - D	430	0.50	4	2-7/8	2-1/2	1/2	1-7/8
EMP - 2 - A	380	0.50	5-1/2	3-3/4	4	3/4	2-3/8
EMP - 2 - B	520	0.50	5-1/2	3-3/4	4	3/4	2-3/8
EMP - 2 - C	840	0.50	5-1/2	3-3/4	4	3/4	2-3/8
EMP - 2 - D	1070	0.50	5-1/2	3-3/4	4	3/4	2-3/8
EMP - 3 - A	750	0.50	6-1/4	4-1/4	5-3/8	1	2-3/8
EMP - 3 - B	1350	0.50	6-1/4	4-1/4	5-3/8	1	2-3/8
EMP - 3 - C	1800	0.50	6-1/4	4-1/4	5-3/8	1	2-3/8
EMP - 3 - D	3050	0.50	6-1/4	4-1/4	5-3/8	1	2-3/8

FIG. 35
VIBRATION SPRING-FLEX HANGER

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

ATLAS ANCHOR



Material: Painted Carbon Steel Housing with Steel Spring (35)

Service: Designed to isolate low frequency vibrations for piping or suspended equipment. Typical applications include fans, duct work, air handling units, piping, and suspended ceilings.

Approvals: There are no approval options for this product.

Ordering: Specify figure number, isolator size, rod size and load.

Notes: See hanger selection guide.

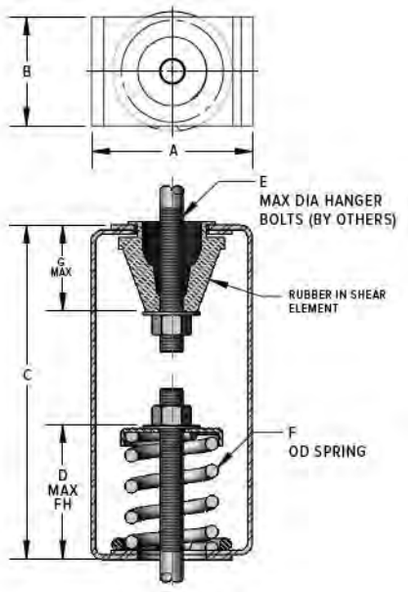
ISOLATOR SIZE	RATED LOAD LBS @ 1" DEFL	SOLID LOAD (lbs)	DIMENSIONS					
			A	B	C	D	E	F
EMP - 1 - 15	15	27	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 25	25	39	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 50	50	83	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 100	100	160	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 150	150	242	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 200	200	293	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 300	300	442	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 400	400	585	3-1/2	2-1/2	5-5/8	3-1/8	1/2	2
EMP - 1 - 500	500	782	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4
EMP - 1 - 600	600	925	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4
EMP - 1 - 800	800	1257	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4
EMP - 1 - 1000	1000	1565	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4
EMP - 1 - 1200	1200	1829	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4
EMP - 1 - 1400	1400	2131	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4
EMP - 1 - 1600	1600	2419	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4
EMP - 1 - 1800	1800	2662	4-1/2	3-1/2	10-1/8	4-5/8	1	3-1/4

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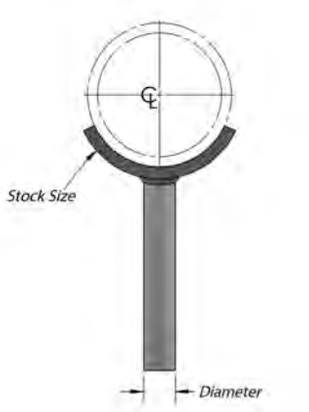
FIG. 36
VIBRATION SPRING-FLEX AND NEOPRENE HANGER



Material:	Painted Carbon Steel Housing and spring with neoprene rubber element (36)
Service:	Designed to isolate both noise and vibration for piping or suspended equipment.
Approvals:	There are no approval options for this product.
Ordering:	Specify figure number, isolator size, rod size and load.
Notes:	See hanger selection guide.

ISOLATOR SIZE	RATED LOAD LBS @ 1" DEFL	SOLID LOAD (lbs)	DIMENSIONS						
			A	B	C	D	E	F	G
EMP - 1 - 15	15	27	3-1/2	2-1/2	7-1/8	3	1/2	2	1-7/8
EMP - 1 - 25	25	39	3-1/2	2-1/2	7-1/8	3	1/2	2	1-7/8
EMP - 1 - 50	50	83	3-1/2	2-1/2	7-1/8	3	1/2	2	1-7/8
EMP - 1 - 100	100	160	3-1/2	2-1/2	7-1/8	3	1/2	2	1-7/8
EMP - 1 - 150	150	242	3-1/2	2-1/2	7-1/8	3	1/2	2	1-7/8
EMP - 1 - 200	200	293	3-1/2	2-1/2	7-1/8	3	1/2	2	1-7/8
EMP - 1 - 300	300	442	3-1/2	2-1/2	7-1/8	3	1/2	2	1-7/8
EMP - 1 - 400	400	585	3-1/2	2-1/2	7-1/8	3	1/2	2	21-7/8
EMP - 1 - 500	500	782	4-1/2	4-7/8	11	4-3/8	3-1/4	3-1/4	2-3/8
EMP - 1 - 600	600	925	4-1/2	4-7/8	11	4-3/8	3-1/4	3-1/4	2-3/8
EMP - 1 - 800	800	1257	4-1/2	4-7/8	11	4-3/8	3-1/4	3-1/4	2-3/8
EMP - 1 - 1000	1000	1565	4-1/2	4-7/8	11	4-3/8	3-1/4	3-1/4	2-3/8
EMP - 1 - 1200	1200	1829	4-1/2	4-7/8	11	4-3/8	1	3-1/4	2-3/8
EMP - 1 - 1400	1400	2131	4-1/2	4-7/8	11	4-3/8	1	3-1/4	2-3/8
EMP - 1 - 1600	1600	2419	4-1/2	4-7/8	11	4-3/8	1	3-1/4	2-3/8
EMP - 1 -1800	1800	2662	4-1/2	4-7/8	11	4-3/8	1	3-1/4	2-3/8

FIG. 420 PIPE SADDLE SUPPORT





Manufactured in the USA

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

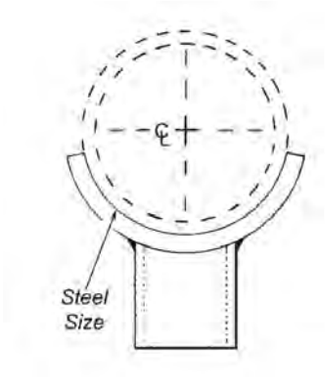
Service: Designed to be used in conjunction with a base stand to support pipe running close to the floor.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 37), A-A-1192A and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 36).

Ordering: Specify size, figure number and finish. Base stand ordered separately (requires accurate center line of pipe to floor dimension). Base stand can be ordered separately.

PIPE SIZE	STEEL SIZE	DIAMETER AND LENGTH OF STEM	WGT EACH (lbs)
2	1 1/2 x 3/8	7/8 x 6	1.57
3			1.85
4	2 x 3/8	1 x 6	2.70
5			3.14
6	2 x 1/2	1 1/4 x 6	4.90
8			5.75
10	3 x 1/2	1 1/2 x 6	9.88
12			11.40

FIG. 421
ADJUSTABLE PIPE SADDLE SUPPORT WITH THREADED COUPLING



Manufactured in the USA

Material: Carbon steel, also available in 304 and 316 stainless steel.

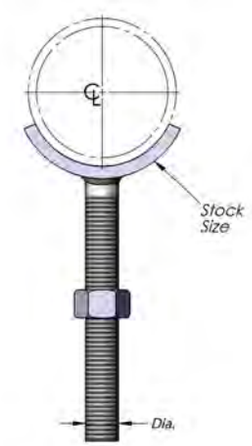
Finish: Plain, electro-galvanized or painted.

Service: Designed to be used in conjunction with a base stand to support pipe running close to the floor.

Ordering: Specify pipe size, figure number and finish. Base stand can be ordered separately (requires accurate center line of pipe to floor dimension).

PIPE SIZE	STEEL SIZE	PIPE SIZE, THREADED COUPLING	WGT EACH (lbs)
2	3/8 x 2	1 1/4	1.35
3	3/8 x 2 1/2	1 1/2	2.45
4	3/8 x 3	2	3.63
5			4.30
6	1/2 x 3 1/2	2 1/2	7.03
8			8.53
10	1/2 x 4	3	13.04
12			15.07

FIG. 422
ADJUSTABLE PIPE SUPPORT



Manufactured in the USA

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed to be used in conjunction with a base stand to support pipe running close to the floor. Threaded stud and nut provide adjustability.

PIPE SIZE	STEEL SIZE	DIAMETER AND LENGTH OF STEM	WGT EACH (lbs)
2	1 1/2 x 3/8	7/8 x 8	1.92
3			2.20
4	2 x 3/8	1 x 8	3.23
5			3.67
6	2 x 1/2	1 1/4 x 8	5.92
8			6.77
10	3 x 1/2	1 1/2 x 8	11.56
12			13.08

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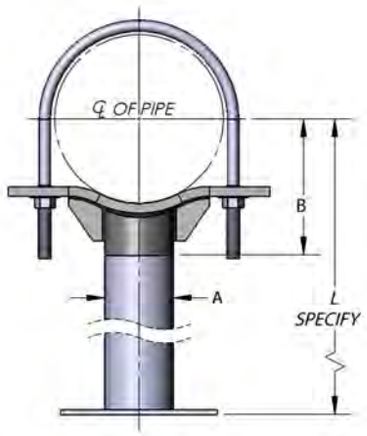
ATLAS ANCHOR

FIG. 425
PIPE SADDLE SUPPORT WITH U-BOLT

M.B.E. (Minority Business Enterprise)



Manufactured in the USA



Material: Carbon steel, saddle, support and u-bolt. Also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed to be used in conjunction with a base stand to support pipe running close to the floor. U-bolt secures pipe to saddle.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 37), A-A-1192A (Type# 36) and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 36).

Ordering: Specify size, figure number and finish. Base stand ordered separately. Requires accurate center line of pipe to floor dimension ("L") .

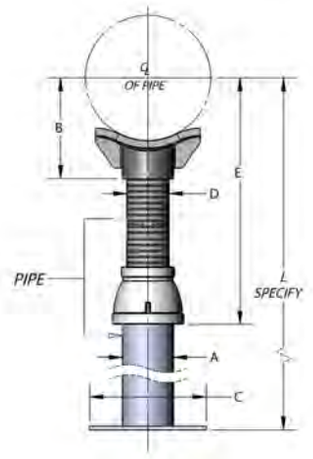
PIPE SIZE	PIPE SIZE A	B	WGT EACH (lbs)
4	3	4 3/16	10.75
5		4 13/16	12.10
6		5 7/16	12.70
8		6 15/16	21.30
10		8 7/16	25.70
12		9 15/16	31.20
14	4	10 15/16	50.00
16		12 3/8	57.00
18		13 7/8	64.00
20	6	15 3/8	113.50
24		17 15/16	137.00
30		21 15/16	174.00
36	8	24 1/2	268.00

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FIG. 426
ADJUSTABLE PIPE SADDLE SUPPORT



Material: Carbon steel saddle and nipple with special cast iron reducing coupling, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed to be used in conjunction with a base stand to support horizontal pipe. Straight cut pipe thread on nipple provides adjustability.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 39), A-A-1192A (Type# 38) and Manufacturers' Standardization Society MSS SP 58 and SP 69 (Type#38).

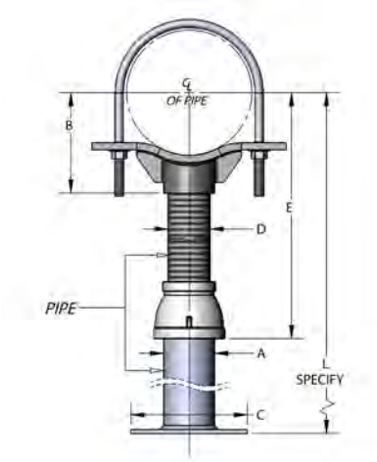
Ordering: Specify size, figure number and finish. Base stand ordered separately. Requires accurate center line of pipe to floor dimension ("L") .

Notes: Adjustable pipe saddle supports are available in stainless steel.

PIPE SIZE	PIPE SIZE A	B	C	D	DIMENSION E		WGT EACH (lbs)	
					MIN	MAX	COMPLETE	SADDLE ONLY
2 1/2	2 1/2	3 7/16	8	1 1/2	8	13	9.00	4.80
3		3 11/16			8 1/4	13 1/4	9.20	5.00
3 1/2		3 15/16			8 1/2	13 1/2	9.40	5.20
4	3	4 3/16	10	2 1/2	9 1/4	14	15.00	7.60
5		4 13/16			10	14 3/4	16.65	9.25
6		5 7/16			10 1/2	15 1/4	17.64	10.25
8		6 15/16			11 3/4	16 1/2	20.20	12.80
10		8 7/16			13 1/2	18 1/4	25.15	17.75
12		9 15/16			15	19 3/4	29.00	21.60
14	4	10 15/16		3	16 1/4	20 3/4	49.20	38.00
16		12 3/8			17 3/4	22 1/4	53.20	42.00
18	6	13 7/8	12	4	19 1/2	24	70.80	51.00
20		15 3/8			21	25 1/2	104.80	85.00
24		17 15/16			23 3/4	28 1/4	130.00	110.00
30		2 15/16			27	31 1/2	170.00	150.00
32		22 1/2			28 1/4	32 3/4	181.00	161.00
36		24 1/2			30 1/4	34 3/4	249.00	229.00

PIPE STANTIONS

FIG. 427
ADJUSTABLE PIPE SADDLE SUPPORT WITH U-BOLT



Material: Carbon steel saddle, nipple and u-bolt with special cast iron reducing coupling, also available in 304 and 316 stainless steel.

Finish: Plain, galvanized or painted.

Service: Designed to be used in conjunction with a base stand to support horizontal pipe. Straight cut pipe thread on nipple provides adjustability, u-bolt secures pipe to saddle.

Ordering: Specify size, figure number and finish. Base stand ordered separately. Requires accurate center line of pipe to floor dimension ("L").

Notes: Adjustable pipe saddle supports with u-bolts are available in stainless steel.

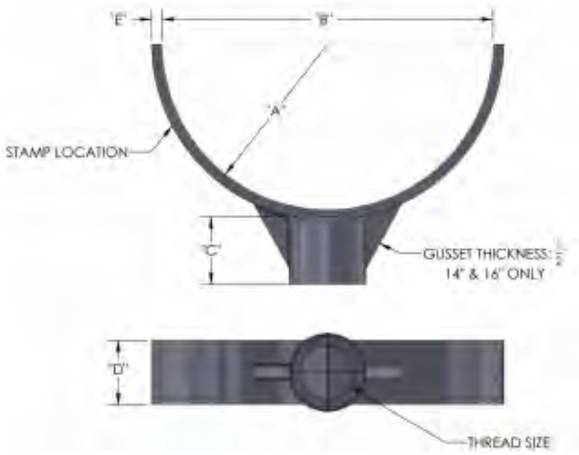
PIPE SIZE	PIPE SIZE A	B	C	D	DIMENSION E		WGT EACH	
					MIN	MAX	COMPLETE	SADDLE ONLY
2 1/2	2 1/2	3 7/16	8	1 1/2	8	13	9.00	4.80
3	2 1/2	3 11/16	8	1 1/2	8 1/4	13 1/4	9.20	5.00
3 1/2	2 1/2	3 15/16	8	1 1/2	8 1/2	13 1/2	9.40	5.20
4	3	4 3/16	10	2 1/2	9 1/4	14	15.00	7.60
5	3	4 13/16	10	2 1/2	10	14 3/4	16.65	9.25
6	3	5 7/16	10	2 1/2	10 1/2	15 1/4	17.64	10.25
8	3	6 15/16	10	2 1/2	11 3/4	16 1/2	20.20	12.80
10	3	8 7/16	10	2 1/2	13 1/2	18 1/4	25.15	17.75
12	3	9 15/16	10	2 1/2	15	19 3/4	29.00	21.60
14	4	10 15/16	10	3	16 1/4	20 3/4	49.20	38.00
16	4	12 3/8	10	3	17 3/4	22 1/4	53.20	42.00
18	6	13 7/8	12	4	19 1/2	24	70.80	51.00
20	6	15 3/8	12	4	21	25 1/2	104.80	85.00
24	6	17 15/16	12	4	23 3/4	28 1/4	130.00	110.00
30	6	21 5/16	12	4	27	31 1/2	170.00	150.00
32	6	22 1/2	12	4	28 1/4	32 3/4	181.00	161.00
36	6	24 1/2	12	4	30 1/4	34 3/4	249.00	229.00

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FIG. 428KT
ADJUSTABLE PIPE SADDLE SUPPORT, KIT

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR



Material:	Ductile iron saddle with carbon steel coupling, carbon steel nipple and base plate, cast steel reducing coupling, stainless steel set screws.
Finish:	All items listed above are hot-dip galvanized except for stainless steel set screws
Service:	Designed to support pipe horizontally. Straight cut pipe thread on nipple provides up to 4 – 1/2 inches of vertical adjustability.
Ordering:	Specify pipe size and figure number.
Notes:	Saddles accommodate ductile iron pipe and IPS. Support requires 2" schedule 40 extension pipe to be cut in the field.

*NOTE: Min. Distance of Floor to B.O.P. = 9.125"

Also available in 316 stainless steel.

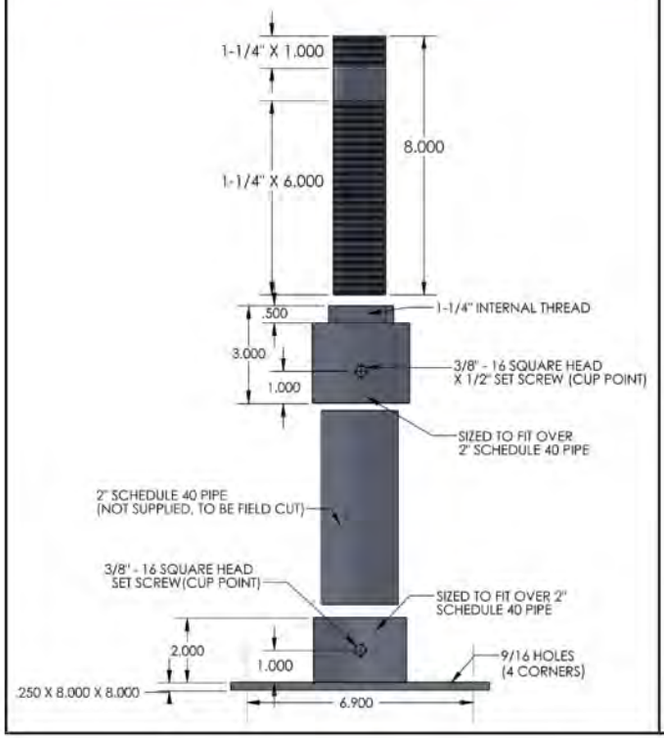
Factory System Tested to 11,000 Lbs

(Support Must Be Properly Aligned to Piping System)

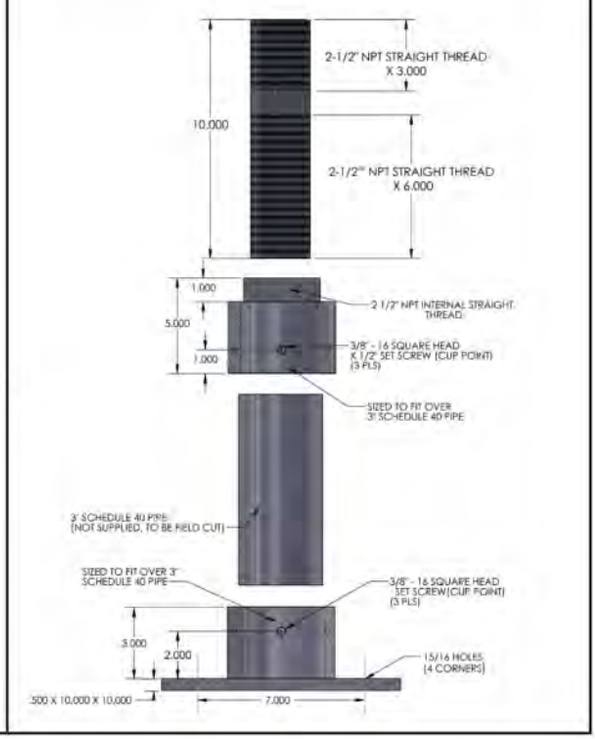
Size	A	B	C	D	E	Thread Size
2	1.750	3.500	1.500	2.000	0.375	1-1/4-7
3	2.030	4.060	1.500	2.000	0.375	1-1/4-7
4	2.450	4.900	1.500	2.000	0.375	1-1/4-7
6	3.500	7.000	1.500	2.000	0.500	1-1/4-7
8	4.580	9.160	1.500	2.000	0.500	1-1/4-7
10	5.600	11.200	1.500	2.000	0.500	1-1/4-7
12	6.650	13.300	1.500	2.000	0.500	1-1/4-7
14	7.750	15.500	3.000	3.000	0.500	2-1/2-4
16	8.800	17.600	3.000	3.000	0.500	2-1/2-4

428 KIT SPECIFICATIONS

SIZES 3 - 12

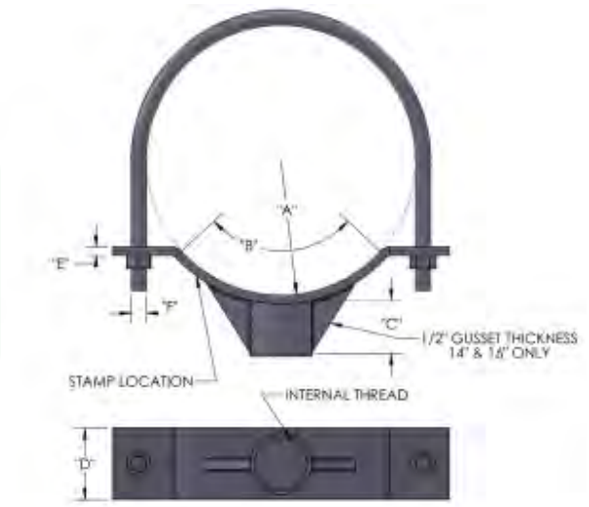


SIZES 14 AND 16



PIPE STANTIONS

FIG. 429KT
ADJUSTABLE PIPE SADDLE SUPPORT, with U-BOLT, KIT



*NOTE: Min. Distance of Floor to B.O.P. = 9.125"

Also available in 316 stainless steel.

Factory System Tested to 11,000 Lbs

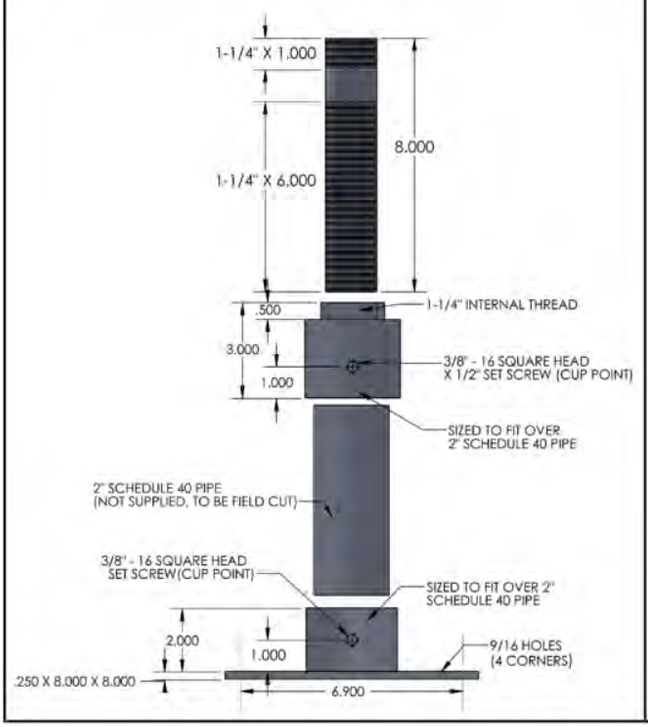
(Support Must Be Properly Aligned to Piping System)

Material:	Ductile iron saddle with carbon steel coupling, carbon steel nipple and base plate, carbon steel U-Bolts and nuts, cast steel reducing coupling, stainless steel set screws.
Finish:	All items listed above are hot-dip galvanized except for stainless steel set screws
Service:	Designed to support pipe horizontally. Straight cut pipe thread on nipple provides up to 4 – $^{1}/_{2}$ inches of vertical adjustability.
Ordering:	Specify pipe size and figure number.
Notes:	Saddles accommodate ductile iron pipe and IPS. Support requires 2" schedule 40 extension pipe to be cut in the field.

Size	A	B	C	D	E	F	Thread Size
3	2.030	130°	1.500	2.000	0.375	1/2-3	1-1/4-7
4	2.450	130°	1.500	2.000	0.375	1/2-3	1-1/4-7
6	3.500	130°	1.500	2.000	0.500	5/8-11	1-1/4-7
8	4.580	130°	1.500	2.000	0.500	5/8-11	1-1/4-7
10	5.600	130°	1.500	2.000	0.500	5/8-11	1-1/4-7
12	6.650	130°	1.500	2.000	0.500	5/8-11	1-1/4-7
14	7.750	130°	3.000	3.000	0.500	7/8-9	2-1/2-4
16	8.800	130°	3.000	4.000	0.500	7/8-9	2-1/2-4

428 KIT SPECIFICATIONS

SIZES 3 - 12



SIZES 14 AND 16

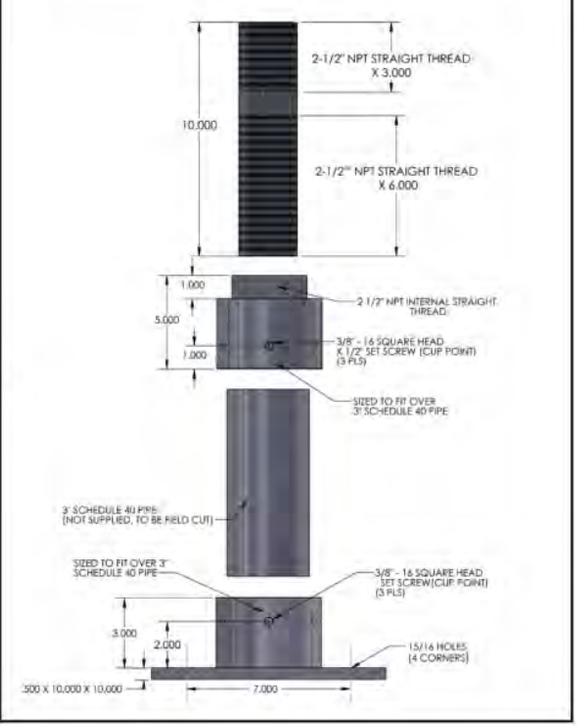
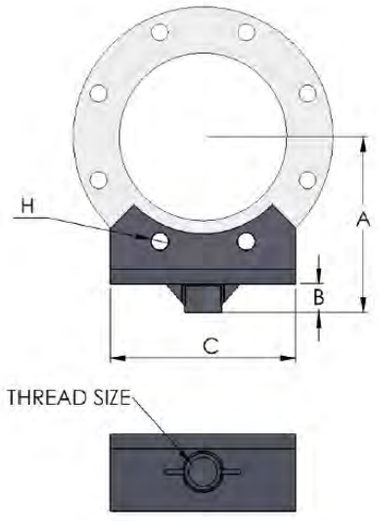


FIG. 431KT
ADJUSTABLE BOLT ON FLANGE SUPPORT KIT

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR



Material:	Hot-Dip Galvanized Carbon Steel Saddle with Threaded Coupling, 1-1/4" x 8" Straight Tapped Nipple, 3" Long Steel 1-1/4" x 2" Reducing Coupling, (2) Stainless Steel Set Screws, 8" x 8" Steel Base Plate, 11 Step Installation Guide
Finish:	All items listed above are hot-dip galvanized except for stainless steel set screws
Service:	Designed to support pipe flange horizontally. Straight cut pipe thread on nipple provides up to 4-1/2 inches of vertical adjustability. Empire Industries' FIG. 431KT is designed to connect to back flow devices, water meters and to accomodate class 125 flange installation devices. The Fig. 431KT provides an easy to install pipe support system.
Ordering:	Specify pipe size and figure number.
Notes:	Support requires 2" schedule 40 extension pipe to be cut in the field.

Factory System Tested to 11,000 Lbs

(Support Must Be Properly Aligned to Piping System)

Size	A	B	C	H	Thread Size
3	6-1/2	1-1/2	6-1/2	13/16	1-1/4-7
4	6-7/8	1-1/2	6	13/16	1-1/4-7
6	7-7/8	1-1/2	8	15/16	1-1/4-7
8	9-1/8	1-1/2	9-1/8	15/16	1-1/4-7
10	10-5/16	1-1/2	8	1-1/16	1-1/4-7
12	11-13/16	1-1/2	9-1/2	1-1/16	1-1/4-7

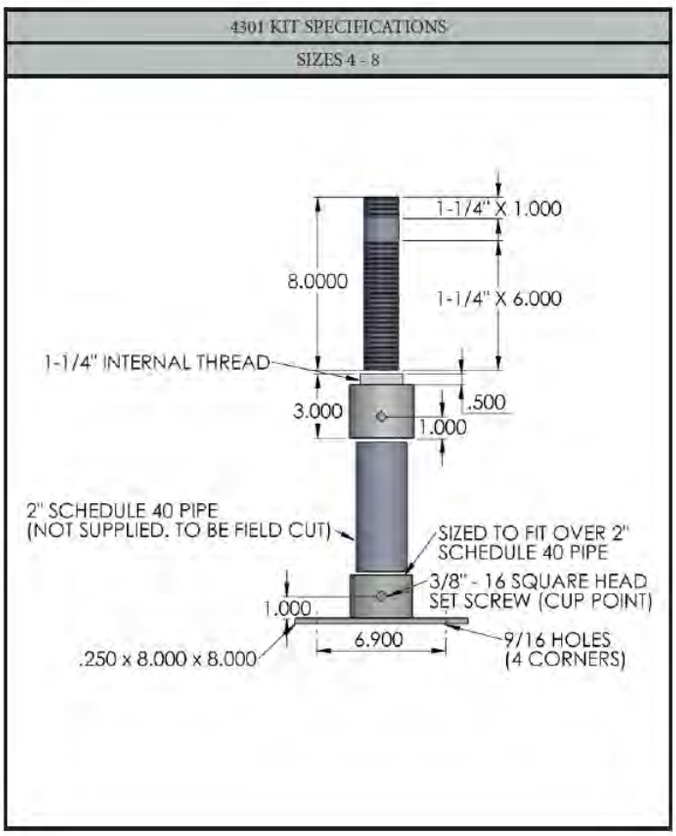
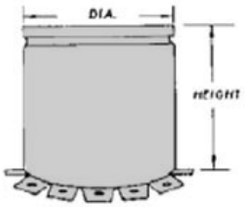


FIG. 900
NAILING SLEEVE

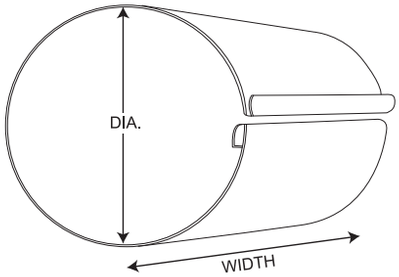


Material:	Galvanized steel, also available in 304 and 316 stainless steel.
Finish:	Galvanized.
Service:	When attached to roof decking, sleeve provides a channel for piping, eliminating the need to core drill. Optional tabs facilitate fastening to deck. Optional covers seal out wet cement during pour and safely cover sleeve until pipe installation.
Ordering:	Specify diameter, height, and figure number, with or without tabs. Covers must be ordered separately.



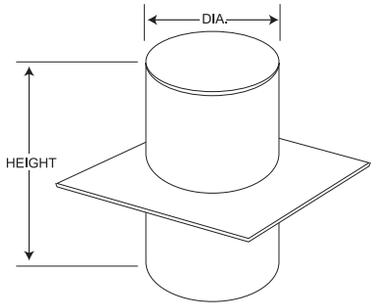
Manufactured
in the USA

FIG. 901
SPLIT SLEEVE



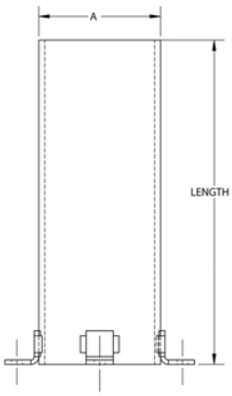
Material:	Carbonsteel; galvanized, sheet metal
Service:	Split sleeves are furnished in all diameters and lengths
Ordering:	Specify Part No., diameter.
Note:	24 GA. Mat'l is the norm. Other gauges available.

FIG. 902
Q DECK SLEEVE



Material:	Carbonsteel; galvanized, sheet metal
Service:	Deck sleeves are furnished in all diameters and heights
Ordering:	Specify Part No., diameter and height.

FIG. 910
PIPE SLEEVE WITH WELDED LUGS

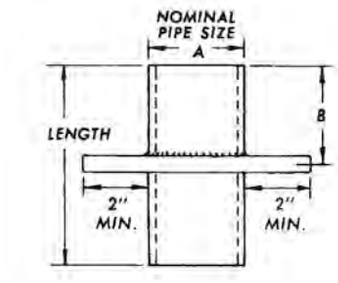




Manufactured in the USA

Material:	Steel pipe, also available in 304 and 316 stainless steel.
Finish:	Plain, electro-galvanized or painted.
Service:	When attached to concrete forms, sleeve provides smooth sealable channel for piping, eliminating the need to core drill. Nailing lugs facilitate fastening to forms.
Ordering:	Specify pipe size (A dimension), length, figure number and finish.

FIG. 915
WATERPROOF SLEEVE

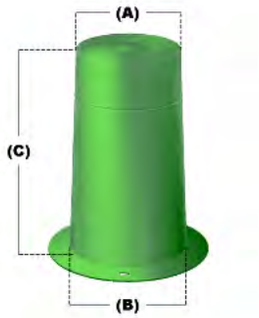




Manufactured in the USA

Material:	Steel pipe and 1/4" steel plate (water stop). Also available in 304 and 316 stainless steel.
Finish:	Plain, electro-galvanized or painted.
Service:	When installed in concrete forms, sleeve provides smooth, sealable channel for piping. Water stop prevents water migration around outside of sleeve.
Ordering:	Specify nominal pipe size (A dimension), overall length, B dimension, figure number and finish.

FIG. PCS
PLASTIC CRETE-SLEEVES





Material: Crete-Sleeve® Plastic Hole Forms are injection molded with durable, high-density polyethylene (HDPE)

Color: Green

Service: Crete-Sleeve® Plastic Hole Forms include the following features:

- They can be used horizontally and vertically for both wall and floor installations.
- They are manufactured with a flange that allows you to quickly install our product with nails, screws, staples or wires.
- Crete-Sleeve® is easily removable because concrete will not stick to high density polyethylene.
- They can be telescoped or cut for any slab thickness by cutting off the flange and stacking them to the desired height so both pieces can be removed once the concrete has cured.
- They are 100% recyclable.
- They are available in 9 sizes to meet any construction need.

Notes: Crete-Sleeve® Plastic Hole Forms come in 9 different sizes, making them versatile enough to meet any construction need. Crete-Sleeves are adjustable to any application. For slabs deeper than 8 3/4" , simply telescope two or more Crete-Sleeves together. For slabs shallower than 8 ¾" or for slabs that have a smooth finish, cut off the tops of Crete-Sleeves and push them through the bottom halves.



Top Hole Diameter A	Base Hole Diameter B	Overall Length C	Atlas Part Number	Hole Size
1-1/2"	1-3/4"	8-3/4"	PCS112	1-1/2"
2"	2-13/32"	8-3/4"	PCS2	2"
3"	3-13/32"	8-3/4"	PCS3	3"
4"	4-13/32"	8-3/4"	PCS4	4"
5"	5-13/32"	8-3/4"	PCS5	5"
6"	6-13/32"	8-3/4"	PCS6	6"
8"	8-7/16"	8-3/4"	PCS8	8"
10"	10-7/16"	9-1/8"	PCS10	10"
12"	12-7/16"	9-1/8"	PCS12	12"

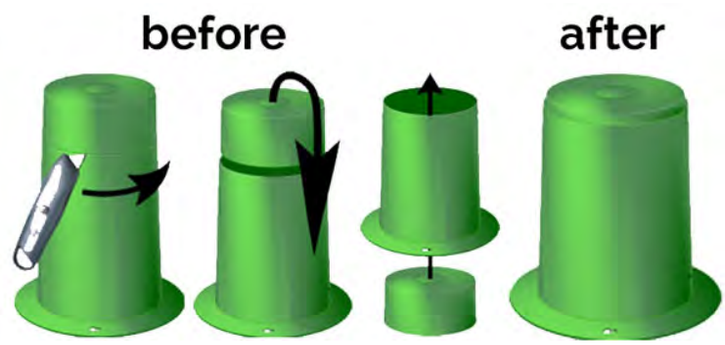
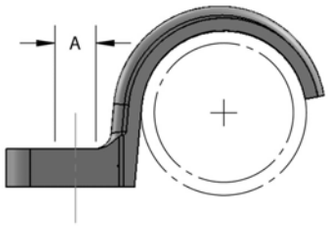


FIG. 126
ONE HOLE CLAMP



Material: Malleable iron

Finish: Electro-galvanized.

Service: Designed for the support of conduit, cable or pipe on walls or sides of beams. Not recommended for horizontal use on ceilings or bottom of beams.

Ordering: Specify pipe size and figure number.

PIPE SIZE	PIPE/CABLE/CONDUIT OD	HOLE DIAM A	BOLT/SCREW SIZE	WEIGHT EACH (lbs)
1/2	0.840	5/16	1/4	0.04
3/4	1.050	5/16	1/4	0.05
1	1.315	5/16	1/4	0.09
1 1/4	1.660	3/8	1/4	0.12
1 1/2	1.900	7/16	3/8	0.16
2	2.375	7/16	3/8	0.25
2 1/2	2.875	11/16	5/8	0.49
3	3.500	11/16	5/8	0.82
4	4.500	3/4	5/8	1.30

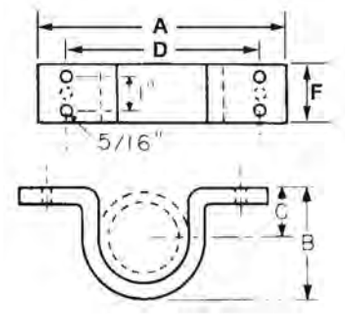
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ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 180
SHORT CLIP



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or electro-galvanized.

Service: Designed to support pipe close to ceiling or wall.

Ordering: Specify size, figure number and finish.

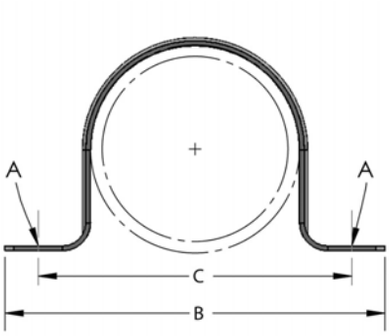
Notes: Available in stainless steel and hot-dip galvanized. Sizes 1/2" to 2" are furnished with two screw holes. Sizes 2 1/2" to 4" are furnished with four screw holes.

* Radius edge 1/2" to 2" with 2 holes.

* Square edge 2 1/2" to 4" with four holes.

PIPE SIZE	PIPE OD	MATERIAL	A	B	C	D	F	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	11ga	3 3/16	1 1/8	9/16	2 1/16	1 1/4	0.165	300
3/4	1.050		3 1/2	1 3/8	5/8	2 3/8		0.190	
1	1.315		4	1 5/8	3/4	2 7/8		0.235	
1 1/4	1.660		4 7/8	1 7/8	15/16	3 5/16		0.260	
1 1/2	1.900	8ga	4 13/16	2 3/16	1 1/8	3 11/16		0.400	
2	2.375		5 1/2	2 3/4	1 3/8	4 3/8		0.490	
2 1/2	2.875	8ga	6 3/8	3 1/8	1 5/8	5 3/8	1 3/4	0.910	400
3	3.500		7 1/8	3 3/4	1 15/16	6 1/8		0.950	
3 1/2	4.000		7 3/8	4 5/16	2 3/16	6 3/8		1.050	
4	4.500		7 3/4	4 13/16	2 7/16	6 3/4		1.160	

FIG. 231
TWO HOLE PIPE STRAP



Material: Pre-galvanized carbon steel.

Finish: Pre-galvanized.

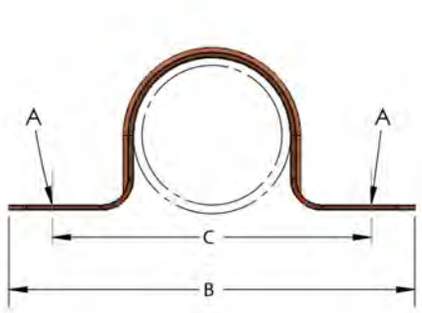
Service: Designed as a light duty support of schedule 40/80 sized pipe. Attaches directly to horizontal or vertical structural member.

Ordering: Specify pipe size and figure number.

Notes: Available domestic

PIPE SIZE	PIPE OD	MATERIAL SIZE	A HOLE SIZE	B	C	WGT EACH (lbs)
1/4	0.540	22ga x 3/4	7/32	2 1/8	1 1/4	0.01
3/8	0.675	22ga x 3/4		2 1/4	1 1/2	0.03
1/2	0.840	18ga x 3/4		2 5/8	1 7/8	0.04
3/4	1.050	18ga x 3/4		2 3/4	2	0.07
1	1.315	16ga x 1	9/32	3 3/8	2 5/8	0.09
1 1/4	1.660	16ga x 1		4 1/4	3 1/4	0.10
1 1/2	1.900	15ga x 1		4 3/8	3 3/8	0.13
2	2.375	14ga x 1		5	4	0.18
2 1/2	2.875	12ga x 1	11/32	6 1/4	4 3/4	0.26
3	3.500	12ga x 1		7 1/4	5 3/4	0.32
4	4.500	12ga x 1		8 3/8	6 7/8	0.40
6	6.625	12ga x 1 1/4		11 1/8	9 5/8	0.75

FIG. 231CT
COPPER TWO HOLE TUBING STRAP



Material: Carbon steel.

Finish: Copper plated.

Service: Designed as a light duty support for copper tubing. Attaches directly to horizontal or vertical structural member.

Ordering: Specify tube size and figure number.

Notes: Available domestic

PIPE SIZE	PIPE OD	MATERIAL SIZE	A HOLE SIZE	B	C	WGT EACH (lbs)
1/4	0.375	20ga x 1/2	3/16	1 3/4	1 1/8	0.01
3/8	0.500	20ga x 1/2		1 7/8	1 1/4	
1/2	0.625	20ga x 1/2		2 1/8	1 1/2	
3/4	0.875	20ga x 1/2		2 3/8	1 5/8	0.02
1	1.125	20ga x 1/2		2 7/8	2 1/4	
1 1/4	1.375	20ga x 1/2		3 1/8	2 1/2	0.04
1 1/2	1.625	18ga x 3/4	7/32	3 5/8	2 3/4	0.05
2	2.125	18ga x 3/4		4 1/4	3 3/8	0.06

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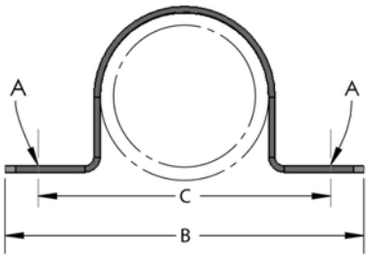
ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 231SS
TWO HOLE PIPE STRAP, 316 STAINLESS STEEL, IPS

FIG. 231OD
TWO HOLE PIPE STRAP, 316 STAINLESS STEEL, O.D.



Material: Type 316 stainless steel.

Service: Designed as a light duty support for schedule 40/80 sized pipe. Attaches directly to horizontal or vertical structural member.

Ordering: Specify pipe size or o.d. tubing size and figure number.

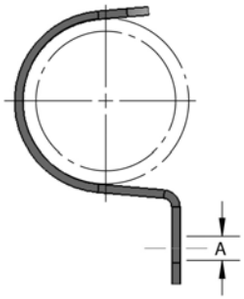
Notes: Stainless steel hangers are recommended for application where protection from corrosive environment is needed.

PIPE SIZE	PIPE OD	MATERIAL SIZE	A HOLE SIZE	B	C	WGT EACH (lbs)
1/4 OD	0.250	16ga x 7/8	9/32	2 9/16	1 9/16	.030
1/4	0.540			2 3/4	1 3/4	.035
3/8 OD	0.375			2 5/8	1 5/8	.030
3/8	0.675			3	2	.045
1/2 OD	0.500			2 13/16	1 13/16	.035
1/2	0.840			3 1/8	2 1/8	0.45
3/4 OD	0.750			3	2	.040
3/4	1.050			3 3/8	2 3/8	.060
1 OD	1.000			3 1/4	2 1/4	.050
1	1.315			3 7/8	2 7/8	.060
1 1/4	1.660	13ga x 3/4		4 1/4	3 1/4	.105
1 1/2	1.900			4 7/16	3 7/16	.115
2	2.375			5	4	.135
2 1/2	2.875		11/32	5 1/4	4 1/4	.165
3	3.500			6	5	.190
4	4.500	11ga x 1	7/16	7 1/4	6 1/4	.405
6	6.625	8ga x 1 1/4	9/16	11	9 7/16	1.15

FIG. 233
ONE HOLE PIPE STRAP

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



Material: Pre-galvanized carbon steel.

Finish: Pre-galvanized.

Service: Designed to support schedule 40/80 steel sized piping or sizes in a horizontal position from sides of structural member. Fastener hole may be above or below the pipe.

Ordering: Specify pipe size and figure number.

PIPE SIZE	PIPE OD	MATERIAL SIZE	A HOLE SIZE	WGT EACH (lbs)
1/4	0.540	16ga x 1/2	9/32	0.02
3/8	0.675	13ga x 3/4	9/32	0.04
1/2	0.840	13ga x 3/4	9/32	0.05
3/4	1.050	13ga x 3/4	9/32	0.06
1	1.315	11ga x 1	13/32	0.06
1 1/4	1.660	11ga x 1	13/32	0.17
1 1/2	1.900	11ga x 1	13/32	0.18
2	2.375	11ga x 1	21/32	0.36

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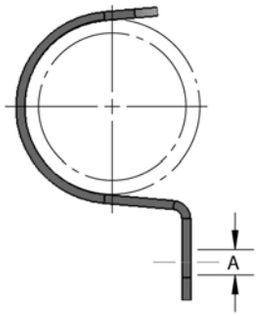
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FIG. 233SS
ONE HOLE PIPE STRAP, 316 STAINLESS STEEL, IPS

FIG. 233OD
ONE HOLE PIPE STRAP, 316 STAINLESS STEEL, O.D.



Material: 316 stainless steel.

Service: Designed to support schedule 40/80 steel sized piping or tubing sizes in a horizontal position from sides of structural member. Fastener hole may be above or below the pipe.

Ordering: Specify pipe size or OD tube size, and figure number.

Notes: Stainless steel hangers are recommended for applications where protection from corrosive environments is needed.

PIPE SIZE	PIPE OD	MATERIAL SIZE	A HOLE SIZE	WGT EACH (lbs)
1/4 OD	0.250	16ga x 7/8	9/32	.015
1/4	0.540			.030
3/8 OD	0.375			.015
3/8	0.675			.030
1/2 OD	0.500	13ga x 3/4		.035
1/2	0.840			.040
3/4 OD	0.750			.045
3/4	1.050			.055
1 OD	1.000			.055
1	1.315			.065
1 1/4	1.660	11ga x 1	5/16	.145
1 1/2	1.900			.170
2	2.375			.195

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FIG. 235
WIRE PIPE HOOK



Material: Carbon steel.

Finish: Plain (235B) or plastic coated .

Service: Designed to support steel pipe horizontally by driving nail points into wood members.

Ordering: Specify pipe size, length and figure number and finish.

PIPE SIZE	WGT EACH (lbs) LENGTH				
	4"	6"	8"	10"	12"
1/2	0.05	0.06	0.08	0.1	0.12
3/4					
1					
1 1/4					
1 1/2					
2					

FIG. 235CT
WIRE PIPE HOOK, COPPER

Manufactured in the USA



Material: Pre-copper plated carbon steel.

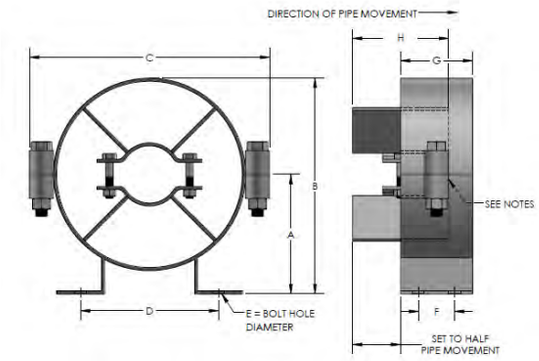
Finish: Copper plated.

Service: Designed to support copper tubing horizontally by driving nail points into wood members.

Ordering: Specify tube size, length and figure number.

PIPE SIZE	WGT EACH (lbs) LENGTH				
	4"	6"	8"	10"	12"
1/2	0.05	0.06	0.08	0.1	0.12
3/4					
1					
1 1/4					
1 1/2					
2					

FIG. 255
PIPE ALIGNMENT GUIDE (SINGLE SPIDER CLAMP)



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, or painted.

Service: Designed for use with insulated or non-insulated pipe lines to maintain alignment of piping through axial expansion and contraction cycles. Proper alignment of the adjoining pipe is of vital importance in the proper functioning of expansion joints in the line. Pipe guides are not designed to support any piping system weight. Therefore additional supports are required. Therefore the use of two or more guides on both sides of the expansion joint is recommended to avoid a pivoting effect in the line. Maximum temperature: 650°F.

Ordering: Specify pipe size, insulation thickness, figure number and size number.



Manufactured in the USA

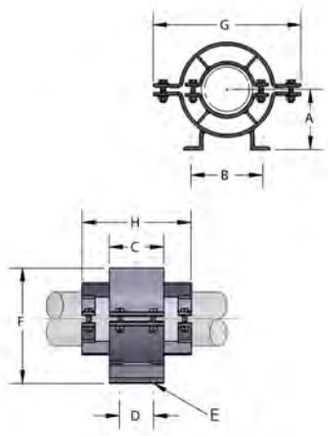
Model	A	B	C	D	E	F	G	H	Wgt Each (lbs)
23	3-1/2"	5-7/8"	6-1/8"	4-1/8"	5/8"	1-3/4"	3"	4"	7
24	4"	6-3/4"	7-1/8"	4-3/8"	5/8"	1-3/4"	3"	4"	8
25	4-3/8"	7-5/8"	8-1/8"	5-1/8"	5/8"	1-3/4"	3"	4"	9
26	5-1/4"	9-1/4"	10-1/8"	6-1/8"	5/8"	1-3/4"	3"	4"	11
27	6-1/4"	11-5/8"	12-1/8"	7"	5/8"	2-3/4"	4"	6"	17
28	7"	13-3/8"	14-1/8"	8-1/4"	5/8"	2-3/4"	4"	6"	20
29	7-7/8"	15-1/8"	16-1/8"	9-7/8"	3/4"	4"	6"	8"	40
30	8-7/8"	17"	18-1/8"	10-7/8"	3/4"	4"	6"	8"	48
31	9-3/4"	18-3/4"	20-1/8"	11-7/8"	3/4"	4"	6"	8"	54
32	10-7/8"	21"	22-1/8"	11-3/4"	3/4"	4"	6"	8"	61
33	12-1/8"	23-1/8"	24-1/8"	14-1/2"	7/8"	6"	8"	8"	89
34	13"	25"	26-1/8"	15-1/2"	7/8"	6"	8"	8"	102
35	14-3/4"	27-3/4"	28-1/8"	17-1/8"	1-1/8"	6"	8"	12"	110
36	16-1/2"	31-1/2"	32-1/8"	19-1/4"	1-1/8"	6"	8"	12"	150

Guide Size Selection Table							
Pipe Size	Insulation Thickness (in)						
	1	1 1/2	2	2 1/2	3	3 1/2	4
1/2"	23	23	24	26	26	26	27
3/4"	23	24	25	26	26	27	27
1"	23	24	25	26	26	27	27
1-1/4"	23	24	25	26	26	27	27
1-1/2"	24	24	25	26	26	27	27
2"	24	25	26	26	27	27	28
2-1/2"	25	25	26	26	27	27	28
3"	25	26	26	27	27	28	28
4"	26	26	27	27	28	28	29
5"	27	27	27	28	28	29	30
6"	27	27	28	28	29	30	30
8"	28	28	29	30	30	31	31
10"	30	30	30	31	31	32	32
12"	31	31	31	32	32	33	33
14"	32	32	32	32	33	33	34
16"	33	33	33	33	34	34	35
18"	34	34	34	34	35	35	-
20"	35	35	35	35	36	36	36
24"	36	36	36	36	-	-	-

FIG. 256
PIPE ALIGNMENT GUIDE

M.B.E. (Minority Business Enterprise)

Manufactured in the USA



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized or painted.

Service: Designed for use with insulated or non-insulated pipe lines to maintain alignment of piping through axial expansion and contraction cycles. Proper alignment of the adjoining pipe is of vital importance in the proper functioning of expansion joints in the line. Pipe guides are not designed to support any piping system weight, therefore additional supports are required. The use of two or more guides on both sides of the expansion joint is recommended to avoid a pivoting effect in the line. Maximum temperature is 750°F.

Ordering: Specify pipe size, insulation thickness, figure number and size number.

SIZE NO.	A	B	C	D	E BOLT SIZE	F	G	H	WGT EACH (lbs)
2	4	5 3/8	4	2 1/2	1/2	7 1/16	9 1/2	8	13.00
3	4 1/2	5 3/4			1/2	8 1/4	11 1/4	8	15.00
4	6	7	6	4	1/2	10 3/4	12 3/4	10	26.00
5	7 1/2	8 5/16			5/8	13 1/4	15 1/2	10	35.00
6	8 1/2	8 3/4	8	5	5/8	15 1/2	17 1/2	12	48.00
7	9 1/4	11 1/16			3/4	17	18 3/8	12	59.00
8	10 1/8	12			3/4	18 3/4	20 1/2	12	66.00
9	11	13 1/4			3/4	20 1/4	22 3/8	12	69.00
10	12	13 9/16			7/8	22 1/4	24	12	88.00
11	13 3/4	15 1/4			7/8	26	28	12	132.00
12	14 3/4	15 3/4			7/8	28	30	12	144.00
13	16 1/4	18 3/4			1	31 1/2	34	12	153.00
14	18 1/4	19 1/2			1	35 1/2	38	12	172.00

GUIDE SIZE SELECTION TABLE								
PIPE SIZE	J-INSULATION THICKNESS							
	0	1	1 1/2	2	2 1/2	3	4	5
1	2	2	2	3	4	4	5	6
1 1/4	2	2	3	4	4	5	5	6
1 1/2	2	2	3	4	4	5	6	7
2	2	2	3	4	4	5	6	7
2 1/2	3	3	4	4	5	5	6	7
3	3	3	4	4	5	5	6	8
3 1/2	4	4	4	5	5	6	7	8
4	4	4	4	5	5	6	7	8
5	5	5	5	5	6	6	8	9
6	5	5	5	6	6	7	8	9
8	7	7	7	7	8	8	9	10
10	9	9	9	9	9	9	10	11
12	10	10	10	10	10	10	11	11
14	11	11	11	11	11	11	11	12
16	11	11	11	11	11	11	12	13
18	12	12	12	12	12	12	13	13
20	13	13	13	13	13	13	13	14
24	14	14	14	14	14	14	14	-

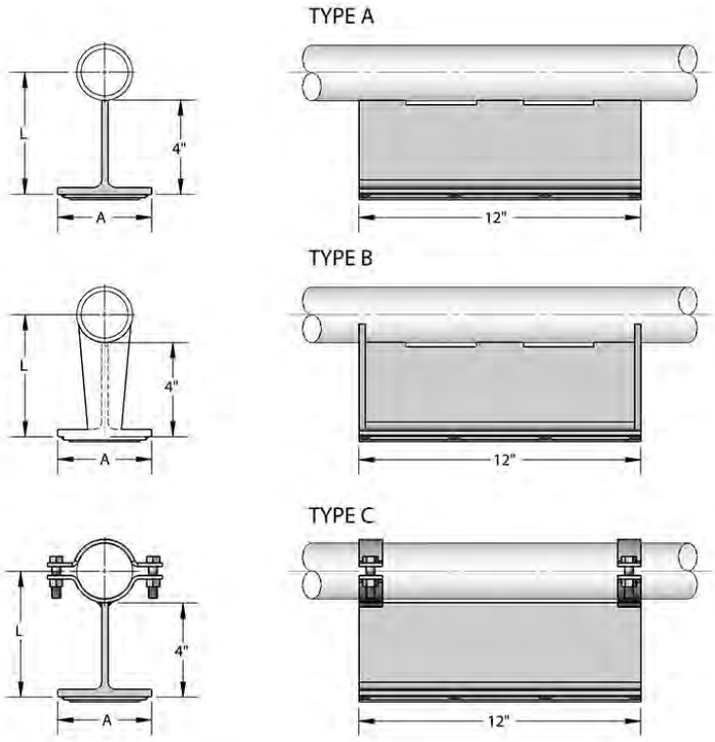
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FIG. 4000 SERIES PIPE SLIDE TEE

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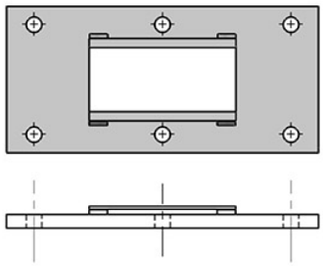
Material:	Carbon steel tee with or without PTFE slide pad, also available in 304 and 316 stainless steel.
Finish:	Plain, galvanized or painted.
Service:	Designed for the support of pipe where horizontal movement may occur due to expansion and contraction and a low coefficient of friction is required. May be welded or clamped to pipe.
Approvals:	Complies with Federal Specification A-A-1192A (Type# 35) and Manufacturers' Standardization Society MSS SP 58 and SP 69 (Type# 35).
Ordering:	Specify pipe size, figure number, type, finish and pipe clamp figure number. Order slide base (Fig. 4100) if required.
Notes:	Designed to minimize heat loss through tee. Tee without PTFE to be used as a pipe anchor only. No lubrication required.

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

FIG. 4100 SERIES SLIDE PLATES

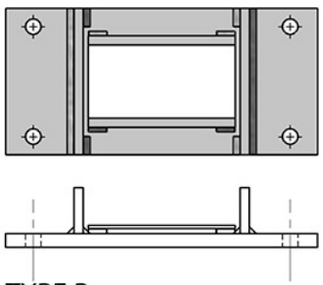
M.B.E. (Minority Business Enterprise)

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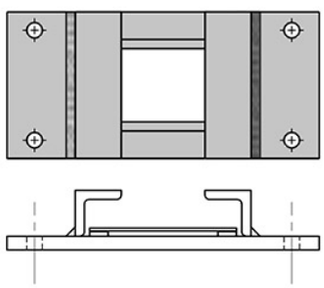
TYPE A

Material:	Carbon steel, PTFE bonded base. (304 and 316 stainless steel).
Finish:	Plain, galvanized or painted.
Service:	Base support for pipe slides. Wider and longer pads can be furnished for heavier loads and greater movement.
	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.
Ordering:	Specify figure number, type and size. Indicate if bolt holes are required.



TYPE B

Material:	Carbon steel, PTFE bonded base. (304 and 316 stainless steel).
Finish:	Plain, galvanized or painted.
Service:	Supports pie slides where only axial movement is allowed. Acts as horizontal restraint in one direction.
	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.
Ordering:	Specify figure number, type and size. Indicate if bolt holes are required.



TYPE C

Material:	Carbon steel, PTFE bonded base. (304 and 316 stainless steel).
Finish:	Plain, galvanized or painted.
Service:	Supports pipe slide where horizontal movement on one plane 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 in themselves. Use only with PTFE pipe slides.
Ordering:	Specify figure number, type and size. Indicate if bolt holes are required.

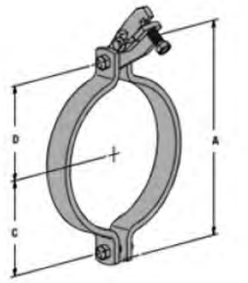
FIG. 4L
"In-Line" Sway Brace Attachment

M.B.E. (Minority Business Enterprise)

FM APPROVED

c UL us LISTED

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Material: Steel

Finish: Plain, Electro-Galvanized, or Stainless Steel.

Service: Multi-functional attachment to structure or braced pipe fitting.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved Factory Mutual Engineering (FM). Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).

Ordering: Figure number and finish.

Notes: The cross reference number for this product is Fig 031

Pipe Size in (mm)	A		C		D		Bolt Size	Max Horizontal Design Load (cULus) lbs/(kN)	Approximate Wgt/100 in (mm)
	in	mm	in	mm	in	mm			
2-1/2 (65)	6-7/16	163.5	2-1/2	63.5	2-3/4	69.8	1/2"-13	2015 (8.96)	253 (114.7)
3 (80)	7	177.8	2-3/4	69.8	3-1/16	77.8	1/2"-13	2015 (8.96)	268 (121.5)
4 (100)	8-1/2	215.9	3-3/8	85.7	3-11/16	93.7	1/2"-13	2015 (8.96)	348 (157.8)
5 (125)	9-3/4	247.6	3-7/8	98.4	4-3/8	111.1	1/2"-13	2015 (8.96)	380 (172.3)
6 (150)	11-1/2	292.1	5	127.0	5-1/8	130.2	1/2"-13	2015 (8.96)	640 (290.3)
8 (200)	13-1/4	336.5	5-5/8	142.8	5-5/8	142.8	1/2"-13	2015 (8.96)	728 (330.2)

Pipe Size in (mm)	Max Horizontal Design Load (cULus) lbs/(kN)	Max Horizontal Design Load (FM) **							
		30-44 degrees		45-59 degrees		60-74 degrees		75-90degrees	
		Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
2-1/2 (65)	2015 (8.96)	1030	4.58	1180	5.24	1420	6.31	1590	7.07
3 (80)	2015 (8.96)	1030	4.58	1180	5.24	1420	6.31	1590	7.07
4 (100)	2015 (8.96)	530	2.36	730	3.25	890	3.96	990	4.40
5 (125)	2015 (8.96)	530	2.36	730	3.25	890	3.96	990	4.40
6 (150)	2015 (8.96)	530	2.36	730	3.25	890	3.96	990	4.40
8 (200)	2015 (8.96)	490	2.18	680	3.02	830	3.96	930	4.13

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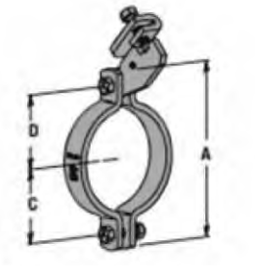
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FIG. 4LA
"In-Line" Sway Brace Attachment

M.B.E. (Minority Business Enterprise)

FM APPROVED

c UL us LISTED



The diagram represents pipe sizes for 1" through 4"

Material: Steel

Finish: Plain, Electro-Galvanized.

Service: For bracing pipe against sway and seismic disturbance.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL) 1" (25mm) through 10" (250mm) pipe. Approved Factory Mutual Engineering (FM) 1" (25mm) through 12" (300mm) pipe.

Ordering: Figure number, pipe size, and finish.

Pipe Size	A		C		D		Bolt	Approximate Wgt/100
in (mm)	in	mm	in	mm	in	mm	Size	in (mm)
1 (25)	3 –19/32	91.2	1-5/16	33.5	1-5/16	33.5	3/8"-16	119 (54.0)
1-1/4 (32)	3-29/32	99.3	1-3/8	35.3	1-3/8	35.3	3/8"-16	123 (55.8)
1-1/2 (40)	4-5/32	105.7	1-1/2	38.5	1-1/2	38.5	3/8"-16	127 (57.6)
2 (50)	5-11/32	135.6	2-1/32	51.9	2-1/16	51.9	3/8"-16	142 (64.4)
2-1/2 (65)	6-1/2	148.7	2-5/16	58.5	2-5/16	58.5	3/8"-16	173 (78.5)
3 (80)	5-27/32	164.9	2-5/8	66.6	2-5/8	66.6	3/8"-16	187 (84.8)
3-1/2 (90)	7-13/32	188.1	2-7/8	73.1	2-7/8	73.1	3/8"-16	198 (89.8)
4 (100)	7-17/32	191.3	3-1/8	79.5	3-1/8	79.5	3/8"-16	209 (94.8)
5 (125)	8-1/4	222.3	3-5/8	92.1	3-5/8	92.1	1/2"-13	298 (135.2)
6 (150)	10-5/8	269.9	4-9/16	115.9	4-9/16	115.9	1/2"-13	521 (236.3)
8 (200)	12-13/16	325.5	5-9/16	143.7	5-21/32	143.7	1/2"-13	629 (285.3)
10 (250)	16-1/2	419.1	7-1/4	184.2	7-1/4	184.2	1/2"-13	1320 (598.7)
12 (300)	18-1/2	469.9	8-1/4	309.6	8-1/4	309.6	1/2"-13	1496 (678.6)

(additional charts on the following page)

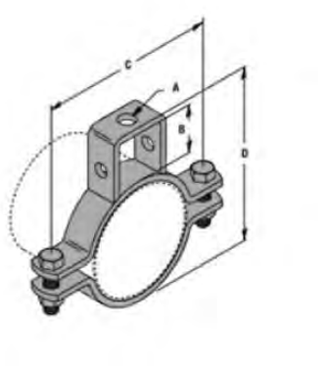
FIG. 4LA "In-Line" Sway Brace Attachment

(continued from previous page)

Longitudinal Loads Pipe Size in (mm)	Max Horizontal Design Load (UL) lbs (kN)	Max Horizontal Design Load (FM)							
		30-44 degrees		45-59 degrees		60-74 degrees		75-90degrees	
		Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
1 (25)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
1-1/4 (32)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
1-1/2 (40)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
2 (50)	1000 (4.45)	680	3.02	860	3.82	1030	4.58	1320	5.87
2-1/2 (65)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
3 (80)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
3-1/2 (90)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
4 (100)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
5 (125)	1600 (7.11)	-	-	-	-	-	-	-	-
6 (150)	1600 (7.11)	1620	7.20	2260	10.05	2010	8.94	2220	9.87
8 (200)	2015 (8.96)	1620	7.20	1660	7.38	1570	6.98	1740	7.74
10 (250)	2765 (12.30)	1620	7.20	1660	7.38	1570	6.98	1740	7.74
12 (300)	- –	1620	7.20	1660	7.38	1570	6.98	1740	7.74

Lateral Loads Pipe Size in (mm)	Max Horizontal Design Load (UL) lbs (kN)	Max Horizontal Design Load (FM)							
		30-44 degrees		45-59 degrees		60-74 degrees		75-90degrees	
		Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
1 (25)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
1-1/4 (32)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
1-1/2 (40)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
2 (50)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
2-1/2 (65)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
3 (80)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
3-1/2 (90)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
4 (100)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
5 (125)	1600 (7.11)	-	-	-	-	-	-	-	-
6 (150)	1600 (7.11)	1620	7.20	2300	10.23	2820	13.96	3140	13.96
8 (200)	2015 (8.96)	1620	7.20	2300	10.23	2820	13.96	3140	13.96
10 (250)	2765 (12.30)	1620	7.20	2300	10.23	2820	13.96	3140	13.96
12 (300)	- –	1620	7.20	2300	10.23	2820	13.96	3140	13.96

FIG. 4B
Pipe Clamp for Sway Bracing



Material:	Steel
Finish:	Plain, Electro-Plated
Service:	For bracing pipe against sway and seismic disturbance.
Approvals:	Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).
Ordering:	Specify pipe size and finish.
Notes:	The cross reference number for this product is Fig 040.

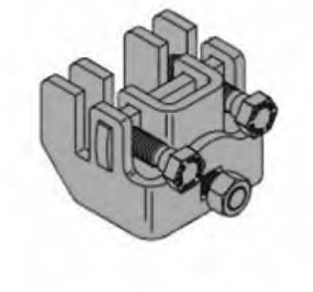
Pipe Size	Rod Size	B		C		D		Bolt	Design Load	Approximate Wgt/100
in (mm)	A	in	mm	in	mm	in	mm	Size	in (mm)	in (mm)
3/4	3/8"-16	1	25.4	2-7/8	73.0	2-5/8	66.7	5/16"-18	330 (1.47)	56 (25.4)
1 (25)	3/8"-16	1	25.4	3-1/4	82.5	2-15/16	74.6	5/16"-18	330 (1.47)	60 (27.2)
1-1/4 (32)	3/8"-16	1	25.4	3-9/16	90.6	3-1/4	82.5	5/16"-18	330 (1.47)	74 (33.5)
1-1/2 (40)	3/8"-16	1	25.4	3-13/16	96.8	3-7/16	87.3	5/16"-18	330 (1.47)	79 (35.8)
2 (50)	3/8"-16	1-1/2	38.1	5-1/8	130.2	4-5/8	117.5	5/16"-18	440 (1.78)	156 (70.7)
2-1/2 (65)	1/2"-13	1-3/4	44.4	5-5/8	142.9	5-3/8	136.5	3/8"-16	440 (1.78)	176 (79.8)
3 (80)	1/2"-13	1-7/8	47.6	6-3/4	171.4	6-1/8	155.5	3/8"-16	660 (2.93)	198 (89.9)
3-1/2 (90)	1/2"-13	2	50.8	7-1/4	184.1	6-3/4	171.4	3/8"-16	660 (2.93)	219 (99.3)
4 (100)	5/8"-11	2	50.8	8-5/8	219.1	7-1/4	184.1	1/2"-13	800 (3.56)	288 (130.6)
5 (125)	5/8"-11	2	50.8	9-7/8	250.8	8-5/16	211.1	5/8"-11	980 (4.36)	390 (176.9)
6 (150)	3/4"-10	2-1/8	54.0	10-15/16	277.8	9-1/2	241.3	5/8"-11	980 (4.36)	448 (203.2)
8 (200)	7/8"-9	2-1/8	54.0	13-7/16	341.2	11-1/2	292.1	3/4"-10	1200 (5.34)	691 (313.4)

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Manufactured in the USA Excluding 21LI

FIG. 825
Bar Joist Sway Brace Attachment To Steel



Material: Steel

Finish: Plain or Electro-Galvanized

Service: To attach sway brace assemblies and/or hanger assemblies to structural steel members.

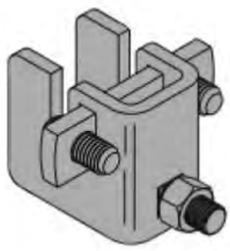
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Factory Mutual (FM) approved. Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).

Ordering: Figure number and finish.

Max Horizontal Design Load (FM) Lateral – Parallel to the Beam Maximum 3/8" Thick Flange							
30-44 degrees		45-59 degrees		60-74 degrees		75-90 degrees	
Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
990	4.40	1360	6.05	1670	7.43	1860	8.27

Max Horizontal Design Load (FM) Lateral – Perpendicular to the Beam Maximum 3/8" Thick Flange							
30-44 degrees		45-59 degrees		60-74 degrees		75-90 degrees	
Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
460	2.04	630	2.80	770	3.42	860	3.82

FIG. 825A
Bar Joist Sway Brace Attachment To Steel



Material: Steel

Finish: Plain or Electro-Galvanized

Service: To attach sway bracing to steel open web structural members.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL).

Ordering: Figure number and finish.

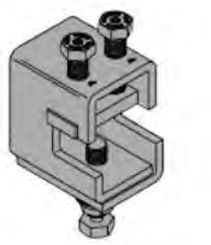
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FIG. 828
Universal Swivel Sway Brace Attachment to Steel



Material:	Steel
Finish:	Plain or Electro-Galvanized
Service:	To attach bracing to various types of steel structural members.
Approvals:	Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Factory Mutual (FM) approved.
Ordering:	Figure number and finish.

Max Horizontal Design Load (UL), Max Horizontal Design Load Across Beam 2015 lbs (8.96kN), Max Horizontal Design Load Along Beam 2015 lbs. (8.96kN)

Max Horizontal Design Load (FM) With Brace Perpendicular to the Beam Brace Angle (degrees from vertical)							
30-44 degrees		45-59 degrees		60-74 degrees		75-90 degrees	
Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
1570	6.98	2220	9.87	1210	5.38	700	3.11

Max Horizontal Design Load (FM) With Brace Parallel to the Beam Brace Angle (degrees from vertical)							
30-44 degrees		45-59 degrees		60-74 degrees		75-90 degrees	
Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
690	3.07	970	4.31	1210	5.38	1330	5.91

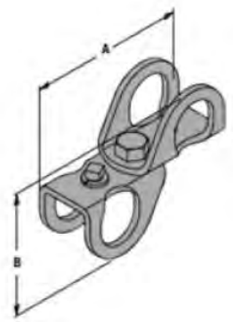
FM Approved design loads are based on ASD design method.

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FIG. 907
4-Way Sway Brace Attachment



Material:	Steel, hardened cone (or cup) point set screw.
Finish:	Plain.
Service:	For bracing pipe against sway and seismic disturbances; functions as a longitude brace connection when attached to a lateral brace pipe. Bracing connection must be positioned as close as physically possible to the braced pipe.
Approvals:	Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).
Ordering:	Figure number, bracing pipe sizes, and finish.

Can be attached on either side of the pipe being braced.

Part Number	Brace Pipe Size		A		B		Maximum Design Load lbs (kN)	Approximate Wgt/100 lbs (kg)
	in	mm	in	mm	in	mm		
907 -1 x 1	1 x 1	25 x 25	4-3/4	120.6	4-3/4	120.6	655* (2.91)	103 (46.7)
907 – 1 x 1-1/4	1 x 1-1/4	25 x 32	5-3/16	128.6	4-13/16	122.2	655* (2.91)	107 (48.5)
1-1/4 x 1-1/4	1-1/4 x1-1/4	32 x 32	5-3/8	136.5	5-1/4	133.1	655* (2.91)	109 (49.4)
* Load will accommodate up to 4 " (100mm) pipe at maximum spacing.								

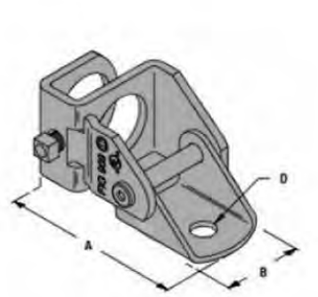
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FIG. 909SA
No-Thread Swivel Sway Brace Attachment



Material: Steel, hardened cone point screw.

Finish: Plain.

Service: The structural component of a sway and seismic bracing system.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).

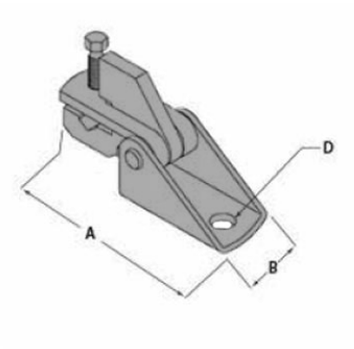
Ordering: Figure number, fastener attachment size, and finish.

Part Number	Hole Size D		A		B		Maximum Design Load lbs (kN)	Approximate Wgt/100 lbs (kg)
	in	mm	in	mm	in	mm		
909SA - 3/8	13/32	10.3	6	152.4	1-5/8	41.3	2015 (8.96)	92 (41.7)
909SA - 1/2	17/32	13.5	6	152.4	1-5/8	41.3	2015 (8.96)	91 (41.3)
909SA – 5/8	11/16	17.5	6	152.4	1-5/8	41.3	2015 (8.96)	90 (40.8)
909SA – 3/4	13/16	20.6	6	152.4	1-5/8	41.3	2015 (8.96)	89 (40.4)

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FIG. 980
Universal Swivel Sway Brace Attachment

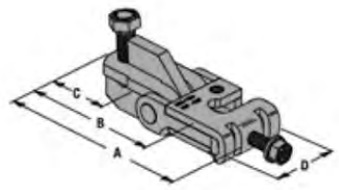


Material:	Steel
Finish:	Plain, Electro-Galvanized, or Stainless Steel.
Service:	Multi-functional attachment to structure or braced pipe fitting.
Approvals:	Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved Factory Mutual Engineering (FM). Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).
Ordering:	Figure number and finish.
Notes:	The cross reference number for this product is Fig 030

Part Number	A		B		D*		Max Horizontal Design Load (cULus) lbs/(kN)	Max Horizontal Design Load (FM) **								Approx Wgt/100 in (mm)
	in	mm	in	mm	in	mm		30-44 degrees		45-59 degrees		60-74 degrees		75-90 degrees		
								Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	
3/8	5-1/4	133.3	1-7/8	47.6	13/32	10.3	2015 (8.96)	1320	5.87	1970	8.76	2310	10.27	2550	11.34	149 (67.6)
1/2	5-1/4	133.3	1-7/8	47.6	17/32	13.5	2015 (8.96)	1320	5.87	1970	8.76	2310	10.27	2550	11.34	148 (67.1)
5/8	5-1/4	133.3	1-7/8	47.6	11/16	17.5	2015 (8.96)	1320	5.87	1970	8.76	2310	10.27	2550	11.34	147 (66.7)
3/4	5-1/4	133.3	1-7/8	47.6	13/16	20.5	2015 (8.96)	1320	5.87	1970	8.76	2310	10.27	2550	11.34	146 (66.2)

* Mounting attachment hole size.
** Installed with 1" or 1-1/4" Schedule 40 brace pipe.

FIG. 981
Fast Attach – Universal Swivel Sway Brace Attachment



Material: Steel

Finish: Electro-Galvanized

Service: Multi-functional attachment to hanger rod, trapeze rod, structure or braced pipe fitting.

Approvals: Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).

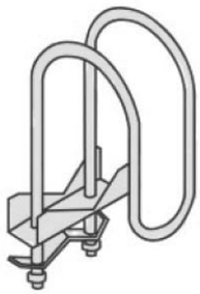
Ordering: Figure number, rod size.

Part Number	Rod Size Range	A		B		C		D		Max Horizontal Design Load lbs (kN)	Approximate Weight/100 lbs. (kg)
		in	mm	in	mm	in	mm	in	mm		
981-S	3/8" thru 5/8"	5-1/8	130.2	4-1/8	104.8	1-1/4	31.7	2-1/4	57.1	2015 (8.96)	88 (39.9)
981-L	3/4" & 7/8"	5-1/8	130.2	4-1/8	104.8	1-1/4	31.7	2-1/4	57.1	2015 (8.96)	82 (37.2)

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Fig. 1000
"Fast Clamp" Sway Brace Attachment



Max. Horizontal Design Load (UL) – 1" (25mm) through 2" (50mm) pipe size 655 lbs. (2.91kN)

Material:	Steel
Finish:	Plain
Service:	A restraint device intended for lateral bracing.
Approvals:	Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved for use with Allied Dyna Flow sprinkler pipe up to 2" as restraint device. Maximum horizontal design load is 655 lbs. (2.91kN) Torque requirement is 6-8ft./lbs. (8-10Nm). Approved by the State of California Office of Statewide Health Planning and Development (OSHPG).
Ordering:	Order first by pipe size to be braced, followed by pipe size used for bracing, figure number, and finish.
Notes:	The cross reference number for this product is Fig 010

Pipe Size in (mm)	Approximate Weight/100				Max Horizontal Design Load (FM)*							
	1" Brace Pipe		1-1/4" Brace Pipe		30-44 degrees		45-59 degrees		60-74 degrees		75-90 degrees	
	Lbs	(Kg)	Lbs	(Kg)	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
1 (25)	71.6	32.5	75.8	34.4	200	0.89	280	1.24	340	1.51	380	1.69
1-1/4 (32)	74.8	33.9	79.1	35.9	200	0.89	280	1.24	340	1.51	380	1.69
1-1/2 (40)	77.8	35.3	82.1	37.2	200	0.89	280	1.24	340	1.51	380	1.69
2 (50)	84.1	38.1	88.4	40.1	200	0.89	280	1.24	340	1.51	380	1.69
2-1/2 (65)	90.2	40.9	94.6	42.9	200	0.89	280	1.24	340	1.51	380	1.69
3 (80)	97.3	44.1	101.7	46.1	230	1.02	320	320	400	1.78	450	2.00
3-1/2 (90)	104.0	47.2	108.4	49.2	230	1.02	320	320	400	1.78	450	2.00
4 (100)	110.3	50.0	114.6	52.0	230	1.02	320	320	400	1.78	450	2.00
5 (125)	123.1	55.8	127.4	57.8	-	-	-	-	-	-	-	-
6 (150)	136.5	61.9	140.8	63.8	-	-	-	-	-	-	-	-

* Max Horizontal Design Load (FM) Notes

- Load rating for LW above refers to FM Approved Lightwall Pipe commonly referred to as "Schedule 7". These ratings may also be applied with EN 10220 and GB/T 8163 steel pipe.
- Load rating for "Schedule 10" above may be applied to GB/T 3092, EN 10255M, and H, or JIS G3454, FM Approved Thinwall, or "Schedule 40" steel pipes.

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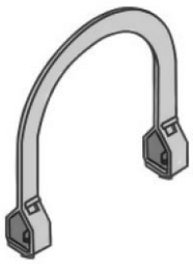
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Fig. 1001
Sway Brace Attachment



Material:	Steel
Finish:	Plain or Electro-Galvanized.
Service:	For bracing pipe against sway and seismic disturbance.
Approvals:	Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved by Factory Mutual Engineering (FM). Approved by the State of California Office of Statewide Health Planning and Development (OSHPD).
Ordering:	Indicate pipe size to be braced, followed by pipe size used for bracing, figure number, and finish.
Notes:	The cross reference number for this product is Fig 015

Pipe Size in (mm)	Approximate Weight/100				Max Horizontal Design Load (FM) *							
	1" Brace Pipe		1-1/4" Brace Pipe		30-44 degrees		45-59 degrees		60-74 degrees		75-90 degrees	
	Lbs	(Kg)	Lbs	(Kg)	Lbs	(kN)	Lbs	(kN)	Lbs	(kN)	Lbs	(kN)
1 (25)	100.0	45.3	118.0	53.5	1800	8.00	2550	11.34	3120	13.88	3490	25.52
1-1/4 (32)	100.0	45.3	114.0	51.7	1230	5.47	1740	7.74	2140	9.52	2380	10.58
1-1/2 (40)	100.0	45.3	115.0	52.1	1230	54.7	1740	7.74	2140	9.52	2380	10.58
2 (50)	108.0	49.0	121.0	54.9	1230	5.47	1740	7.74	2140	9.52	2380	10.58
2-1/2 (65)	138.6	62.8	160.4	72.7	800	3.56	1130	5.02	1380	6.14	1540	6.85
3 (80)	147.2	66.7	168.7	76.5	850	3.78	1200	5.34	1470	6.54	1640	7.29
4 (100)	160.9	73.0	182.4	82.7	850	3.78	1200	5.34	1470	6.54	1640	7.29
6 (150)	190.0	86.2	211.4	95.9	510	2.27	730	3.25	890	3.96	990	4.40
8 (200)	217.4	98.6	238.8	108.3	510	2.27	730	3.25	890	3.96	990	4.40

* Max Horizontal Design Load (FM) Notes

- For Sch 7, Sch 10, & Sch 40 Pipe
- FM Approved when used with 1 or 1-1/4 inch NPS Schedule 40 GB/T 3091, EN 10255H, or JIS G3451 steel pipe as the brace member.
- Load rating for LW above refers to FM Approved Lightwall Pipe commonly referred to as "Schedule 7". These ratings may also be applied with EN 10220 and GB/T 8163 steel pipe.
- Load rating for "Schedule 10" above may be applied to GB/T 3092, EN 10255M, and H, or JIS G3454, FM Approved Thinwall, or "Schedule 40" steel pipes.

Pipe Size in (mm)	Max Horizontal Design Load (UL) - Lbs					
	Schedule 7		Schedule 10		Schedule 40	
	1"	1-¼"	1"	1-¼"	1"	1-¼"
1 (25)	-	-	1000	1000	1000	1000
1-1/4 (32)	1000	1000	1000	1000	1000	1000
1-1/2 (40)	1000	1000	1500	1500	1500	1500
2 (50)	1000	1000	2015	2015	2015	2015
2-1/2 (65)	1600	1600	2015	2015	2015	2015
3 (80)	1600	1600	2015	2015	2015	2015
4 (100)	1600	1600	2015	2015	2015	2015
6 (150)	1600	1600	2015	2015	2015	2015
8 (200)	1600	1600	2015	2015	2015	2015

FIG. DBS
BASE WITH 14 GA. (1.9MM) GALV. CHANNEL – 1" (25.4MM) HIGH



Dimensions: 5" (127mm) High x 6" (152mm) Wide x Length (overall length)

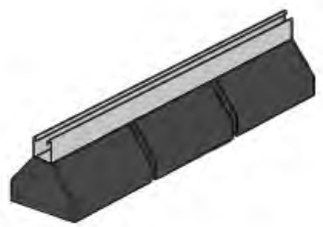
Ordering: Specify figure number and model number.

Ultimate Load Capacity:

(uniform load) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Height in (mm)	Width in (mm)	Overall Length	Weight Each	Ultimate Load Capacity
782051/50035	DB 5	5 (127)	6 (152)	4.8 (122)	2.75 (1.25kg)	200 lbs (0.89kN)
782051/49972	DB 10	5 (127)	6 (152)	9.6 (244)	5.28 (2.39kg)	500 lbs (2.22kN)
782051/49974	DB 20	5 (127)	6 (152)	20.2 (5123)	10.63 (4.82kg)	1000 lbs (4.45kN)
782051/50021	DB 30	5 (127)	6 (152)	30.8 (782)	15.99 (7.25kg)	1500 lbs (6.67kN)
782051/50022	DB 40	5 (127)	6 (152)	41.4 (1052)	21.34 (9.68kg)	2000 lbs (8.89kN)
782051/50023	DB 48	5 (127)	6 (152)	52.0 (1321)	26.70 (12.4kg)	2500 lbs (11.12kN)

FIG. DB6S
BASE WITH 12 GA. (2.6MM) GALV. CHANNEL – 2-7/16" (62MM) HIGH



Dimensions: 6-7/16" (163mm) High
x 6" (152mm) Wide
x Length (overall length)

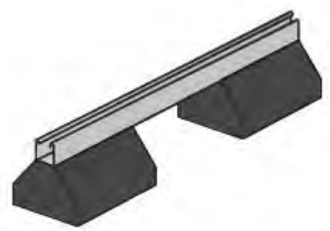
Ordering: Specify figure number and model number.

Ultimate Load Capacity:

(uniform load) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Height in (mm)	Width in (mm)	Overall Length	Weight Each	Ultimate Load Capacity
782051/50024	DB6 10	6-7/16 (163)	6 (152)	9.6 (244mm)	6.36 (2.88kg)	500 lbs (2.22kN)
782051/50025	DB6 20	6-7/16 (163)	6 (152)	20.2 (513)	12.90 (5.85kg)	1000 lbs (4.45kN)
782051/50026	DB6 30	6-7/16 (163)	6 (152)	30.8 (782)	19.45 (8.82kg)	1500 lbs (6.67kN)
782051/50027	DB6 40	6-7/16 (163)	6 (152)	41.4 (1052)	26.00 (11.79kg)	2000 lbs (8.89kN)
782051/50028	DB6 48	6-7/16 (163)	6 (152)	52.0 (1321)	32.55 (14.76kg)	2500 lbs (11.12kN)

FIG. DB10S
2 BASES WITH 12 GA. (2.6MM) GALV CHANNEL – 1-5/8" (41MM) HIGH



Dimensions: 5-5/8" (143mm) High
x 6" (152mm) Wide
x Length (bridge length)

Ordering: Specify figure number and model number.

Ultimate Load Capacity:

1000 lbs. (4.45kN), (uniform load) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Height / in (mm)	Width / in (mm)	Individual Base Length	Bridge Length	Weight Each	Ultimate Load Capacity
782051/50029	DB10 28	5-5/8 (143mm)	6 (152)	9.6" (244mm)	28" (711mm)	2.75 (1.25kg)	1000 lbs. (4.45kN)
782051/50031	DB610 36	5-5/8 (143mm)	6 (152)	9.6" (244mm)	36" (914mm)	5.28 (2.39kg)	1000 lbs. (4.45kN)
782051/50032	DB10 42	5-5/8 (143mm)	6 (152)	9.6" (244mm)	42" (1067mm)	10.63 (4.82kg)	1000 lbs. (4.45kN)
782051/50033	DB10 50	5-5/8 (143mm)	6 (152)	9.6" (244mm)	50" (1270mm)	15.99 (7.25kg)	1000 lbs. (4.45kN)
782051/50034	DB10 60	5-5/8 (143mm)	6 (152)	9.6" (244mm)	60" (1524mm)	21.34 (9.68kg)	1000 lbs. (4.45kN)

FIG. DBDSS
2 BASE SUPPORTS WITH 12 GA. (2.6MM) GALV CHANNEL – 1-5/8" (41MM) HIGH



Dimensions: Height (overall) x Width (overall) x Length (overall)

Riser Channels (SH Style): 1-5/8" (41mm) x 1-5/8 (41mm) x 12 ga (2.6mm)

Fittings & Hardware: Electro-Plated Steel

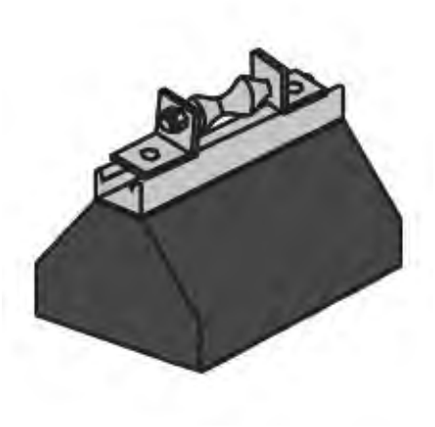
Ordering: Specify figure number and model number.

Ultimate Load Capacity:

1000 lbs. (4.45kN), (uniform load) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	A (minimum)	A (maximum) / in (mm)	B / in (mm)	Weight Each	Height (overall) in (mm)	Width (overall) in (mm)	Length (overall) in (mm)
782051/50717	DB 2318 DS	10.56" (268mm)	20.75 (527)	13.50 (343)	33.31 (15.11kg)	23 (584)	25-5/8 (651)	20.2 (513)
782051/50718	DB 2918 DS	10.56" (268mm)	26.75 (679)	13.50 (343)	35.00 (15.88kg)	29 (736)	25-5/8 (651)	20.2 (513)
782051/50719	DB 4118 DS	10.56" (268mm)	38.75 (984)	13.50 (343)	38.40 (17.42kg)	41 (1041)	25-5/8 (651)	20.2 (513)
782051/50720	DB 5318 DS	10.56" (268mm)	50.75 (1289)	13.50 (343)	41.80 (18.96kg)	53 (1346)	25-5/8 (651)	20.2 (513)
782051/50721	DB 2324 DS	10.56" (268mm)	20.75 (527)	19.50 (495)	34.15 (15.49kg)	23 (584)	31-5/8 (803)	20.2 (513)
782051/50722	DB 2924 DS	10.56" (268mm)	26.75 (679)	19.50 (495)	35.84 (16.26kg)	29 (736)	31-5/8 (803)	20.2 (513)
782051/50723	DB 4124 DS	10.56" (268mm)	38.75 (984)	19.50 (495)	39.25 (17.80kg)	41 (1041)	31-5/8 (803)	20.2 (513)
782051/50724	DB 5324 DS	10.56" (268mm)	50.75 (1289)	19.50 (495)	42.65 (19.34kg)	53 (1346)	31-5/8 (803)	20.2 (513)
782051/50725	DB 2336 DS	10.56" (268mm)	20.75 (527)	31.50 (800)	35.84 (16.26kg)	23 (584)	43-5/8 (1108)	20.2 (513)
782051/50726	DB 2936 DS	10.56" (268mm)	26.75 (679)	31.50 (800)	37.55 (17.03kg)	29 (736)	43-5/8 (1108)	20.2 (513)
782051/50727	DB 4136 DS	10.56" (268mm)	38.75 (984)	31.50 (800)	40.95 (18.57kg)	41 (1041)	43-5/8 (1108)	20.2 (513)
782051/50728	DB 5336 DS	10.56" (268mm)	50.75 (1289)	31.50 (800)	44.34 (20.11kg)	53 (1346)	43-5/8 (1108)	20.2 (513)
782051/50729	DB 2348 DS	10.56" (268mm)	20.75 (527)	43.50 (1105)	37.55 (17.03kg)	23 (584)	55-5/8 (1415)	20.2 (513)
782051/50730	DB 2948 DS	10.56" (268mm)	26.75 (679)	43.50 (1105)	39.25 (17.80kg)	29 (736)	55-5/8 (1415)	20.2 (513)
782051/50731	DB 4148 DS	10.56" (268mm)	38.75 (984)	43.50 (1105)	42.65 (19.34kg)	41 (1041)	55-5/8 (1415)	20.2 (513)
782051/50732	DB 5348 DS	10.56" (268mm)	50.75 (1289)	43.50 (1105)	46.03 (20.88kg)	53 (1346)	55-5/8 (1415)	20.2 (513)

FIG. DBRSF
BASE WITH 14 GA. (1.MM) GALV CHANNEL – 1" (25.4MM) HIGH AND PIPE ROLLER ASSEMBLY



Dimensions:	Height to Bottom of Pipe x 6" (152mm) Wide x Long (length)
Pipe Roller Material:	Cast Iron – Electro-Plated
Brackets, Axle, & Hardware:	Electro-Plated Steel
Ordering:	Specify figure number and model number.
Ultimate Load Capacity:	(uniform load) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Height ** / in (mm)	Width / in (mm)	Length / in (mm)	Weight Each	Ultimate Load Capacity
782051/50745	DBR 2 – 3-1/2	7.09 (180)	6 (152)	9.6 (244)	5.28 (2.39kg)	500 lbs (2.22kN)
782051/50746	DBR 4 – 6	7.09 (180)	6 (152)	9.6 (244)	10.63 (4.82kg)	500 lbs (2.22kN)
782051/50747	DBR 8 – 10	8.34 (212)	6 (152)	20.2 (5123)	15.99 (7.25kg)	1000 lbs (4.45kN)
782051/50748	DBR 12 – 14	8.34 (212)	6 (152)	20.2 (5123)	21.34 (9.68kg)	1000 lbs (4.45kN)
782051/50749	DBR 16 – 20	8.34 (212)	6 (152)	20.2 (5123)	26.70 (12.11kg)	1000 lbs (4.45kN)

FIG. DBRSA
BASE WITH TWO 1/2" (12.17MM) – 13" (330MM) ELECTRO ZINC ALL THREADED ROD RISERS AND A B 3114 – 3-1/2" (88.9) PIPE ROLL WITH SOCKETS



Dimensions: Overall Height as Specified Base – 4" High (101mm) x 6" (152mm) Wide x 9.6" (244mm) Length (base length)

Ordering: Specify figure number and model number.

Ultimate Load Capacity:

200 lbs. (0.89kN) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Adjustable Height	Width / in (mm)	Length / in (mm)	Weight Each	Ultimate Load Capacity
782051/50750	DBR 10-12	up to 12" (305mm)	6 (152)	9.6 (244)	6.46 (2.93kg)	200 lbs. (0.89kN)

FIG. DBRES
BASE WITH TWO 1/2" (12.7MM) – 13 ELECTRO ZINC ALL THREADED ROD RISERS AND 14 GA. (1.9MM) GALV. SLOTTED CHANNEL



Dimensions: Overall Height as Specified Base – 4" High (101mm) x 6" (152mm) Wide x 9.6" (244mm) Length (base length)

Ordering: Specify figure number and model number.

Ultimate Load Capacity

200 lbs. (0.89kN) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Adjustable Height / in (mm)	Width / in (mm)	Channel Length	Weight Each	Ultimate Load Capacity
782051/50036	DBE 10 – 8	5-1/2 – 8 (140 – 203)	6 (152)	9.35" (152mm)	5.68 (2.58kg)	200 lbs. (0.89kN)
782051/50037	DBE 10 – 12	5-1/2 – 12 (140 – 305)	6 (152)	9.35" (152mm)	5.72 (2.59kg)	200 lbs. (0.89kN)
782051/50038	DBE 10 – 16	5-1/2 – 16 (140 – 406)	6 (152)	9.35" (152mm)	5.76 (2.61kg)	200 lbs. (0.89kN)

FIG. DBMSA
BASE WITH 3/8" – 16 ELECTRO ZINC ALL THREADED ROD AND HINGED PIPE CLAMP



Dimensions:	Height to Pipe Center x 6" (152mm) Wide x 4.8" (12mm) Long (overall length)
Pipe Clamp Material:	Malleable Iron
Threaded Rod / Hardware:	Electro-Plated Steel
Ordering:	Specify figure number and model number.
Ultimate Load Capicity:	50 lbs. (0.22kN), (uniform load) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Height (Min) ** in (mm)	Height (Max) ** in (mm)	Width / in (mm)	Length / in (mm)	Weight Each	Ultimate Load Capacity
782051/50733	DBM 1/2 CT	9.69 (246)	11.19 (284)	6 (152)	4.80 (122)	2.75 (1.25kg)	50 lbs. (0.22kN)
782051/50734	DBM 3/4 CT	9.84 (250)	11.34 (288)	6 (152)	4.80 (122)	2.76 (1.25kg)	50 lbs. (0.22kN)
782051/50735	DBM 1 CT	9.95 (253)	11.45 (291)	6 (152)	4.80 (122)	2.84 (1.29kg)	50 lbs. (0.22kN)
782051/50736	DBM 1-1/4 CT	10.13 (257)	11.63 (295)	6 (152)	4.80 (122)	1.95 (1.34kg)	50 lbs. (0.22kN)
782051/50747	DBM 1-1/2 CT	10.28 (261)	11.78 (299mm)	6 (152)	4.80 (122)	2.96 (1.34kg)	50 lbs. (0.22kN)
782051/50738	DBM 2 CT	10.53 (267)	12.03 (305)	6 (152)	4.80 (122)	3.03 (1.37kg)	50 lbs. (0.22kN)

Chart Notes
- Copper Tubing Supports
** From bottom of rubber block to bottom of pipe/tubing.

UPC/Part #	Model #	Height (Min) ** in (mm)	Height (Max) ** in (mm)	Width / in (mm)	Length / in (mm)	Weight Each	Ultimate Load Capacity
782051/50739	DBM 1/2	9.86 (250)	11.36 (288)	6 (152)	4.80 (122)	2.78 (1.26kg)	50 lbs. (0.22kN)
782051/50740	DBM 3/4	10.06 (255)	11.56 (293)	6 (152)	4.80 (122)	2.84 (1.29kg)	50 lbs. (0.22kN)
782051/50741	DBM 1	10.14 (257)	11.64 (296)	6 (152)	4.80 (122)	2.86 (1.30kg)	50 lbs. (0.22kN)
782051/50742	DBM 1-1/4	10.25 (260)	11.75 (298)	6 (152)	4.80 (122)	2.93 (1.33kg)	50 lbs. (0.22kN)
782051/50743	DBM 1-1/2	10.42 (265)	11.92 (303)	6 (152)	4.80 (122)	2.99 (1.36kg)	50 lbs. (0.22kN)
782051/50744	DBM 2	10.66 (271)	12.16 (309)	6 (152)	4.80 (122)	3.10 (1.41kg)	50 lbs. (0.22kN)

Chart Notes
- Steel Pipe Supports
** From bottom of rubber block to bottom of pipe/tubing.

FIG. DBMSO
BASE WITH 3/8" – 16 ELECTRO ZINC ALL THREADED ROD AND HINGED PIPE CLAMP (BASE ONLY)



Dimensions: 4" (101mm) High x 6" (152mm) Wide x 9.6" (244mm) Long (base length)

Ordering: Specify figure number and model number.

Ultimate Load Capacity:

(uniform load) For roof loading, consult roof manufacturer or engineer. As with most commercial roofs, the weakest point may be the insulation board beneath the rubber membrane.

UPC/Part #	Model #	Height / in (mm)	Width / in (mm)	Length / in (mm)	Weight Each	Ultimate Load Capacity
782051/49691	DBP	4 (101)	6 (152)	9.6 (244)	4.48 (2.03kg)	500 lbs (2.22kN)
782051/50005	DBM	4 (101)	6 (152)	4.8 (122)	2.35 (1.07kg)	200 lbs (0.89kN)

FIG. PS
PIPE LINK SEAL



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Pipe Size	Actual Pipe O.D.	Standard Weight Steel Pipe or PVC Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
1/2"	0.840"	2"	2.067"	PS-200	4	2.0"	PS-200	4
3/4"	1.050"	2-1/2"	2.469"	PS-275	6	2.5"	PS-275	6
1"	1.315"	2-1/2"	2.469"	PS-200	5	3.0"	PS-315	4
1-1/4"	1.660"	3"	3.068"	PS-275	8	3.0"	PS-275	8
1-1/2"	1.900"	3"	3.068"	PS-200	7	3.5"	PS-300	5
2"	2.375"	3-1/2"	3.548"	PS-200	8	4.0"	PS-300	6
2-1/2"	2.875"	4"	4.026"	PS-200	9	4.0"	PS-200	9
3"	3.500"	5"	5.047"	PS-300	8	5.0"	PS-300	8
3-1/2"	4.000"	6"	6.065"	PS-315	10	6.0"	PS-315	10
4"	4.500"	6"	6.065"	PS-300	10	6.0"	PS-300	10
5"	5.563"	8"	7.981"	PS-340	13	8.0"	PS-340	13
6"	6.625"	10"	10.02"	PS-475	10	10.0"	PS-475	10
8"	8.625"	12"	12.00"	PS-475	12	12.0"	PS-475	12
10"	10.750"	14"	13.25"	PS-425	10	14.0"	PS-475	14
12"	12.750"	16"	15.25"	PS-425	12	16.0"	PS-475	17
14"	14.000"	18"	17.25"	PS-475	18	18.0"	PS-575	16
16"	16.000"	20"	19.25"	PS-475	21	20.0"	PS-575	18
18"	18.000"	22"	21.25"	PS-475	23	22.0"	PS-575	20
20"	20.000"	24"	23.25"	PS-475	25	24.0"	PS-575	22
22"	22.000"	26"	25.25"	PS-475	28	26.0"	PS-575	24
24"	24.000"	28"	27.25"	PS-475	30	28.0"	PS-575	26
26"	26.000"	30"	29.25"	PS-475	33	30.0"	PS-575	28
28"	28.000"	32"	31.25"	PS-475	35	32.0"	PS-575	30
30"	30.000"	34"	33.25"	PS-475	37	34.0"	PS-575	32
32"	32.000"	36"	35.25"	PS-475	40	36.0"	PS-575	34
34"	34.000"	40"	39.25"	PS-500	29	38.0"	PS-575	36
36"	36.000"	42"	41.25"	PS-500	31	40.0"	PS-575	38
42"	42.000"	48"	47.25"	PS-500	36	46.0"	PS-575	44
48"	48.000"	54"	53.25"	PS-500	41	52.0"	PS-575	50

Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

FIG. PSCT
PIPE LINK SEAL FOR COOPER TUBING



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Pipe Size	Actual Pipe O.D.	Standard Weight Steel or PVC Pipe Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
1/2"	.625"	2"	2.067"	PS-275	4	2.0"	PS-275	4
3/4"	.875"	2"	2.067"	PS-200	4	2.0"	PS-200	4
1"	1.125"	2-1/2"	2.469"	PS-275	6	3.0"	PS-315	4
1-1/4"	1.375"	2-1/2"	2.469"	PS-200	5	3.0"	PS-300	4
1-1/2"	1.625"	3	3.068"	PS-275	8	3.0"	PS-275	8
2"	2.125"	3-1/2"	3.548"	PS-300	5	3.5"	PS-275	9
2-1/2"	2.625"	4"	4.026"	PS-275	11	4.0"	PS-275	11
3"	3.125"	5"	5.047"	PS-315	8	5.0"	PS-315	8
4"	4.125"	6"	6.065"	PS-315	10	6.0"	PS-315	10
6"	6.125"	8"	7.981"	PS-315	15	8.0"	PS-315	15
8"	8.125"	10"	10.02"	PS-325	9	12.0"	PS-575	10
10"	10.125"	14"	13.25"	PS-410	14	14.0"	PS-575	12
12"	12.125"	16"	15.25"	PS-410	16	16.0"	PS-575	14

Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

FIG. PSE
PIPE LINK SEAL FOR ELECTRICAL METALLIC TUBING (EMT)



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Pipe Size	Actual Pipe O.D.	Standard Weight Steel or PVC Pipe Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
1/2"	.706"	2"	2.067"	PS-275	4	2.0"	PS-275	4
3/4"	0.922"	2"	2.067"	PS-200	4	2.0"	PS-200	4
1"	1.163"	2-1/2"	2.469"	PS-275	6	3.0"	PS-315	4
1-1/4"	1.510"	3	3.068"	PS-275	7	3.0"	PS-275	4
1-1/2"	1.740"	3-1/2"	3.548"	PS-315	5	3.5"	PS-315	5
2"	2.197"	3-1/2"	3.548"	PS-275	10	4.0"	PS-315	6
2-1/2"	2.875"	4"	4.026"	PS-200	9	4.0"	PS-200	9
3"	3.500"	5"	5.047"	PS-300	8	5.0"	PS-300	8
3-1/2"	4.000"	6"	6.065"	PS-315	10	6.0"	PS-315	10
4"	4.500"	6"	6.065"	PS-300	10	6.0"	PS-300	10

Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

FIG. PSI
PIPE LINK SEAL FOR INTERMEDIATE METAL CONDUIT (IMC)



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Pipe Size	Actual Pipe O.D.	Standard Weight Steel or PVC Pipe Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
1/2"	.815"	2"	2.067"	PS-200	4	2.0"	PS-200	4
3/4"	1.029"	2"	2.067"	PS-200	4	2.5"	PS-275	6
1"	1.290"	2-1/2"	2.469"	PS-275	6	3.0"	PS-300	4
1-1/4"	1.638"	3-1/2"	3.548"	PS-315	5	3.0"	PS-275	7
1-1/2"	1.883"	3-1/2"	3.548"	PS-300	5	3.5"	PS-300	5
2"	2.360"	4"	4.026"	PS-300	6	4.0"	PS-300	6
2-1/2"	2.857"	4"	4.026"	PS-200	9	4.0"	PS-200	9
3"	3.476"	5"	5.047"	PS-360	7	5.0"	PS-300	8
3-1/2"	3.971"	6"	6.065"	PS-340	9	6.0"	PS-325	5
4"	4.466"	6"	6.065"	PS-300	10	6.0"	PS-300	10

Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

FIG. FIG PSR
PIPE LINK SEAL FOR RIGID STEEL CONDUIT (RSC)



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Conduit Size	Actual Pipe O.D.	Standard Weight Steel or PVC Pipe Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
1/2"	.840"	2"	2.067"	PS-200	4	2.0"	PS-200	4
3/4"	1.050"	2-1/2"	2.469"	PS-275	6	2.5"	PS-275	6
1"	1.315"	2-1/2"	2.469"	PS-200	5	3.0"	PS-300	4
1-1/4"	1.660"	3-1/2"	3.548"	PS-315	5	3.0"	PS-275	7
1-1/2"	1.900"	3-1/2"	3.548"	PS-300	5	3.5"	PS-300	5
2"	2.375"	4"	4.026"	PS-300	6	4.0"	PS-300	6
2-1/2"	2.875"	4"	4.026"	PS-200	9	4.0"	PS-200	9
3"	3.500"	5"	5.047"	PS-300	8	5.0"	PS-300	8
3-1/2"	4.000"	6"	6.065"	PS-340	9	6.0"	PS-325	5
4"	4.500"	6"	6.065"	PS-300	10	6.0"	PS-300	10
5"	5.563"	8"	7.981"	PS-425	6	8.0"	PS-425	6
6"	6.625"	8"	7.981"	PS-300	15	10.0"	PS-475	10

Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

FIG. PSDI
PIPE LINK SEAL FOR DUCTILE IRON PIPE (AWWA-TYPE)



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Pipe Size	Actual Pipe O.D.	Standard Weight Steel or PVC Pipe Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
2"	2.500"	3-1/2"	3.548"	PS-200	8	4.0"	PS-300	6
2-1/4"	2.750"	5"	5.047"	PS-340	7	5.0"	PS-340	7
3"	3.960"	6"	6.065"	PS-315	10	6.0"	PS-315	10
4"	4.800"	8"	7.981"	PS-410	7	8.0"	PS-410	7
6"	6.900"	10"	10.02"	PS-410	10	10.0"	PS-410	10
8"	9.050"	12"	12.00"	PS-400	9	12.0"	PS-400	9
10"	11.100"	14"	13.25"	PS-340	24	14.0"	PS-400	10
12"	13.200"	16"	15.25"	PS-325	14	16.0"	PS-360	21
14"	15.300"	18"	17.25"	PS-325	16	18.0"	PS-360	24
16"	17.400"	20"	19.25"	PS-315	39	20.0"	PS-360	27
18"	19.500"	24"	23.25"	PS-475	25	24.0"	PS-525	17
20"	21.600"	26"	25.25"	PS-475	28	26.0"	PS-525	19
24"	25.800"	30"	29.25"	PS-475	32	28.0"	PS-340	53
30"	32.000"	36"	35.25"	PS-475	40	36.0"	PS-575	34
36"	38.300"	42"	41.25"	PS-400	34	42.0"	PS-475	47
42"	44.500"	50"	49.25"	PS-500	38	50.0"	PS-500	38
48"	50.800"	54"	53.25"	PS-425	45	56.0"	PS-500	43

Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

FIG. PSC
PIPE LINK SEAL FOR CAST IRON SOIL PIPE (EXTRA HEAVY)



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Pipe Size	Actual Pipe O.D.	Standard Weight Steel or PVC Pipe Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
2"	2.380"	3-½"	3.548"	PS-200	8	4.0"	PS-300	6
3"	3.500"	5"	5.047"	PS-300	8	5.0"	PS-300	8
4"	4.500"	6"	6.065"	PS-300	10	6.0"	PS-300	10
5"	5.500"	8"	7.981"	PS-340	13	8.0"	PS-340	13
6"	6.500"	10"	10.02"	PS-475	9	10.0"	PS-475	9
8"	8.620"	12"	12.00"	PS-475	12	12.0"	PS-475	12
10"	10.750"	14"	13.25"	PS-425	10	14.0"	PS-475	14
12"	12.750"	16"	15.25"	PS-425	12	16.0"	PS-475	17
15"	15.880"	20"	19.25"	PS-475	21	18.0"	PS-340	33

Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

FIG. PSCI
PIPE LINK SEAL FOR CAST IRON SOIL PIPE (SERVICE WEIGHT) NO HUB PIPE



Service: Designed to provide a gas and water tight seal. All sizes have been tested to withstand a hydro-static seal up to 20 psig or 40 feet of head pressure in addition to withstanding temperatures up to 250 degrees Fahrenheit.

Notes: Minimum Recommended sleeve length or wall thickness is 4 inches for pipe link seal model PS-325 and 6 inches for models PS-400 and larger.

Nominal Pipe Size	Actual Pipe O.D.	Standard Weight Steel or PVC Pipe Sleeve*				Cast of Core Bit Drilled Hole*		
		Sleve Nominal Pipe Size	Sleeve Actual I.D.	Model no.	Number of links required	Hole I.D.	Model no.	Number of links required
2"	2.300"	4"	4.026"	PS-315	6	4.0"	PS-315	6
3"	3.300"	5"	5.047"	PS-315	9	5.0"	PS-315	8
4"	4.300"	6"	6.065"	PS-315	11	6.0"	PS-315	11
5"	5.300"	8"	7.981"	PS-360	10	8.0"	PS-360	10
6"	6.300"	8"	7.981"	PS-315	15	8.0"	PS-315	15
8"	8.380"	12"	12.00"	PS-475	12	12.0"	PS-475	12
10"	10.500"	14"	13.25"	PS-360	17	14.0"	PS-475	14
12"	12.500"	16"	15.25"	PS-360	20	16.0"	PS-475	17
15"	15.620"	20"	19.25"	PS-475	20	18.0"	PS-425	14

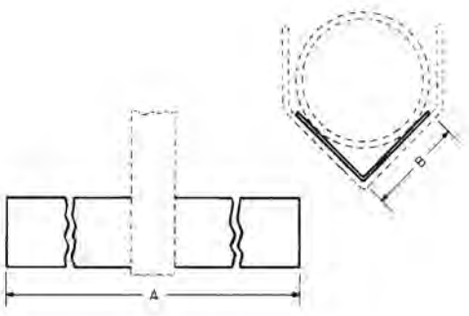
Chart Notes
* Minimum recommended sleeve length or wall thickness is 4" for model 325 and smaller and 6" for models 400 and larger.

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FIG. 12
V-CHANNEL



Material: Carbon steel, also available in 304 and 316 stainless steel.

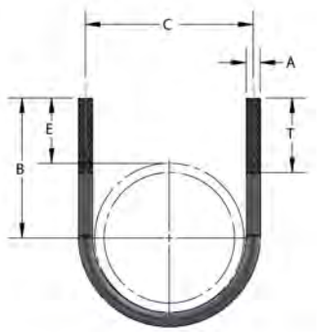
Finish: Pre-galvanized.

Service: Designed for the support of plastic or other flexible pipe systems. Use with FIG. 11V "V" bottom clevis hanger. Hangers should be placed as close to channel joints as possible.

Ordering: Specify size number and figure number.

SIZE NUMBER	FOR PIPE SIZE	MATERIAL SIZE	CHANNEL LENGTH A	B	WGT EACH (lbs)	MAX REC LOAD (lbs)
2	1/2 to 2	18 ga	10'	1 1/2	5.4	150
2	2 1/2 to 4	18 ga	10'	3	10.5	250

FIG. 37
LIGHT DUTY U-BOLT (LESS NUTS)



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed as a support, guide or anchor for light duty pipe.

Ordering: Specify pipe size, figure number and finish. Hex nuts can be ordered separately.

Notes: Available domestic.

PIPE SIZE	PIPE OD	A	B	C	E	T	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8	0.675	1/4	1 1/8	1	13/16	3/4	.04	485
1/2	0.840	1/4	2 1/16	1 1/4	1 5/8	1 3/4	.06	
3/4	1.050	1/4	2 1/8	1 3/8	1 5/8	1 3/4	.06	
1	1.315	1/4	2 5/16	1 5/8	1 5/8	1 3/4	.06	
1 1/4	1.660	1/4	2 7/16	2	1 5/8	1 3/4	.08	
1 1/2	1.900	1/4	2 1/2	2 1/4	1 9/16	1 3/4	.08	
2	2.375	1/4	2 3/4	2 11/16	1 9/16	1 3/4	.10	
2 1/2	2.875	3/8	3 1/8	3 3/8	1 11/16	2	.28	1220
3	3.500	3/8	3 1/2	3 7/8	1 3/4	2	.32	
3 1/2	4.000	3/8	3 11/16	4 1/2	1 11/16	2	.34	
4	4.500	3/8	3 7/8	4 7/8	1 5/8	2	.38	
5	5.563	3/8	4 5/8	6	1 13/16	2 1/4	.46	
6	6.625	1/2	5 1/8	7 1/4	1 13/16	2 1/4	.94	2260
8	8.625	1/2	6 1/8	9 1/8	1 13/16	2 1/4	1.16	

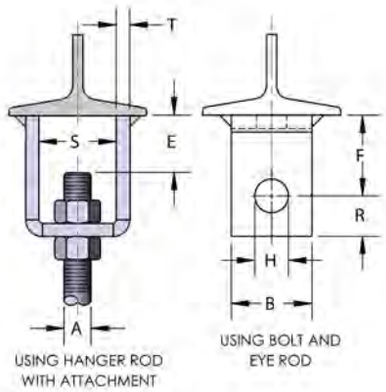
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FIG. 66L
WELDING BEAM ATTACHMENT

FIG. 66W
WELDING BEAM ATTACHMENT WITH BOLT & NUT



"E" dimension includes exposed rod threads beyond bottom of the hex nut. Exposed rod thread dimension is equal to the diameter of the rod used.

Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, painted or electro-galvanized.

Service: Designed for the attachment of hanger rod to the bottom flange of steel beams where heavy loads and large hanger rod sizes are required.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 22), A-A-1192A (Type# 22), and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 22).

Ordering: Specify rod size, figure number and finish.

Notes: Can be welded in either the upright or inverted position when ordered with hardware. 3/8 to 1-1/8 supplied with bolts and nuts. 1-1/4 and larger supplied with pins and cotters.

MISCELLANEOUS

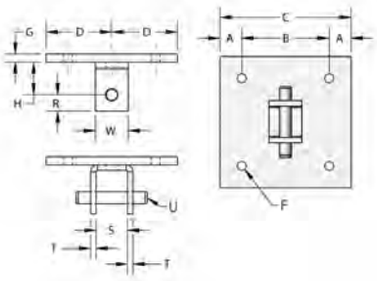
SIZE A	BOLT OR PIN SIZE	B	E	F	H	R	S	T	WEIGHT EACH (lbs)		MAX REC LOAD (lbs)	
									W/O BOLT & NUT	WITH BOLT & NUT	650°F	750°F
3/8	1/2 x 2 3/4	2	1 7/8	2	9/16	7/8	1 1/2	3ga	0.835	1.055	610	510
1/2	5/8 x 2 3/4	2	1 5/8	2	11/16	7/8	1 1/2	3ga	0.790	1.150	1130	940
5/8	3/4 x 3	2	1 3/8	2	13/16	7/8	1 1/2	3ga	0.770	1.350	1810	1510
3/4	7/8 x 3 1/2	2 1/2	1 3/8	2	29/32	1 1/8	1 9/16	3/8	1.640	2.560	2710	2260
7/8	1 x 4	2 1/2	2 1/4	3	1 1/16	1 1/4	2 1/16	3/8	2.240	3.600	3770	3150
1	1 1/8 x 5	3	2 3/4	3	1 1/4	1 1/2	2 3/4	1/2	4.270	6.290	4960	4150
1 1/4	1 3/8 x 6 1/2	4	2 7/8	3	1 1/2	2	3	5/8	8.090	10.220	8000	6660
1 1/2	1 5/8 x 6 1/2	5	4	4	1 3/4	2 1/2	3 1/2	3/4	15.600	19.020	11630	9700
1 3/4	1 7/8 x 6 7/8	5	5	5	2	2 3/4	3 3/4	3/4	18.700	24.180	15700	14000
2	2 1/4 x 6 7/8	6	5 1/4	5	2 3/8	3 1/4	3 3/4	3/4	22.800	30.550	20700	18460

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FIG. 67
CONCRETE CLEVIS PLATE



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or electro-galvanized.

Service: Designed for the attachment to concrete ceilings where flexibility is desired. Normally used in conjunction with FIG. 13 weldless eye nut or FIG. #26W welded eye rod.

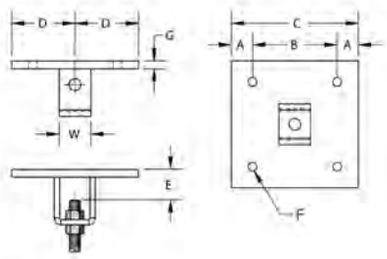
Ordering: Specify rod size, figure number and finish.

ROD SIZE (inch)	A	B	C	D	F	G	H	S	T	U	W	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8	1	8	10	5	9/16	3/8	2	1 1/2	1/4	1/2	2	11.87	610
1/2	1	8	10	5	9/16	3/8	2	1 1/2	1/4	5/8	2	12.01	1130
5/8	1	8	10	5	9/16	1/2	2	1 1/2	1/4	3/4	2	15.75	1810
3/4	1	8	10	5	11/16	1/2	2	1 3/4	3/8	7/8	2 1/2	16.99	2710
7/8	1	8	10	5	11/16	1/2	3	2 1/4	3/8	1	2 1/2	18.14	3770
1	2	8	12	6	13/16	3/4	3	2 3/4	1/2	1 1/8	3	37.01	4960
1 1/8	2	8	12	6	15/16	3/4	3	2 3/4	5/8	1 3/8	3	37.90	6230
1 1/4	2	8	12	6	15/16	3/4	3	3	5/8	1 3/8	4	40.72	8000
1 1/2	2	8	12	6	1 1/8	1	4	3 1/2	3/4	1 5/8	5	60.00	11630

MISCELLANEOUS

FIG. 68
CONCRETE ROD ATTACHMENT

Manufactured in the USA



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or electro-galvanized.

Service: Designed for the attachment of hanger rod to concrete ceilings where vertical adjustment of hanger is desired.

Ordering: Specify rod size, figure number and finish.

ROD SIZE (inch)	A	B	C	D	F	G	W	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8	1	8	10	5	9/16	3/8	2	11.66	610
1/2	1	8	10	5	9/16	3/8	2	11.66	1130
5/8	1	8	10	5	9/16	1/2	2	15.16	1810
3/4	1	8	10	5	11/16	1/2	2 1/2	16.12	2710
7/8	1	8	10	5	11/16	1/2	2 1/2	16.73	3770
1	2	8	12	6	13/16	3/4	3	34.99	4960
1 1/8	2	8	12	6	13/16	3/4	3	35.22	6230
1 1/4	2	8	12	6	13/16	3/4	4	38.81	8000

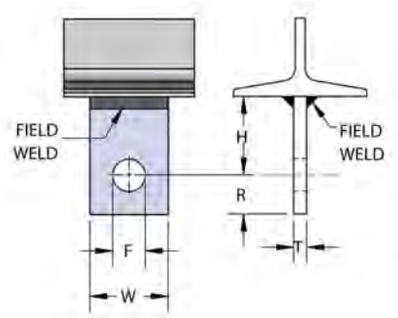
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FIG. 69L (LONG)
FIG. 69S (SHORT)
STRUCTURAL WELDING LUG



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain or electro-galvanized.

Service: Designed to be welded to structural members and used in conjunction with figure #909 forged steel clevis with pin and cotters.

Approvals: Complies with Federal Specification WW-H-171-E (Type# 57), A-A-1192A (Type# 57), and Manufacturers' Standardization Society MSS SP-58 and SP-69 (Type# 57).

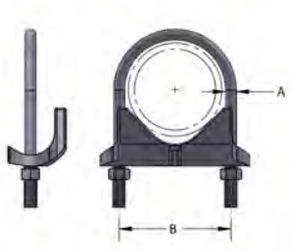
Ordering: Specify rod size, figure number, finish and whether long or short lug is required.

MISCELLANEOUS

FIG. 69S, 69L								FIG. 69S (Short)		FIG. 69L (Long)	
ROD SIZE A*	PIN OR BOLT DIA.	F	R	T	W	MAX LOAD 650°F	MAX LOAD 750°F	ROD TAKE OUT - H	WEIGHT (lbs)	ROD TAKE OUT - H	WEIGHT (lbs)
1/2	5/8	11/16	1 1/4	1/4	2 1/2	1350	1057	1 1/2	0.48	3	0.75
5/8	3/4	13/16		1/4		2160	1692		0.41	3	0.68
3/4	7/8	15/16		3/8		3230	2530		0.60	3	1.00
7/8	1	1 1/8		3/8		4480	3508	2	0.71	3	0.98
1	1 1/8	1 1/4	1 1/2	1/2	3	5900	4620		1.2	3	1.60
1 1/4	1 3/8	1 1/2	2	5/8	4	9500	7440	3	3.0	4	3.70
1 1/2	1 5/8	1 3/4	2 1/2	3/4	5	13800	10807		4.8	4 1/2	6.40
1 3/4	1 7/8	2		3/4		18600	14566		4.7	4 1/2	6.30
2	2 1/4	2 3/8	3	3/4	6	24600	19265	4	7.2	4 1/2	8.80
2 1/4	2 1/2	2 5/8		3/4		32300	25295	4 1/2	7.6	—	—
2 1/2	2 3/4	2 7/8	4	1	8	39800	31169		15.5	—	—
2 3/4	3	3 1/8		1		49400	38687		15.1	—	—
3	3 1/4	3 3/8		1		60100	47066	5	16.0	—	—
3 1/4	3 1/2	3 5/8	4 1/2	1	9	71900	56307		18.9	—	—
3 1/2	3 3/4	3 7/8		1 1/2		84700	66331	6	31.3	—	—
3 3/4	4	4 1/8		1 3/4		98500	77139		35.9	—	—

*Note: Rod size "A" is the assembly rod diameter. Dimension not shown on drawing

FIG. 136
RIGHT ANGLE CLAMP



Material: Malleable iron with carbon steel u-bolt and nuts.

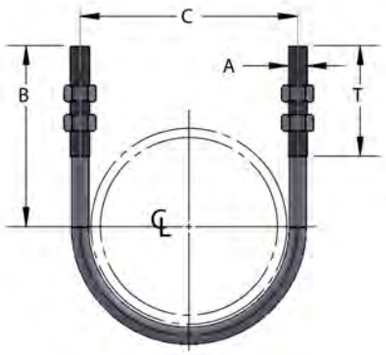
Finish: Electro-galvanized.

Service: Designed for anchoring pipe or conduit at a right angle to structural members.

Ordering: Specify pipe size and figure number.

PIPE SIZE	PIPE OD	A	B	WEIGHT EACH (lbs)
1/2	0.840	5/16	2	0.40
3/4	1.050		2 1/8	0.42
1	1.315		2 3/8	0.48
1 1/4	1.660		3	0.55
1 1/2	1.900		3 1/2	0.57
2	2.375	3/8	4	0.89
2 1/2	2.875		4 3/8	1.10
3	3.500		5	1.14
3 1/2	4.000		5 1/2	1.30
3	4.500		6	1.40

FIG. 137
STANDARD U-BOLT WITH 4 HEX NUTS



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized.

Service: Designed for support or guide of heavy loads.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 24), A-A-1192 A (Type# 24), and MSS SP-58 and SP-69 (Type# 24).

Ordering: Specify pipe size, figure number and finish. Sizes 1/2" to 1" can be furnished with 3/8" rod size.

Notes: U-bolts with longer tangents or longer threads are available. Also available with plastic coating.

Available domestic

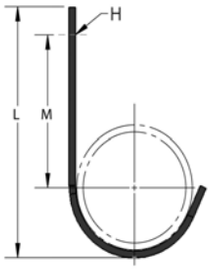
PIPE SIZE	PIPE OD	A	B	C	T	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	1/4-20	2 3/4	1 3/16	2 3/8	0.10	485
3/4	1.050	1/4-20	2 3/4	1 3/8	2 3/8	0.10	485
1	1.315	1/4-20	2 3/4	1 5/8	2 3/8	0.10	485
1 1/4	1.660	3/8-16	2 7/8	2 1/16	2 3/8	0.26	1220
1 1/2	1.900	3/8-16	3	2 3/8	2 1/2	0.28	1220
2	2.375	3/8-16	3 1/4	2 13/16	2 1/2	0.32	1220
2 1/2	2.875	1/2-13	3 3/4	3 7/16	3	0.70	2260
3	3.500	1/2-13	4	4 1/16	3	0.76	2260
3 1/2	4.000	1/2-13	4 1/4	4 9/16	3	0.80	2260
4	4.500	1/2-13	4 1/2	5 1/16	3	0.86	2260
5	5.563	1/2-13	5	6 1/8	3	1.00	2260
6	6.625	5/8-11	6 1/8	7 3/8	3 3/4	1.98	3620
8	8.625	5/8-11	7 1/8	9 3/8	3 3/4	2.26	3620
10	10.750	3/4-10	8 3/8	11 5/8	4	3.94	5420
12	12.750	7/8-9	9 5/8	13 3/4	4 1/4	6.40	7540
14	14.000	7/8-9	10 1/4	15	4 3/4	8.30	7540
16	16.000	7/8-9	11 1/4	17	4 3/4	9.20	7540
18	18.000	1-8	12 5/8	19 1/8	4 3/4	13.50	9920
20	20.000	1-8	13 5/8	21 1/8	4 3/4	14.60	9920
24	24.000	1-8	15 5/8	25 1/8	4 3/4	16.90	9920

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FIG. 145
RETURN LINE STRAIGHT J-HOOK



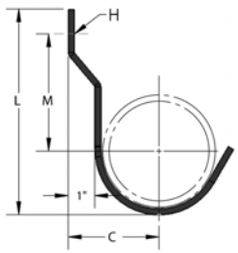
Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain, electro-galvanized.
Service: Designed for supporting light pipe loads next to wall.
Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	H	L	M	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	1 1/4 x 1/4	9/16	6 3/8	5	0.55	350
3/4	1.050	1 1/4 x 1/4		6 1/2		0.59	
1	1.315	1 1/4 x 1/4		6 11/16		0.82	
1 1/4	1.660	1 1/4 x 1/4		6 13/16		0.84	
1 1/2	1.900	1 1/2 x 1/4		6 15/16		1.09	600
2	2.375	1 1/2 x 1/4		7 3/16		1.15	
2 1/2	2.875	1 1/2 x 1/4		7 7/16		1.23	
3	3.500	1 1/2 x 1/4		7 3/4		1.39	
3 1/2	4.000	1 1/2 x 1/4		8		1.48	
4	4.500	1 1/2 x 1/4		8 1/4		1.58	

MISCELLANEOUS

FIG. 146
OFFSET J-HOOK

Manufactured in the USA



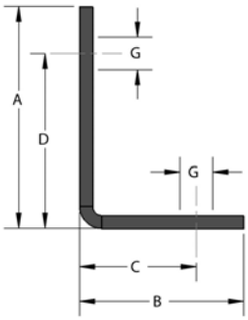
Material: Carbon steel, also available in 304 and 316 stainless steel.
Finish: Plain, electro-galvanized.
Service: Designed for supporting light pipe loads with 1" offset from wall to provide clearance for fittings.
Ordering: Specify pipe size, figure number and finish.

PIPE SIZE	PIPE OD	MATERIAL SIZE	C	H	L	M	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1/2	0.840	1 1/4 x 1/4	1 5/8	9/16	6 3/8	5	0.55	350
3/4	1.050		1 11/16		6 1/2	5	0.59	
1	1.315		1 15/16		6 11/16	5	0.82	
1 1/4	1.660		2 1/16		6 13/16	5	0.84	
1 1/2	1.900	1 1/2 x 1/4	2 7/16		6 15/16	5	1.09	600
2	2.375		2 7/16		7 3/16	5	1.15	
2 1/2	2.875		2 11/16		7 7/16	5	1.23	
3	3.500		3		7 3/4	5	1.39	
3 1/2	4.000		3 1/4		8	5	1.48	
4	4.500		3 1/2		8 1/4	5	1.58	
5	5.563	2 x 1/4	4 3/16		10	6 1/4	2.40	700
6	6.625		4 11/16		11	7	2.80	

M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 152
RETURN LINE ANGLE



Material: Carbon steel, also available in 304 and 316 stainless steel.

Finish: Plain.

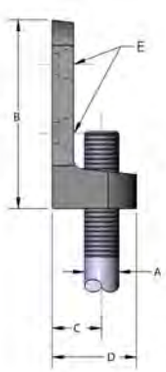
Service: Designed to enable the field mechanic to obtain different distances from wall to center of pipe line by turning the angle to distance required. They are made in light and heavy material and will support pipes 2, 3 or 4 inches from wall to center of pipe.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 21), A-A-1192 A (Type# 21), and MSS SP-58 and SP-69 (Type# 21).

Ordering: Specify size number, figure number and finish.

SIZE NO.	MATERIAL	A	B	C	D	G	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
1	4ga	3 13/16	2 13/16	2	3	9/16	0.425	180
2	4ga	4 13/16	3 13/16	3	4		0.585	180
3	3/8	3 7/8	2 7/8	2	3		0.870	390
4	3/8	4 7/8	3 7/8	3	4		1.175	390
5	4ga	6 15/16	4 15/16	4	6		0.825	180
6	3/8	6 15/16	4 15/16	4	6		1.650	190

FIG. 153
SIDE BEAM CONNECTOR



Material: Malleable iron.

Finish: Plain or electro-galvanized.

Service: Designed for mounting to sides of wood beams using figure 59 drive screws. Bottom hole is tapped for rod.

Ordering: Specify rod size, figure number and finish.

SIZE A	B	C	D	E SCREW SIZE	WEIGHT EACH (lbs)	MAX REC LOAD (lbs)
3/8-16	2 1/8	5/8	15/16	#12	0.13	250
1/2-13	2 3/4	3/4	1 3/16	#14	0.29	480

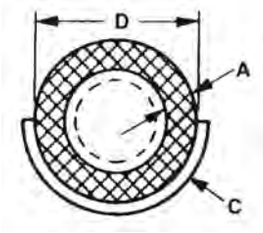
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FIG. 167
PIPE COVERING PROTECTION SHIELD

M.B.E. (Minority Business Enterprise)

Manufactured in the USA





Material:	Pre-galvanized carbon steel, also available in 304 and 316 stainless steel.
Finish:	Pre-galvanized.
Service:	Designed for outside of foam or fiberglass insulation on stationary pipe lines (not designed for pipe rollers) to prevent crushing of insulation without breaking the vapor barrier.
Approvals:	Complies with Federal Specifications WW-H-171-E (Type# 41), A-A-1192 A (Type# 40), and MSS SP-58 and SP-69 (Type# 40).
Ordering:	Specify shield size and figure number.
Notes:	Also available in 304 stainless steel.

MISCELLANEOUS

SIZE NO. SHIELD	B LENGTH	C STOCK SIZE	D DIAMETER	HANGER SIZE	WEIGHT EACH (lbs)
0	12	24ga	1 7/8	1 1/2	0.25
1			2 3/8	2	0.31
2			2 7/8	2 1/2	0.37
3		18ga	3 1/2	3	0.90
4			4	3 1/2	0.95
5			4 1/2	4	1.10
6			5	5	1.25
7			5 9/16	5	1.40
8			6 5/8	6	1.65
9			7 5/8	8	1.90
10			8 5/8	8	2.10
13			9 5/8	10	2.35
14			10 3/4	10	2.65
15			11 3/4	12	2.95
16			12 3/4	12	3.15
17		16ga	14	14	4.45
18			15	16	4.46
19			16	16	4.90
20			17	18	5.15
21			18	18	5.50
22			19	20	5.70
23			20	20	6.35
24			21	24	6.45
25			22	24	6.60
26			23	24	7.00
27			24	24	7.85
28			26	30	7.90
29			27	30	8.05
30			28	30	8.60

(additional charts on the following page)

FIG. 167 PIPE COVERING PROTECTION SHIELD

(continued from previous page)

PIPE SIZE	A-INSULATION THICKNESS				
	1/2	3/4	1	1 1/2	2
1/2	0	1	—	—	—
3/4	1	1	2	4	6
1	1	2	3	5	7
1 1/4	2	3	3	6	7
1 1/2	2	3	4	6	7
2	3	4	5	7	8
2 1/2	4	5	6	7	8
3	5	6	7	8	9
3 1/2	—	—	8	9	10
4	—	—	8	9	10
5	—	—	9	10	13
6	—	—	10	13	14
8	—	—	14	15	16
10	—	—	16	17	18
12	—	—	18	19	20
14	—	—	19	20	21
16	—	—	21	22	23
18	—	—	23	24	25
20	—	—	25	26	27
24	—	—	28	29	30

TUBING SIZE	A-INSULATION THICKNESS				
	1/2	3/4	1	1 1/2	2
1/2	0	1	2	4	5
3/4	0	1	2	4	6
1	1	2	3	4	6
1 1/4	1	2	3	5	7
1 1/2	2	3	3	5	7
2	3	4	4	6	8
2 1/2	4	5	5	7	8
3	5	6	6	8	9
3 1/2	6	7	7	8	9
4	7	7	8	9	10
5	8	8	9	10	13
6	9	9	10	13	14

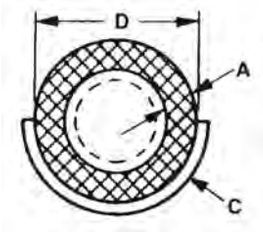
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ATLAS ANCHOR

FIG. 167MSS
"MSS" PIPE COVERING PROTECTION SHIELD

M.B.E. (Minority Business Enterprise)

Manufactured in the USA





Material:	Pre-galvanized carbon steel, also available in 304 and 316 stainless steel.
Finish:	Pre-galvanized.
Service:	Designed for outside of foam or fiberglass insulation on stationary pipe lines (not designed for pipe rollers) to prevent crushing of insulation without breaking the vapor barrier.
Approvals:	Complies with Federal Specifications WW-H-171-E (Type# 26), A-A-1192 A (Type# 26), and MSS SP-58 and SP-69 (Type# 26).
Ordering:	Specify shield size and figure number.
Notes:	Also available in 304 stainless steel.

MISCELLANEOUS

SIZE NO. SHIELD	B LENGTH	C STOCK SIZE	SHIELD ID/ INSULATION OD	HANGER SIZE	WEIGHT EACH (lbs)
X1A	12	18ga	1 7/8	1 1/2	0.53
1A			2 3/8	2	0.68
2A			2 7/8	2 1/2	0.82
3A			3 1/2	3	1.02
4A			4	3 1/2	1.13
5A			4 1/2	4	1.26
6A			5	5	1.42
7A			5 9/16	5	1.58
8A		16ga	6 5/8	6	2.33
9A			7 5/8	7	2.66
10A			8 5/8	8	3.00
9B	18		7 5/8	7	3.99
10B			8 5/8	8	4.49
11B			9 5/8	10	5.03
12B			10 3/4	10	5.62
13C	24	14ga	11 3/4	12	10.12
14C			12 3/4	12	10.94
15C			14	14	12.03
16C			15	16	12.92
17C			16	16	13.74
18C			17	18	14.63
19C		12ga	18	18	21.33
20C			19	20	22.56
21C			20	20	23.79
22C			21	24	24.92
23C			22	24	26.15
24C			23	24	27.37
25C			24	24	28.51
26C			26	30	30.87
27C			27	30	32.09
28C			28	30	33.22

(additional charts on the following page)

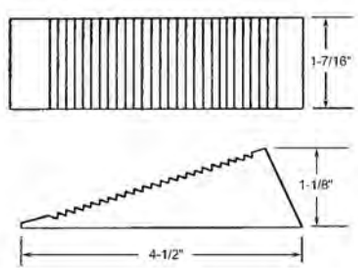
FIG. 167MSS "MSS" PIPE COVERING PROTECTION SHIELD

(continued from previous page)

SHIELD SIZE SELECTION FOR NORMAL PIPE					
PIPE SIZE	A-INSULATION THICKNESS				
	1/2	3/4	1	1 1/2	2
1/2	1A	1A	—	—	—
3/4	1A	2A	3A	4A	6A
1	1A	2A	3A	5 A	7A
1 1/4	2A	3A	4A	6A	7A
1 1/2	2A	3A	4A	6A	8A
2	3A	4A	5A	7A	8A
2 1/2	4A	5A	—	8A	9A
3	5A	6A	7A	8A	9A
3 1/2	—	—	8A	9A	10A
4	—	—	8A	9A	10A
5	—	—	9A/9B	10A/10B	11B
6	—	—	10A/10B	11B	12B
8	—	—	12B	13C	14C
10	—	—	14C	15C	16C
12	—	—	16C	17C	18C
14	—	—	17C	18C	19C
16	—	—	19C	20C	21C
18	—	—	21C	22C	23C
20	—	—	23C	24C	25C
24	—	—	26C	27C	28C

SHIELD SIZE SELECTION FOR NORMAL PIPE					
TUBING SIZE	A-INSULATION THICKNESS				
	1/2	3/4	1	1 1/2	2
1/2	X1A	1A	2A	4A	5A
3/4	X1A	1A	2A	4A	6A
1	1A	2A	3A	5A	7A
1 1/4	1A	2A	3A	5A	7A
1 1/2	2A	3A	4A	6A	8A
2	3A	4A	5A	7A	8A
2 1/2	4A	5A	6A	8A	8A
3	5A	6A	7A	8A	9A
3 1/2	6A	7A	8A	8A	9A/9B
4	7A	8A	8A	9A	10A/10B
5	8A	8A	9 A	10A	11B
6	9A	9A	10A	11B	12B

FIG. 200
BATH TUB WEDGE



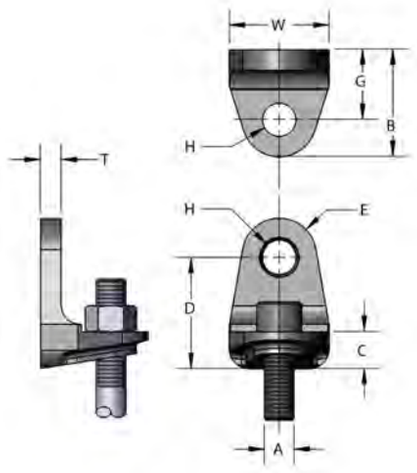
Material: Malleable iron.

Service: Used for leveling and shimming tubs during and after installation.

Ordering: Specify figure number.

WEIGHT EACH (lbs)
0.80

FIG. 202
SIDE BEAM BRACKET



Material: Malleable iron.

Finish: Plain.

Service: Designed for attaching hanger rod to the side of steel or wooden beams.

Approvals: Complies with Federal Specifications WW-H-171-E (Type# 35), A-A-1192 A (Type# 35), and MSS SP-58 and SP-69 (Type# 35).

Ordering: Specify rod size and figure number.

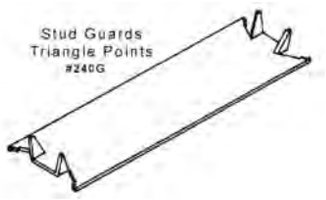
SIZE A	PIPE SIZE	B	C	D	E	H	T	W	WEIGHT EACH (lbs)
3/8-16	1/2 to 2	1 5/16	9/16	1 1/2	1/2	15/16	1/4	1 5/16	0.27
1/2-13	2 1/2 to 3 1/2	1 13/16	5/8	1 7/8	5/8	9/16	5/16	1 5/8	0.48

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FIG. 240
STUD GUARD, TRIANGLE POINT
FIG. 245
STUD GUARD, TWIST POINT

M.B.E. (Minority Business Enterprise)

Manufactured in the USA





Material: Carbon steel.

Finish: Pre-galvanized.

Service: Designed to protect piping and electrical lines that pass though wood framing from damage due to penetration from drywall or other fasteners. Simple installation with a hammer.

Ordering: Specify size & figure number.

PART NUMBER	GAUGE	SIZE WIDTH x LENGTH	STYLE	WGT EACH (lbs)
240G	18	1 1/2 x 3	TRIANGLE POINT	0.06
		1 1/2 x 5		0.10
		1 1/2 x 6		0.12
245G	19	1 1/2 x 3	TWIST POINT	0.06
		1 1/2 x 6		0.11

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M.B.E. (Minority Business Enterprise)

Manufactured in the USA

FIG. 241 NAIL PLATE (NON-FHA)

FIG. 243 NAIL PLATE (FHA)

Material: Carbon steel.

Finish: Pre-galvanized.

Service: Designed to protect piping and electrical lines that pass through metal framing from damage due to penetration from drywall or other fasteners. Attach with metal framing screws.

Ordering: Specify size, gauge and figure number.





MISCELLANEOUS

PROTECTIVE PLATES (NON FHA) --241G SERIES		
GAUGE	SIZE WIDTH x LENGTH	WGT EACH (lbs)
18	1 1/2 x 3	0.065
	1 1/2 x 6	0.125

PROTECTIVE PLATES (FHA) -- 243G SERIES		
GAUGE	SIZE WIDTH x LENGTH	WGT EACH (lbs)
18	1 1/2 X 9	0.180
	1 1/2 X 12	0.250
	1 1/2 X 18	0.380
	1 1/2 X 24	0.500
	3 X 6	0.250
	3 X 9	0.380
	3 X 12	0.520
	3 X 18	0.780
16	1 1/2 X 9	0.240
	1 1/2 X 12	0.320
	1 1/2 X 18	0.480
	1 1/2 X 24	0.640
13	1 1/2 X 9	0.350
	1 1/2 X 12	0.470
	1 1/2 X 18	0.700
	1 1/2 X 24	0.980

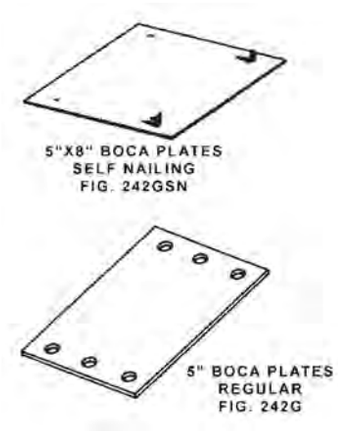
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Manufactured in the USA

FIG. 242G (REGULAR)
FIG. 242GSN (SELF NAILING) BOCA SAFETY PLATE



Material: Carbon steel.

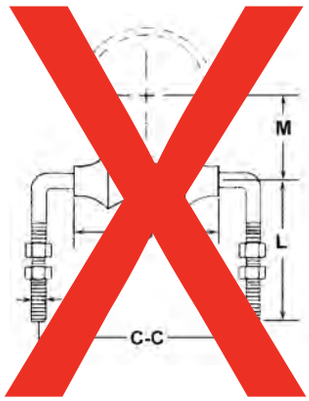
Finish: Pre-galvanized.

Service: Designed to protect piping and electrical lines that pass through metal framing from damage due to penetration from drywall or other fasteners. Should attach with metal framing screws.

Ordering: Specify regular or self nailing style and figure number.

PART NUMBER	GAUGE	SIZE WIDTH x LENGTH	STYLE	WGT EACH (lbs)
242G	16	5 x 8	Regular (holes) Self Nailing	0.70
242GSN				

FIG. 271
ADJUSTABLE ROLLER SUPPORT



Material:	Carbon steel rod with cast iron roller.
Finish:	Plain, galvanized or painted.
Service:	Designed for support of pipe where longitudinal movement of pipe may occur due to expansion and contraction, and where vertical adjustment may be necessary.
Ordering:	Specify roller size, figure number and finish. Please remember to consider insulation thickness when sizing rollers.
Notes:	**Available domestic**

Discontinued

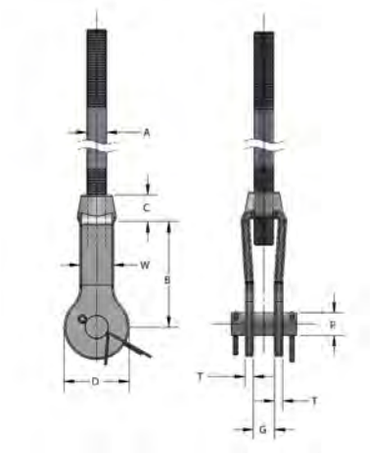
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M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

Manufactured in the USA Excluding 909I

FIG. 909
FORGED STEEL CLEVIS, DOMESTIC
FIG. 909I
FORGED STEEL CLEVIS



Material: Forged steel, also available in 304 and 316 stainless steel.

Finish: Plain, electro-galvanized, or hot-dip galvanized.

Service: Designed for use on high temperature piping installations.

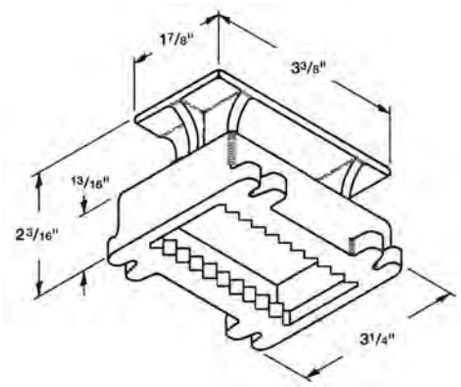
Approvals: Complies with Federal Specification WW-H-171-E (Type# 14), A-A-1192A (Type# 14) and Manufacturers' Standardization Society MSS SP 58 and SP 69 (Type# 14).

Ordering: Specify size number, rod size, finish and part number. If other than standard dimension sizes required, specify size number, rod size, pin size and grip.

Notes: Forged clevis are standardly supplied with pin and cotter pins. When figure number 909 I is supplied hot-dip galvanized the threading is not tapped oversize.

SIZE A	CLEVIS SIZE NO.	B	C	D	G GRIP	P PIN DIA.	T	W	WGT EACH (lbs)	MAX REC LOAD (lbs)	
										650°F	750°F
3/8-16	2	3 9/16	5/8	1 7/16	1/2	1/2	5/16	1 1/16	1.0	610	540
1/2-13	2	3 9/16	5/8	1 7/16	1/2	5/8	5/16	1 1/16	1.0	1130	1010
5/8-11	2	3 9/16	5/8	1 7/16	5/8	3/4	5/16	1 1/16	1.1	1810	1610
3/4-10	2 1/2	4	1	2 1/2	3/4	7/8	5/16	1 1/4	2.3	2710	2420
7/8-9	2 1/2	4	1	2 1/2	7/8	1	5/16	1 1/4	2.5	3770	3360
1-8	3	5 1/16	1 1/4	3	1	1 1/8	1/2	1 1/2	5.1	4960	4420
1 1/8-7	3 3 1/2 4	5 1/16	1 1/4	3	1 1/8	1 1/4	1/2	1 1/2	5.2	6230	5560
1 1/4-7		5 1/16	1 1/4	3	1 1/4	1 3/8	1/2	1 1/2	5.6	8000	7140
1 1/2-6		6	1 1/2	3 1/2	1 1/2	1 5/8	1/2	1 3/4	8.1	11630	10370
1 3/4-5		6	1 3/4	4	1 3/4	1 7/8	1/2	2	9.0	14700	14000

FIG. 982
MALLEABLE CONCRETE INSERT BOX



Material: Malleable iron body and nut.

Finish: Black or galvanized.

Approvals: The 3/8" rod size is Underwriters Laboratories listed and Factory Mutual approved for use with up to 4" size pipe while the 1/2" through 7/8" rod sizes are listed/approved for use with up to 8" size pipe. Complies with Federal Specification WW-H-171E (Type 18) and Manufacturers Standardization Society SP-69 (Type 18).

Features:

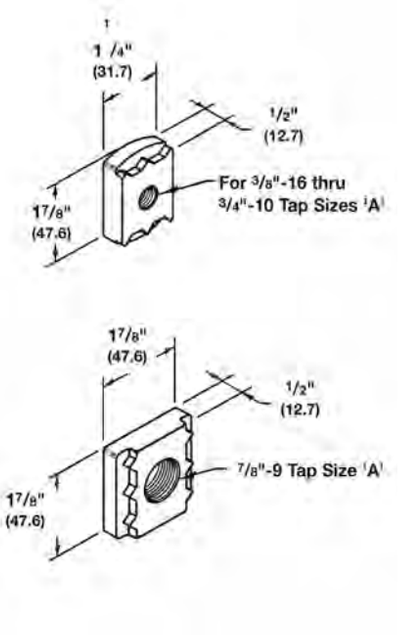
- Cast body prevents concrete seepage.
- Opening in top of insert provides for use of reinforcing rods up to 7/8" in diameter. Sides of insert are recessed for reinforcing rods up to 1" in diameter.
- Low height, broad flat bottom and widely separated nail slots minimize displacement during constructions.
- The nut, held in place by V-type teeth on both insert and nut, can be raised and moved from side to side providing for lateral adjustment.
- Rod is locked in place by screwing it firmly against the top of the recess.
- One body size.

Ordering: Specify figure number, name, size of nut tapping of nut is required.

	NUT SIZE	MAXIMUM RECOMMENDED LOAD (lbs)*	WEIGHT (approx.) LBS EACH
INSERT COMPLETE WITH NUT	3/8	610	1.5
	1/2	1130	1.5
	5/8	1140	1.5
	3/4	1140	1.5
	7/8	1140	1.5
INSERT ONLY	—	—	1.3
NUT ONLY	3/8	—	.20
	1/2	—	.21
	5/8	—	.20
	3/4	—	.22
	7/8	—	.21

* Based on insert and nut only. Rating is subject to the condition that the concrete used is of sufficient strength to hold the insert.

FIG. 983
MALLEABLE IRON INSERT NUT



Material: Malleable Iron

Finish: Plain or Electro-Plated

Service: Designed for use with Fig.# 982 Malleable Iron Insert.

Ordering: Specify size and finish.

TAP SIZE 'A'	DESIGN LOAD		WT./C	
	LBS	kN	LBS	kg
3/8"-16	610	(2.71)	22	(10.0)
1/2"-13	1130	(5.02)	22	(10.0)
5/8"-11	1140	(5.07)	20	(9.1)
3/4"-10	1140	(5.07)	19	(8.6)
7/8"-9	1140	(5.07)	29	(13.1)

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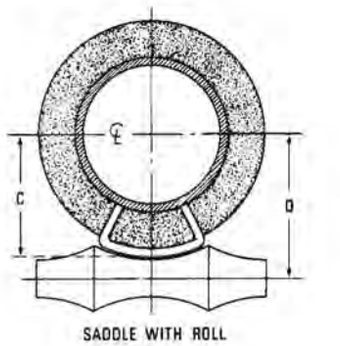
ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)



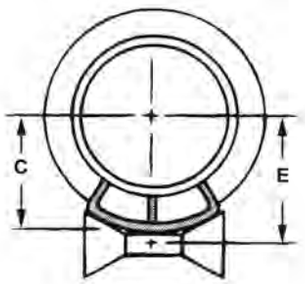
Manufactured in the USA

FIG. 1900 (1" INSULATION)
FIG. 1901 (1½" INSULATION)
FIG. 1902 (2" INSULATION)
FIG. 1903 (2½" INSULATION)
FIG. 1904 (3" INSULATION)
FIG. 1905 (4" INSULATION)
PIPE COVERING PROTECTION SADDLES



SADDLE WITH ROLL

Material:	Carbon steel, also available in 304 and 316 stainless steel.
Finish:	Plain, electro-galvanized.
Service:	Designed for use on insulated high temperature pipe lines to protect insulation from damage and minimize heat loss.
Approvals:	Complies with Federal Specification WW-H-171-E (Type# 40A and 40B), A-A- 1192A (Type# 39A and 39B) and Manufacturers' Standardization Society MSS SP 58 and SP 69 (Type#39Aand 39B).
Ordering:	Specify pipe size, insulation size and/or figure number.
Notes:	All saddles are 12 inches long with side edges beveled in. Stainless steel and alloy saddles are available and priced on application.



(Charts on following 3 pages)



FIG. 1900-1905 PIPE COVERING PROTECTION SADDLES
(continued from previous page)

PIPE SIZE	FIG. NO.	ACTUAL THICKNESS OF COVERING	HANGER ROLLER SIZE USE WITH FIG. NO.			CENTER LINE OF PIPE TO OUTSIDE OF SADDLE, C	CENTER LINE OF PIPE TO CENTER LINE OF ROLL, D	CENTER LINE OF PIPE TO CENTER LINE OF ROLL, E	WGT EACH (lbs)	MAX REC LOAD (lbs)
			273 275 277	272	279-S					
3/4	1900	7/8	2	2 1/2	2-3 1/2	1 9/16	1 15/16	2 1/4	0.93	1200
	1901	1 7/16	3	3 1/2		2 1/8	2 5/8	2 7/8	1.74	1200
	1902	2 1/16	4	5		2 3/4	3 3/8	3 3/8	2.60	1200
1	1900	1 1/16	2 1/2	3		1 13/16	2 1/4	2 7/16	0.93	1200
	1901	1 9/16	3	4		2 7/16	2 15/16	3	1.74	1200
	1902	2 1/8	4	5		2 7/8	3 1/2	3 1/2	2.60	1200
1 1/4	1900	7/8	2 1/2	3		1 15/16	2 1/2	2 9/16	1.32	1200
	1901	1 5/8	3 1/2	5		2 9/16	3 1/8	3 3/16	1.82	1200
	1902	2 1/16	5	5		3 1/16	3 11/16	3 11/16	2.60	1200
1 1/2	1900	1	3	3 1/2		2 1/8	2 5/8	2 11/16	1.32	1200
	1901	1 1/2	3 1/2	5		2 11/16	3 1/4	3 5/16	1.82	1200
	1902	2 5/16	5	6	4-6	6 7/16	4 1/8	3 7/8	2.75	1800
	1903	2 13/16	7	7		3 13/16	4 5/8	4 1/2	3.01	1800
2	1900	1 1/16	3 1/2	4	2-3 1/2	2 7/16	3	3 1/16	1.34	1200
	1901	1 9/16	4	5		2 7/8	3 1/2	3 9/16	1.98	1200
	1902	2 1/8	5	6	4-6	3 11/16	4 3/8	4 3/16	2.80	1800
	1903	2 5/8	7	7		3 15/16	4 3/4	4 3/4	3.18	1800
	1904	3 1/8	8	8		4 11/16	5 1/2	5 1/4	3.97	1800
2 1/2	1900	1 1/16	3 1/2	5	2-3 1/2	2 11/16	3 1/4	3 5/16	1.34	1200
	1901	1 7/8	5	6	4-6	3 3/4	4 1/8	3 15/16	1.98	1200
	1902	2 5/16	6	7		3 15/16	4 5/8	4 1/2	2.80	1800
	1903	2 7/8	7	7		4 7/16	5 1/4	5	3.20	1800
	1904	3 3/8	8	10		4 15/16	5 3/4	5 1/2	3.98	1800
3	1900	1	4	5	2-3 1/2	2 15/16	3 1/2	3 9/16	1.48	1200
	1901	1 9/16	5	6	4-6	3 1/2	4 3/16	4 1/4	2.08	1800
	1902	2 1/16	7	7		4 1/8	4 7/8	4 11/16	2.90	1800
	1903	2 9/16	8	8		4 11/16	5 3/8	5 5/16	3.01	1800
	1904	3 1/16	10	10	8-10	5	5 15/16	6 1/16	4.49	1800
3 1/2	1900	1 1/4	5	6	4-6	3 7/16	4	3 15/16	1.48	1200
	1901	1 13/16	7	7		4	4 11/16	4 1/2	2.08	1800
	1902	2 1/4	8	8		4 3/8	5 3/16	5	2.90	1800
	1903	2 3/4	8	10	8-10	4 13/16	5 3/4	5 11/16	3.43	1800
	1904	3 5/16	10	10		5 1/2	6 7/16	6 3/8	4.49	1800

(additional chart on the following page)

FIG. 1900-1905 PIPE COVERING PROTECTION SADDLES

(continued from previous page)

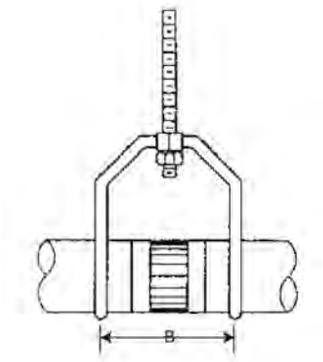
PIPE SIZE	FIG. NO.	ACTUAL THICKNESS OF COVERING	HANGER ROLLER SIZE USE WITH FIG. NO.			CENTER LINE OF PIPE TO OUTSIDE OF SADDLE, C	CENTER LINE OF PIPE TO CENTER LINE OF ROLL, D	CENTER LINE OF PIPE TO CENTER LINE OF ROLL, E	WGT EACH (lbs)	MAX REC LOAD (lbs)
			273 275 277	272	279-S					
4	1900	1–1/16	5	6	4-6	3 9/16	4 3/16	4 3/16	1.58	1800
	1901	1–9/16	7	7		3 7/8	4 11/16	4 3/4	2.14	1800
	1902	2 1/16	8	8		4 11/16	5 1/2	5 1/4	2.95	1800
	1903	2 9/16	8	10	8-10	5 1/8	6 1/16	6	3.43	1800
	1904	3 1/16	10	10		5 9/16	6 1/2	6 5/8	4.49	1800
	1905	4 1/16	12	14		6 9/16	7 11/16	7 9/16	6.09	1800
5	1900	1	7	7	4-6	4 1/8	4 13/16	4 3/4	2.62	1800
	1901	1 1/2	8	8		4 1/2	5 5/16	5 3/8	3.30	1800
	1902	2	8	10	8-10	4 15/16	5 7/8	6 1/8	3.45	1800
6	1900	1	8	8	4-6	4 9/16	5 3/8	5 1/4	3.82	1800
	1901	1 1/2	8	10	8-10	5 1/16	5 7/8	6	4.28	1800
	1902	2	10	12		5 1/2	6 1/2	6 1/2	5.40	1800
	1903	2 1/2	10	12		6 1/16	7 1/16	7 1/4	6.85	1800
	1904	3	12	12		6 9/16	7 5/8	7 5/8	7.69	1800
	1905	4 1/8	14	16	12-14	7 5/8	9 1/8	8 3/4	10.24	1800
8	1901	1 1/2	10	12	8-10	6	7 1/8	7 1/16	5.82	1800
	1902	2	12	12		6 1/2	7 5/8	7 9/16	6.41	1800
	1903	2 11/16	12	14		7 1/4	8 5/16	8 5/16	7.21	1800
	1904	3 1/8	14	16	12-14	7 5/8	9 1/8	8 3/4	9.14	1800
	1905	4 1/8	16	18		8 11/16	10 1/8	9 7/8	10.24	1800
10	1901	1 9/16	12	14	8-10	7 1/4	8 5/16	8 5/16	6.66	1800
	1902	2 1/16	14	16	12-14	7 5/8	9 1/16	8 13/16	8.57	1800
	1903	2 9/16	14	16		8 3/16	9 5/8	9 5/16	8.91	1800
	1904	3 1/16	16	18	16-20	8 7/8	10 1/4	10	11.10	1800
	1905	4 1/16	18	20		9 11/16	11 5/16	11 1/8	14.10	1800
12	1901	1 1/2	14	16	12-14	8 1/16	9 5/8	9 1/4	7.61	5000
	1902	2 1/16	16	18	16-20	813/16	10 3/16	10	8.73	5000
	1903	2 5/8	16	18		91/8	10 11/16	10 1/2	9.69	5000
	1904	3 1/16	18	20		911/16	11 5/16	11	11.38	5000
	1905	4 1/8	20	--		1013/16	12 3/8	12 3/16	14.20	5000
14	1901	1 1/2	16	18	12-14	87/8	10 3/16	10 1/16	7.67	5000
	1902	2	16	18	16-20	91/4	10 3/4	10 11/16	9.43	5000
	1903	2 1/2	18	20		93/4	11 5/16	11 3/16	9.69	5000
	1904	3	18	20		101/4	11 7/8	11 5/8	11.82	5000
	1905	4	20	--	24	117/16	13 1/8	12 5/8	18.48	7200

FIG. 1900-1905 PIPE COVERING PROTECTION SADDLES

(continued from previous page)

PIPE SIZE	FIG. NO.	ACTUAL THICKNESS OF COVERING	HANGER ROLLER SIZE USE WITH FIG. NO.			CENTER LINE OF PIPE TO OUTSIDE OF SADDLE, C	CENTER LINE OF PIPE TO CENTER LINE OF ROLL, D	CENTER LINE OF PIPE TO CENTER LINE OF ROLL, E	WGT EACH (lbs)	MAX REC LOAD (lbs)
			273 275 277	272	279-S					
16	1901	1 1/2	18	20	16-20	9 7/8	11 3/8	11 1/8	8.35	5000
	1902	2				10 1/4	11 7/8	11 9/16	10.00	5000
	1903	2 1/2	20	--		10 7/8	12 7/16	12 3/16	14.62	7200
	1904	3	24	--	24	11 3/16	13 1/8	12 7/16	18.17	7200
	1905	4		--		12 5/16	14 3/16	12 3/16	21.80	7200
18	1901	1 1/2	20	--	16-20	10 7/8	12 1/2	12 3/16	8.92	5000
	1902	2		--	24	11 1/2	13 1/16	12 11/16	13.19	7200
	1903	2 1/2	24	--		12	13 15/16	13 1/16	16.89	7200
	1904	3		--		12 5/16	14 1/4	13 5/8	18.20	7200
	1905	4		--		13 1/2	15 7/16	14 3/4	21.95	7200
20	1901	1 1/2	24	--		11 3/4	13 11/16	13 1/16	13.76	7200
	1902	2		--		12 5/16	14 1/4	13 5/8	14.98	7200
	1903	2 1/2		--		12 7/8	14 13/16	14 3/16	16.79	7200
	1904	3		--		13 1/2	15 1/2	14 3/4	18.40	7200
	1905	4	30	--	30	143/16	16 5/8	15 7/8	22.83	7200
24	1901	1 1/2		--		135/8	16 1/16	15 1/4	16.05	7200
	1902	2		--		143/16	16 5/8	15 3/4	17.62	7200
	1903	2 1/2		--		143/4	17 3/16	16 7/16	18.75	7200
	1904	3		--		153/8	17 13/16	17	19.72	7200
	1905	4		--		169/16	19	19 1/4	23.14	7200

FIG. V6600 SERIES
CAST IRON DWV HANGER



Material: Carbon steel

Finish: Plain

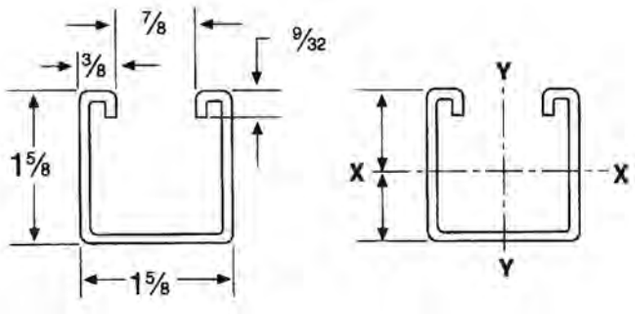
Service: Designed for the suspension of no hub or service weight cast iron pipe.

Ordering: Specify size and figure number.

PIPE SIZE	B	WGT EACH	MAX REC LOAD (lbs)
2	3 7/8	.605	598
3	4 3/4	.675	598
4	4 7/8	.780	598
6	6 1/2	2.100	1108

7000 & 7001

Manufactured in the USA





1-5/8" x 1-5/8"

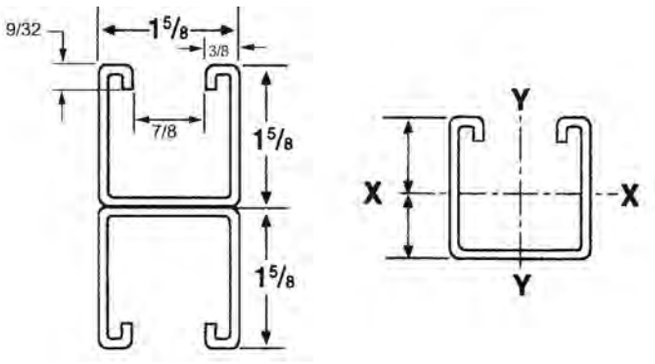
12 GAUGE STRUT SOLID & SLOTTED

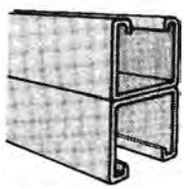
I.T.P. Part #	Finish	Standard Length	Weight Per foot (Lbs.)
7000 (SOLID)	Plain Pre-Galvanized Green Painted	10' or 20'	1.90
7001 (SLOTTED)			1.85
NOTE: 304 and 316 stainless, PVC coated and hot-dipped galvanized are available.			

STRUT

7000A & 7001A

Manufactured in the USA





1-5/8" x 1-5/8"

12 GAUGE BACK-TO-BACK STRUT

SOLID & SLOTTED

I.T.P. Part #	Finish	Standard Length	Weight Per foot (Lbs.)
7000A (SOLID)	Plain Pre-Galvanized Green Painted	10' or 20'	3.80
7001A (SLOTTED)			3.70
NOTE: 304 and 316 stainless, PVC coated and hot-dipped galvanized are available.			

Properties of Section

I.T.P. FIGURE NUMBER	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in 4	S in 3	r in.	I in 4	S in 3	r in.
7000	1.94	.544	0.180	0.195	05.75	0.233	0.287	0.655
7000A	3.88	1.088	0.896	0.570	0.908	0.466	0.574	0.655

I = Moment of Inertia
S = Section Modulus
r = Radius of Gyration

Beam and Column Loads

SPAN OR COLUMN (IN)	I.T.P. FIGURE NUMBER	MAX LOAD OF COLUMN LOADED @ C.G. (LBS)	STATIC BEAM LOAD (X-X AXIS)			
			ALLOWABLE UNIFORM LOAD @ 25,000 PSI (LBS)	DEFLECTION @ 25,000 PSI (IN)	UNIFORM LOAD @ L/240 (LBS)	UNIFORM LOAD @ L/360 (LBS)
12	**7000**	7,109	3,249	0.014	**	**
	7000A	14,862	2,610	0.008	**	**
18	**7000**	6,549	2,166	0.031	**	**
	7000A	14,402	2,610 ***	0.018	**	**
24	**7000**	5,938	1,625	0.055	**	**
	7000A	13,919	2,610 ***	0.032	**	**
30	**7000**	5,337	1,300	0.086	**	1,257
	7000A	13,473	2,610 ***	0.050	**	**
36	**7000**	4,771	1,083	0.124	**	873
	7000A	13,090	2,610 ***	0.072	**	**
42	**7000**	4,242	928	0.169	**	641
	7000A	12,771	2610 ***	0.099	**	**
48	**7000**	3,745	812	0.220	737	491
	7000A	12,511	2,374	0.129	**	**
60	**7000**	3,012	650	0.344	471	314
	7000A	11,685	1,899	0.202	**	1,566
72	**7000**	2,514	542	0.496	327	218
	7000A	10,078	1,582	0.291	**	1,087
84	**7000**	2,136	464	0.675	240	160
	7000A	8,180	1,356	0.396	1,199	799
96	**7000**	1,834	406	0.882	184	123
	7000A	6,291	1,187	0.517	917	611
108	**7000**	1,585	361	1.116	145	97
	7000A	4,971	1,055	0.655	725	483
120	**7000**	*	325	1.378	117	78
	7000A	4,026	949	0.808	587	391
180	**7000**	*	217	3.099	52	35
	7000A	*	633	1.819	261	174
240	**7000**	*	163	5.510	29	19
	7000A	*	474	3.233	147	98

* Not recommended - KL/r exceeds 200

** For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

*** Load limited by spotweld shear

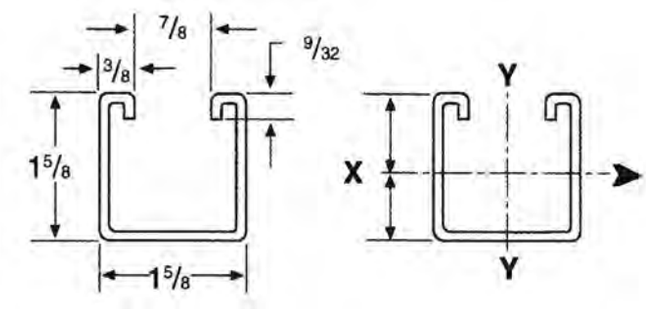
NOTES

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply the following: $^{7}/_{8}$" diameter Knockout by 82%, Round Hole $^{3}/_{4}$" by 85% and Round Hole $^{9}/_{16}$" by 88%, Slotted $^{9}/_{16}$" x 1-$^{1}/_{8}$" by 88%,$^{13}/_{32}$" x 3" by 90%.

7100 & 7101

ATLAS ANCHOR

Manufactured in the USA







1-5/8" x 1-5/8"

14 GAUGE STRUT SOLID & SLOTTED

I.T.P. Part #	Finish	Standard Length	Weight Per foot (Lbs.)
7100 (SOLID)	Plain Pre-Galvanized Green Painted	10' or 20'	1.40
7101 (SLOTTED)			1.36
NOTE: 304 and 316 stainless, PVC coated and hot-dipped galvanized are available.			

Properties of Section

I.T.P. FIGURE NUMBER	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in 4	S in 3	r in.	I in 4	S in 3	r in.
7100	1.45	.407	0.143	0.158	0.593	0.179	0.221	0.664

I = Moment of Inertia
S = Section Modulus
r = Radius of Gyration

Beam and Column Loads

SPAN OR COLUMN (IN)	I.T.P. FIGURE NUMBER	MAX LOAD OF COLUMN LOADED @ C.G. (LBS)	STATIC BEAM LOAD (X-X AXIS)			
			ALLOWABLE UNIFORM LOAD @ 25,000 PSI (LBS)	DEFLECTION @ 25,000 PSI (IN)	UNIFORM LOAD @ L/240 (LBS)	UNIFORM LOAD @ L/360 (LBS)
12	7100	5,548	2,631	0.014	**	**
18	7100	5,066	1,754	0.032	**	**
24	7100	4,473	1,316	0.056	**	**
30	7100	3,817	1,052	0.088	**	**
36	7100	3,141	877	0.126	**	695
42	7100	2,546	752	0.172	**	511
48	7100	2,148	658	0.224	587	391
60	7100	1,659	526	0.350	376	250
72	7100	1,370	439	0.504	261	174
84	7100	1,174	376	0.687	192	128
96	7100	1,028	329	0.897	147	98
108	7100	911	292	1.135	116	77
120	7100	*	263	1,140	94	63
180	7100	*	175	3.153	42	28
240	7100	*	132	5.605	23	16

* Not recommended - KL/r exceeds 200

** For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

***Load limited by spotweld shear

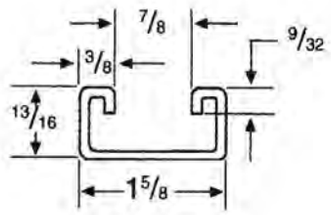
NOTES

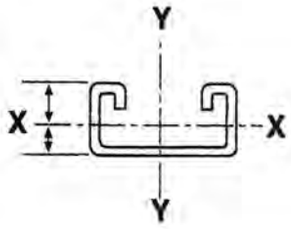
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply the following: $^{7}/_{8}$" diameter Knockout by 82%, Round Hole $^{3}/_{4}$" by 85% and Round Hole $^{9}/_{16}$" by 88%, Slotted $^{9}/_{16}$" x 1-$^{1}/_{8}$" by 88% and Slotted $^{13}/_{32}$" x 3" by 90%.

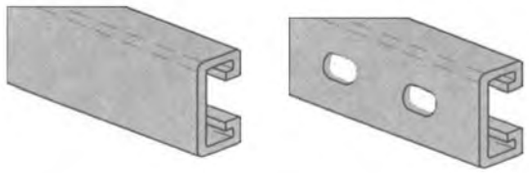
7200 & 7201

ATLAS ANCHOR

Manufactured in the USA







$^{13}/_{16}$" x 1-$^{5}/_{8}$"

14 GAUGE STRUT SOLID & SLOTTED

I.T.P. Part #	Finish	Standard Length	Weight Per foot (Lbs.)
7200 (SOLID)	Plain Pre-Galvanized Green Painted	10' or 20'	.97
7201 (SLOTTED)			.87
NOTE: 304 and 316 stainless, PVC coated and hot-dipped galvanized are available.			

Properties of Section

I.T.P. FIGURE NUMBER	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in 4	S in 3	r in.	I in 4	S in 3	r in.
7200	1.03	0.286	0.025	0.053	0.298	0.106	0.131	0.610

I = Moment of Inertia
S = Section Modulus
r = Radius of Gyration

Beam and Column Loads

SPAN OR COLUMN (IN)	I.T.P. FIGURE NUMBER	MAX LOAD OF COLUMN LOADED @ C.G. (LBS)	STATIC BEAM LOAD (X-X AXIS)			
			ALLOWABLE UNIFORM LOAD @ 25,000 PSI (LBS)	DEFLECTION @ 25,000 PSI (IN)	UNIFORM LOAD @ L/240 (LBS)	UNIFORM LOAD @ L/360 (LBS)
12	**7200**	3,598	887	0.027	**	**
18	**7200**	3,340	591	0.060	**	493
24	**7200**	3,086	444	0.106	416	277
30	**7200**	2,854	355	0.166	266	177
36	**7200**	2,654	296	0.240	185	123
42	**7200**	2,449	254	0.327	136	91
48	**7200**	2,259	222	0.427	104	69
60	**7200**	*	177	0.667	66	14
72	**7200**	*	148	0.960	46	31
84	**7200**	*	127	1.037	34	23
96	**7200**	*	111	1.707	26	17
108	**7200**	*	99	2.160	21	14
120	**7200**	*	89	2.668	17	11
180	**7200**	*	59	6.003	7	5
240	**7200**	*	44	10.672	4	3

* Not recommended - KL/r exceeds 200

** For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

*** Load limited by spotweld shear

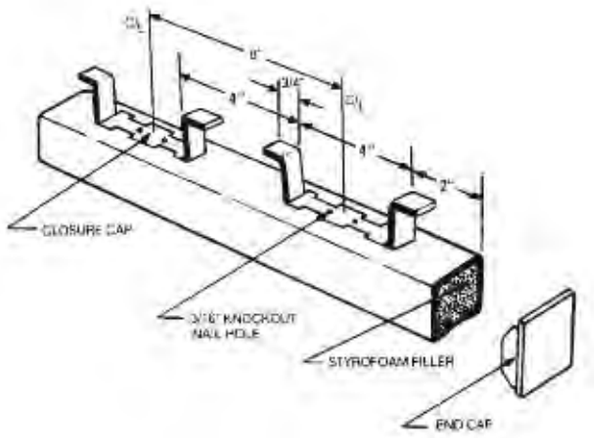
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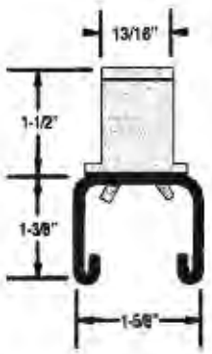
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply the following: $^{7}/_{8}$" diameter Knockout by 82%, Round Hole $^{3}/_{4}$" by 85% and Round Hole $^{9}/_{16}$" by 88%, Slotted $^{9}/_{16}$" x 1-$^{1}/_{8}$" by 88% and Slotted $^{13}/_{32}$" x 3" by 90%.

7225

ATLAS ANCHOR

Manufactured in the USA





$1\text{-}^{3}/_{8}$" x $1\text{-}^{5}/_{8}$"

12 GAUGE CONTINUOUS CONCRETE INSERT

STRUT

I.T.P. Part#	Finish	Standard Length
7225	Plain Pre-Galvanized	10' or 20' Other lengths available

FEATURES:

- Loading data was calculated in a concrete mixture which was proportioned so that the compression strength of the concrete was 2,500 to 3,000 pounds per square inch and that the load is dependent on the surrounding concrete.
- Tests were performed with a safety factor of 3, and in accordance with the MFMA Specifications.
- Concrete inserts are supplied with an end cap and either a styrofoam filler or plastic strip installed in the insert channel to prevent concrete seepage.
- Inserts should be secured to forms at 16" intervals.
- When ordering, please indicate finish and either foam filler, or plastic closure.

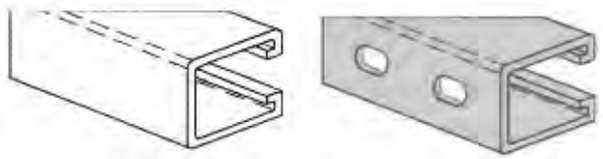
I.T.P. FIGURE NUMBER	Length/ Inch	Weight C. Pcs.	Max. Allowable Load Per Section
7225	3	87	500
7225	4	103	800
7225	6	134	1000
7225	8	206	1200
7225	12	188	2000
7225	18	282	2000
7225	24	376	2000
7225	30	470	2000
7225	36	564	2000
7225	48	752	2000
7225	60	940	2000
7225	72	1128	2000
7225	84	1316	2000
7225	96	1504	2000
7225	108	1692	2000
7225	120	1880	2000
7225	240	3760	2000

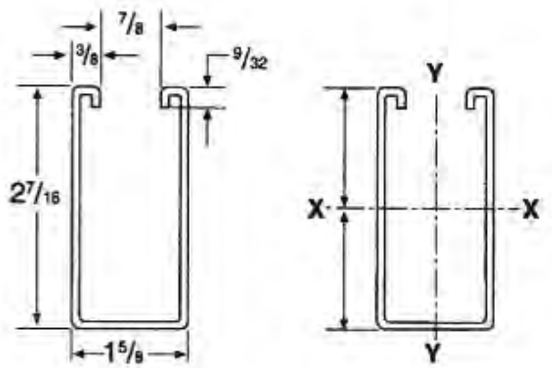
ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

7230 & 7231

Manufactured in the USA





2-7/16" x 1-5/8"

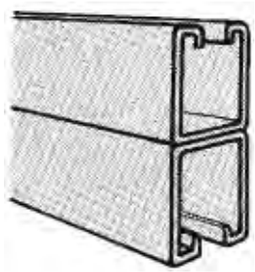
12 GAUGE STRUT SOLID & SLOTTED

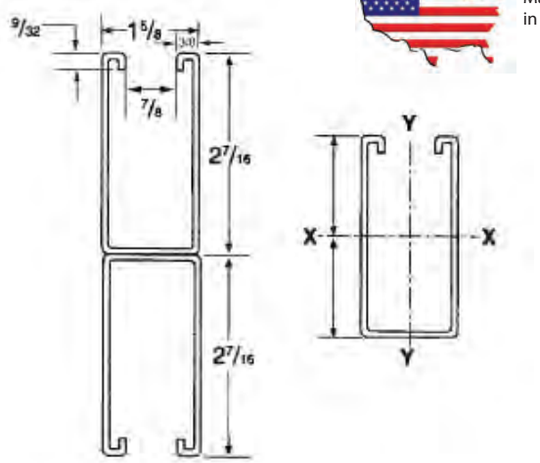
I.T.P. Part #	Finish	Standard Length	Weight Per foot (Lbs.)
7230 (SOLID)	Plain Pre-Galvanized Green Painted	10' or 20'	2.59
7231 (SLOTTED)			2.52
NOTE: 304 and 316 stainless, PVC coated and hot-dipped galvanized are available.			

STRUT

7241 & 7240

Manufactured in the USA





2-7/16" x 1-5/8"

12 GAUGE BACK-TO-BACK STRUT

SOLID & SLOTTED

I.T.P. Part #	Finish	Standard Length	Weight Per foot (Lbs.)
7241 (SOLID)	Plain Pre-Galvanized Green Painted	10' or 20'	5.04
7240 (SLOTTED)			5.18
NOTE: 304 and 316 stainless, PVC coated and hot-dipped galvanized are available.			

Properties of Section

I.T.P. FIGURE NUMBER	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in 4	S in 3	r in.	I in 4	S in 3	r in.
7230	2.54	0.714	0.509	0.378	0.844	0.331	0.408	0.681
7240	5.08	1.142	2.721	1.141	1.381	0.663	0.815	0.681

I = Moment of Inertia

S = Section Modulus

r = Radius of Gyration

Beam and Column Loads

SPAN OR COLUMN (IN)	I.T.P. FIGURE NUMBER	MAX LOAD OF COLUMN LOADED @ C.G. (LBS)	STATIC BEAM LOAD (X-X AXIS)			
			ALLOWABLE UNIFORM LOAD @ 25,000 PSI (LBS)	DEFLECTION @ 25,000 PSI (IN)	UNIFORM LOAD @ L/240 (LBS)	UNIFORM LOAD @ L/360 (LBS)
12	7230	9,774	6,305	0.009	**	**
	7240	20,586	3,880 ***	0.005	**	**
18	7230	8,861	4,203	0.021	**	**
	7240	19,931	3,880 ***	0.012	**	**
24	7230	7,744	3,125	0.038	**	**
	7240	19,144	3,880 ***	0.021	**	**
30	7230	6,524	2,522	0.059	**	**
	7240	18,304	3,880 ***	0.033	**	**
36	7230	5,275	2,102	0.085	**	**
	7240	17,474	3,880 ***	0.048	**	**
42	7230	4,284	1,801	0.116	**	**
	7240	16,693	3,880 ***	0.065	**	**
48	7230	3,629	1,576	0.151	**	1,390
	7240	15,981	3,880 ***	0.085	**	**
60	7230	2,824	1,261	0.236	**	890
	7240	14,790	3,803	0.133	**	**
72	7230	2,346	1,051	0.340	927	618
	7240	13,881	3,169	0.192	**	**
84	7230	2,021	901	0.463	681	454
	7240	12,054	2,716	0.261	**	2,427
96	7230	1,778	788	0.605	521	347
	7240	9,409	2,377	0.341	**	1,858
108	7230	1,584	701	0.765	412	275
	7240	7,434	2,113	0.431	**	1,468
120	7230	1,422	630	0.945	334	222
	7240	6,022	1,901	0.532	1,784	1,189
180	7230	*	420	2.126	148	99
	7240	*	1,268	1.199	793	529
240	7230	*	315	3.780	83	56
	7240	*	951	2.131	446	297

* Not recommended - KL/r exceeds 200

** For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

*** Load limited by spotweld shear

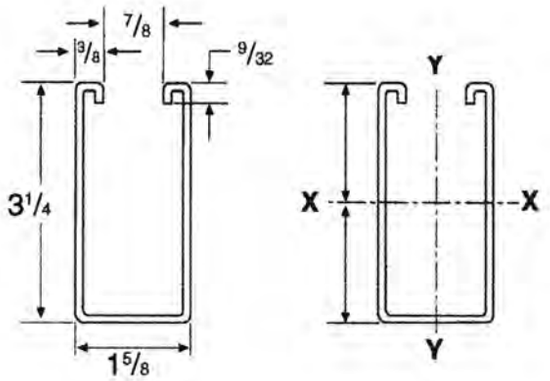
NOTES

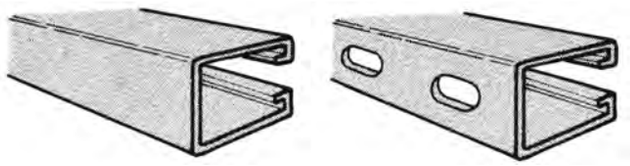
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply the following: $^{7}/_{8}$" diameter Knockout by 82%, Round Hole $^{3}/_{4}$" by 85% and Round Hole $^{9}/_{16}$" by 88%, Slotted $^{9}/_{16}$" x 1-$^{1}/_{8}$" by 88% and Slotted $^{13}/_{32}$" x 3" by 90%.

7250 & 7251

ATLAS ANCHOR

Manufactured in the USA





3-1/4" x 1-5/8"

12 GAUGE STRUT SOLID & SLOTTED

I.T.P. Part #	Finish	Standard Length	Weight Per foot (Lbs.)
7250 (SOLID)	Plain Pre-Galvanized Green Painted	10' or 20'	3.13
7251 (SLOTTED)			3.08
NOTE: 304 and 316 stainless, PVC coated and hot-dipped galvanized are available.			

Properties of Section

I.T.P. FIGURE NUMBER	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in 4	S in 3	r in.	I in 4	S in 3	r in.
7250	3.13	.844	1.073	0.609	1.102	0.429	0.529	0.697

I = Moment of Inertia

S = Section Modulus

r = Radius of Gyration

Beam and Column Loads

SPAN OR COLUMN (IN)	I.T.P. FIGURE NUMBER	MAX LOAD OF COLUMN LOADED @ C.G. (LBS)	STATIC BEAM LOAD (X-X AXIS)			
			ALLOWABLE UNIFORM LOAD @ 25,000 PSI (LBS)	DEFLECTION @ 25,000 PSI (IN)	UNIFORM LOAD @ L/240 (LBS)	UNIFORM LOAD @ L/360 (LBS)
12	7250	12,428	10,155	0.007	**	**
18	7250	11,161	6,770	0.016	**	**
24	7250	9,531	5,077	0.029	**	**
30	7250	7,642	4,062	0.045	**	**
36	7250	5,767	3,385	0.065	**	**
42	7250	4,550	2,901	0.088	**	**
48	7250	3,754	2,539	.115	**	**
60	7250	2,830	2,031	0.180	**	1,876
72	7250	2,268	1,692	0.260	**	1,303
84	7250	1,972	1,451	0.354	1,436	957
96	7250	1,688	1,269	0.462	1,099	733
108	7250	1,509	1,128	0.585	869	579
120	7250	1,366	1,015	0.722	703	469
180	7250	*	667	1.624	313	208
240	7250	*	508	2.887	176	117

* Not recommended - KL/r exceeds 200

** For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

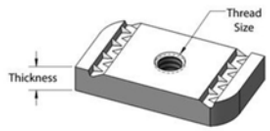
*** Load limited by spotweld shear

NOTES

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply the following: $^{7}/_{8}$" diameter Knockout by 82%, Round Hole $^{3}/_{4}$" by 85% and Round Hole $^{9}/_{16}$" by 88%, Slotted $^{9}/_{16}$" x 1-$^{1}/_{8}$" by 88% and Slotted $^{13}/_{32}$" x 3" by 90%.

8000

STRUT NUT WITHOUT SPRING

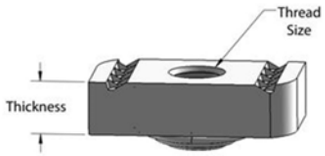


Material: Electro-galvanized carbon steel. Also available in 316 stainless steel.

Rod (Thread) Size	Thickness	Weight Each (lbs)
#8-32	1/4"	0.06
#10-24		0.06
#10-32		0.06
1/4"		0.06
5/16"	3/8"	0.09
3/8"		0.09
7/16"		0.09
1/2"		0.09
5/8"	1/2"	0.13
3/4"		0.13
7/8"		0.13

8050

STRUT NUT WITH SHORT SPRING

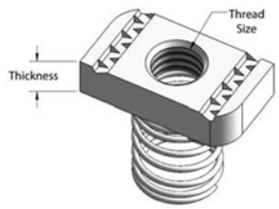


Material: Electro-galvanized carbon steel. Also available in 316 stainless steel.

Rod (Thread) Size	Thickness	Weight Each (lbs)
#8-32	1/4"	0.07
#10-24		0.07
#10-32		0.07
1/4"		0.07
5/16"	3/8"	0.06
3/8"		0.09
7/16"		0.09
1/2"		0.09
5/8"	1/2"	0.10

8100

STRUT NUT WITH REGULAR SPRING



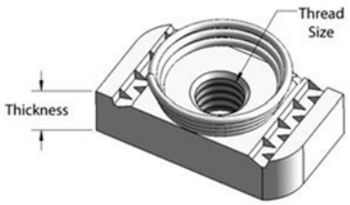
Material: Electro-galvanized carbon steel. Also available in 316 stainless steel.

Note: To be used on 1-3/8" and 1-5/8" strut.

Rod (Thread) Size	Thickness	Weight Each (lbs)
#8-32	1/4"	0.075
#10-24		0.075
#10-32		0.075
1/4"		0.070
5/16"	3/8"	0.100
3/8"		0.100
7/16"		0.100
1/2"		0.120
5/8"	1/2"	0.150
3/4"		0.150
7/8"		0.150

8150

TOP SPRING STRUT NUT



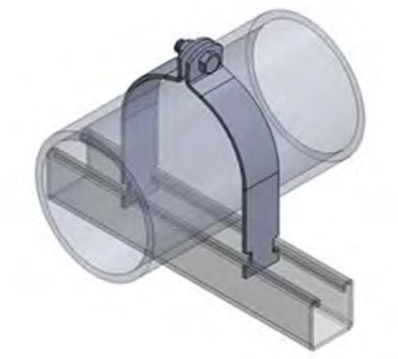
Rod (Thread) Size	Thickness	Weight Each (lbs)
#8-32	1/4"	0.07
#10-24		0.07
#10-32		0.07
1/4"		0.07
5/16"	3/8"	0.10
3/8"		0.10
1/2"		0.12

Material: Electro-galvanized carbon steel. Also available in 316 stainless steel.

Note: Not to be used on 13/16" or 1" strut.

8200 & 8200SS

RIGID IPS STRUT CLAMP ASSEMBLED



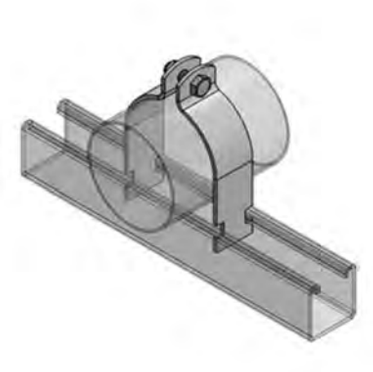
Pipe Size	Pipe OD	Max Rec Load (lbs)	Weight Each (lbs)
3/8"	0.675	400	0.10
1/2"	0.840		0.10
3/4"	1.050	600	0.15
1"	1.315		0.17
1-1/4"	1.660		0.18
1-1/2"	1.900	800	0.29
2"	2.375		0.34
2-1/2"	2.875		0.40
3"	3.500		0.47
3-1/2"	4.000	1000	0.62
4"	4.500		0.67
5"	5.563		0.80
6"	6.625		1.02
8"	8.625		1.30
10"	10.750		1.43
12"	12.750		1.75

Material: 8200-Electro-galvanized carbon steel 8200SS-304 stainless steel

Also available in 316 stainless steel.

OD Tubing Strut Clamp Assembled

Material: Electro-galvanized carbon steel.
Also available in 304 stainless steel.



Pipe Size	Max Rec Load (lbs)	Weight Each (lbs)	Pipe Size	Max Rec Load (lbs)	Weight Each (lbs)
1/4"	400	0.09	3-3/4"	1000	0.51
3/8"		0.09	3-7/8"		0.52
1/2"		0.07	4"		0.52
5/8"		0.09	4-1/8"		0.53
3/4"		0.13	4-1/4"		0.54
7/8"		0.14	4-3/8"		0.55
1"	600	0.15	4-1/2"	1000	0.55
1-1/8"		0.16	4-5/8"		0.57
1-1/4"		0.18	4-3/4"		0.58
1-3/8"		0.19	4-7/8"		0.60
1-1/2"		0.20	5"		0.62
1-5/8"		0.21	5-1/8"		0.64
1-3/4"	800	0.22	5-1/4"	1000	0.66
1-7/8"		0.22	5-3/8"		0.68
2"		0.23	5-1/2"		0.70
2-1/8"		0.23	5-5/8"		0.72
2-1/4"		0.25	5-3/4"		0.74
2-3/8"		0.26	5-7/8"		0.76
2-1/2"		0.38	6"		0.79
2-5/8"		0.38	6-1/8"		0.83
2-3/4"		0.39	6-1/4"		0.87
2-7/8"		0.40	6-3/8"		0.90
3"		0.42	6-1/2"		0.95
3-1/8"		0.44	6-5/8"		1.02
3-1/4"		0.46	6-3/4"		1.05
3-3/8"		0.48	6-7/8"		1.10
3-1/2"		0.50	7"		1.16
3-5/8"		0.50	8-3/8"		1.25

USE THE FOLLOWING CLAMPS FOR NO-HUB CAST IRON SOIL PIPE

No-Hub Cast Iron Nominal Pipe Size	Use The Following Strut Clamp
1-1/2"	8200 - 1-1/2"
2"	8200 - 2"
3"	8250 - 3-3/8"
4"	8250 - 4-3/8"
5"	8250 - 5-3/8"
6"	8250 - 6-3/8"
8"	8250 - 8-3/8"
10"-12"	CALL

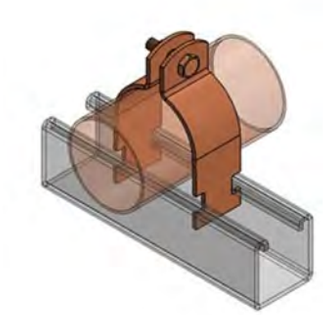
8300CT & 8300CTP

COPPER TUBING STRUT PIPE CLAMP - ASSEMBLED

EPOXY COATED COPPER-GARD (CT) and COPPER PLATED (CTP)

Material: Epoxy coated over electro-galvanized steel (CT).
Copper plated carbon steel (CTP).

Also available in 316 stainless steel.

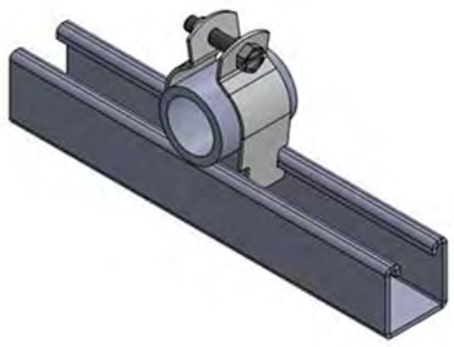


Copper-Gard epoxy products offer superior corrosion protection

Tube Size	Max Rec Load (lbs)	Weight Each (lbs)
3/8"	400	0.09
1/2"		0.10
3/4"		0.12
1"	600	0.15
1-1/4"		0.17
1-1/2"		0.19
2"	800	0.32
2-1/2"		0.37
3"		0.43
3-1/2"	1000	0.56
4"		0.62
5"		0.75
6"		0.96

8350

UNIVERSAL PIPE STRUT CLAMP ASSEMBLED



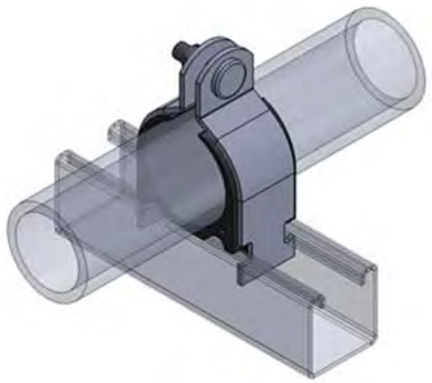
Material: Electro-galvanized carbon steel.

Also available in 316 stainless steel.

Pipe Size	OD SIZE RANGE	Max Rec Load (lbs)	Weight Each (lbs)
3/8"	.557 -. 706	400	0.18
1/2"	.701 - .875		0.20
3/4"	.917 - 1.031		0.22
1"	1.125 - 1.375		0.24
1-1/4"	1.50 - 1.691		0.27
1-1/2"	1.735 - 1.931	600	0.30
2"	2.192 - 2.40		0.35

8500

CUSHION STRUT CLAMP



OD Size	Nom. Tube Size	Weight Each (lbs)
1/4"	1/8"	0.110
3/8"	1/4"	0.110
1/2"	3/8"	0.110
5/8"	1/2"	0.120
3/4"	5/8"	0.130
7/8"	3/4"	0.200
1"	7/8"	0.210
1-1/8"	1"	0.275
1-1/4"	1-1/8"	0.292
1-3/8"	1-1/4"	0.310
1-1/2"	1-3/8"	0.354
1-5/8"	1-1/2"	0.400
1-3/4"	1-5/8"	0.413
1-7/8"	1-3/4"	0.425
2"	1-7/8"	0.454
2-1/8"	2"	0.483
2-3/8"	2-1/4"	0.600
2-5/8"	2-1/2"	0.610
3-1/8"	3"	0.650
4-1/8"	4"	0.900

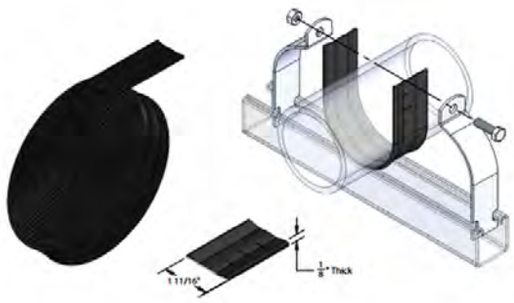
Material: Electro-galvanized steel with thermoplastic insulating liner.

Also available in IPS sizes.

Also available in 316 stainless steel.

8550

CUSHION PIPE WRAP



Material: Elastomer (EPDM)

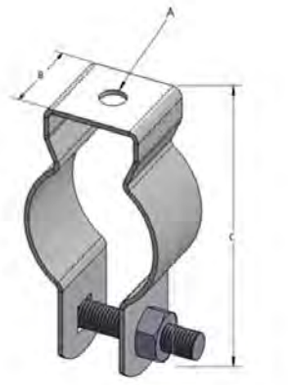
Dimensions: 1/8" thick x 1-11/16" wide.

Weight: 2.50 lbs per roll.

Note: This cushion wrap is designed for use with HVAC, refrigeration and hydraulic lines. Wrap can be cut to size for any pipe material and size. It provides protection from galvanic action between dissimilar metals, as well as absorbs sound and vibration between pipe and mounting materials.
Service temperature -70° to +300° fahrenheit.

8575

CONDUIT CLAMP
with bolt & nut



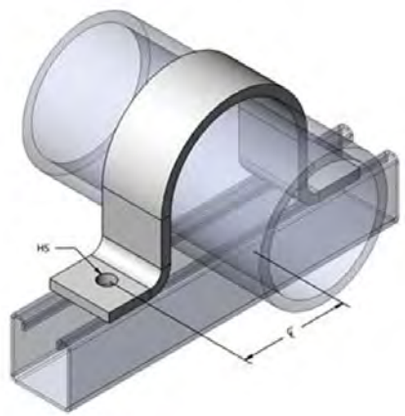
Material: Electro-galvanized carbon steel.

Size	FITS RIGID & PIPE SIZE	FITS EMT	A	B	C	Weight Each (lbs)
1/2"	3/8" & 1/2"	1/2"	1/4"	3/4"	1-7/8"	0.062
3/4"	3/4"	3/4"	1/4"	3/4"	2-1/8"	0.08
1"	1"	1"	1/4"	7/8"	2-9/16"	0.10
1-1/4"	1-1/4"	1-1/2"	1/4"	7/8"	3"	0.11
1-1/2"	1-1/2"	-	1/4"	1"	3-1/8"	0.12
2"	2	2"	5/16"	1-1/4"	3-7/8"	0.23

9110HD

Material: Electro-galvanized carbon steel. SST 316 & 304

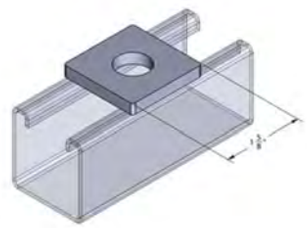
TWO HOLE
HOLD DOWN CLAMP



Pipe Size	HS (in.)	CL (in.)	Weight Each (lbs)
1/2"	5/16"	15/16"	.23
3/4"	5/16"	1"	.26
1"	5/16"	1-1/8"	.31
1-1/4"	5/16"	1-5/16"	.35
1-1/2"	5/16"	1-7/16"	.39
2"	7/16"	2-1/8"	.94
2-1/2"	7/16"	2-3/8"	1.14
3"	7/16"	2-11/16"	1.33
3-1/2"	7/16"	2-15/16"	1.52
4"	9/16"	3-3/16"	1.76
5"	9/16"	3-3/4"	1.98
6"	9/16"	4-1/4"	2.25

9001FF

SQUARE STRUT
WASHER
1-5/8" X 1-5/8"

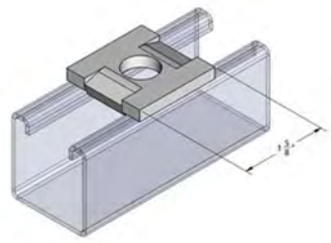


Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"

Rod size	Weight
1/4"	.18
3/8"	.18
1/2"	.17
5/8"	.16
3/4"	.16
7/8"	.15

9002FF

SQUARE WASHER
WITH GUIDES
1-5/8" X 1-5/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"

Rod size	Weight
1/4"	.18
3/8"	.18
1/2"	.17
5/8"	.16
3/4"	.16

9003FF

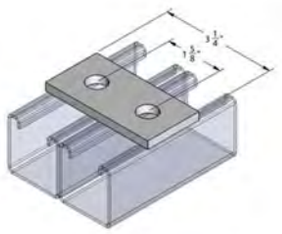
2-HOLE
SPLICE PLATE
1-5/8" X 3-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.37

9004FF

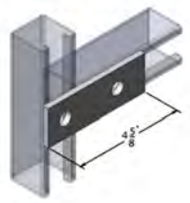
2-HOLE SPLICE PLATE
SIDE TO SIDE STRUT
1-5/8" X 3-1/4"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.34

9005FF

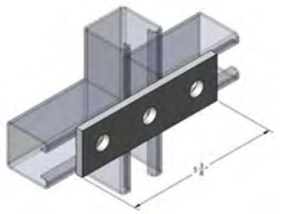
2-HOLE SPLICE PLATE
1-5/8" X 4-5/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.46

9006FF

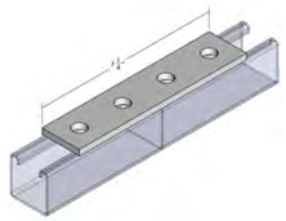
3-HOLE SPLICE PLATE
1-5/8" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.55

9007FF

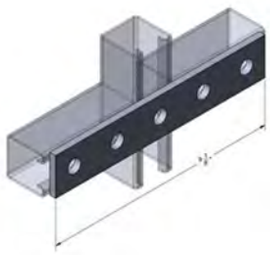
4-HOLE SPLICE PLATE
1-5/8" X 7-1/4"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.76

9008FF

5-HOLE SPLICE PLATE
1-5/8" X 9-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.95

9009FF

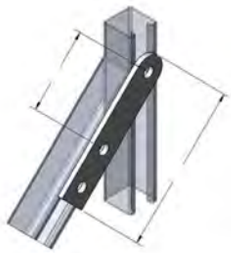
2-HOLE
SWIVEL PLATE
1-5/8" X 5-1/4"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.48

9010FF

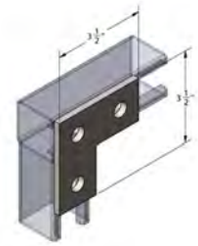
3-HOLE
SWIVEL PLATE
1-5/8" X 7-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.69

9011FF

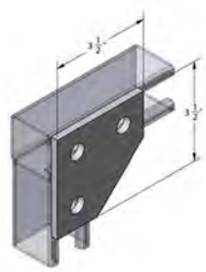
3-HOLE
CORNER PLATE
3-1/2" X 3-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.56

9012FF

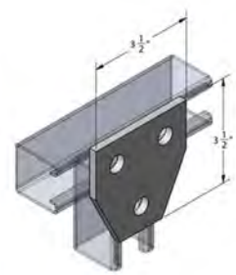
3-HOLE
CORNER GUSSET
3-1/2" X 3-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.70

9013FF

3-HOLE
TEE GUSSET
3-1/2" X 3-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.70

9014FF

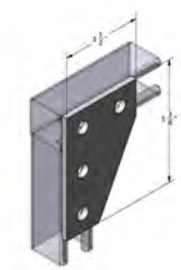
4-HOLE CORNER PLATE
3-1/2" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.75

9015FF

4-HOLE TEE
CORNER GUSSET
3-1/2" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.02

9016FF

4-HOLE TEE PLATE
3-1/2" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.75

9017FF

5-HOLE CROSS PLATE
5-3/8" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.00

9018FF

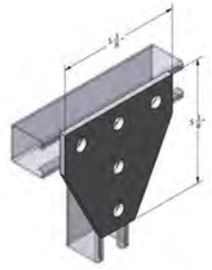
4-HOLE
TEE GUSSET
3-1/2" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.00

9019FF

5-HOLE
TEE GUSSET
5-3/8" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.43

9020FF

5-HOLE
CORNER GUSSET
5-3/8" X 5-3/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.45

9021FF

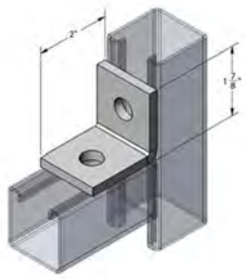
7-HOLE
CROSS GUSSET
5-3/8" X 9-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	2.32

9022CA

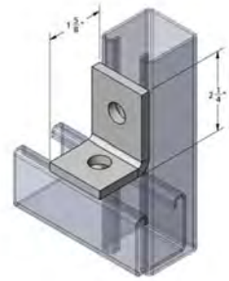
2-HOLE
CORNER ANGLE
1-7/8" X 2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.37

9023CA

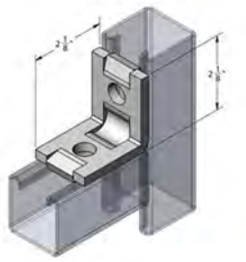
2-HOLE
CORNER ANGLE
1-5/8" X 2 1/4"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.37

9024CA

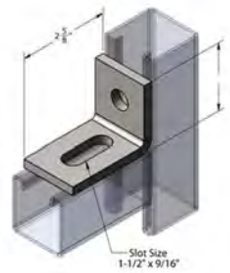
2-HOLE
CORNER ANGLE
2-1/8" X 2-1/8"
WITH GUIDES



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.41

9025CA

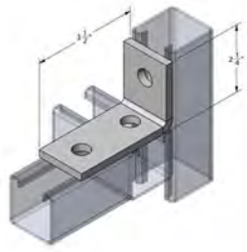
1-HOLE
ADJUSTABLE CORNER
ANGLE WITH SLOT
1-7/8" X 2-5/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.38

9026CA

3-HOLE
CORNER ANGLE
2-1/4" X 3-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.56

9027CA

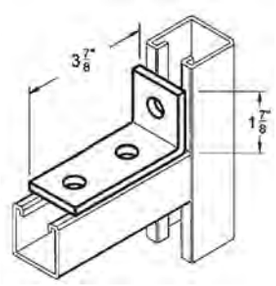
3-HOLE
CORNER ANGLE
1-5/8" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.56

9028CA

3-HOLE
CORNER ANGLE
1-7/8" X 3-7/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.58

9029CA

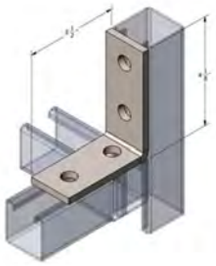
2-HOLE
ADJUSTABLE CORNER
ANGLE WITH SLOT
2-5/8" X 3-7/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.61

9030CA

4-HOLE
CORNER ANGLE
3-1/2" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.78

9031CA

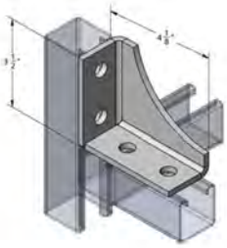
4-HOLE
CORNER ANGLE
3-3/4" X 3-7/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.76

9032CA

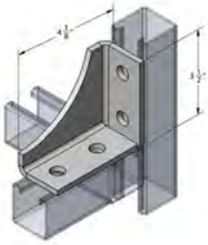
4-HOLE WEBBED
CORNER ANGLE,
RIGHT HAND
3-1/2" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.12

9033CA

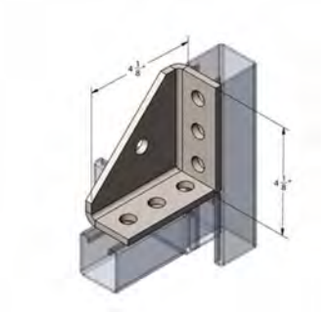
4-HOLE WEBBED
CORNER ANGLE,
LEFT HAND
3-1/2" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.12

9034CA

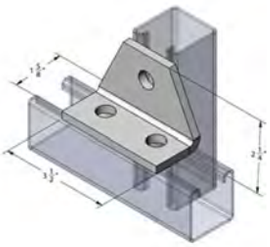
7-HOLE
UNIVERSAL
CORNER ANGLE
4-1/8" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.32

9035CA

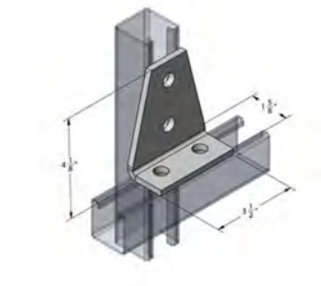
3-HOLE
SHELF GUSSET
ANGLE 1-5/8" X 2-1/4"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.67

9036CA

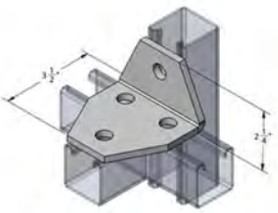
4-HOLE
SHELF GUSSET
ANGLE 1-5/8" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.02

9037CA

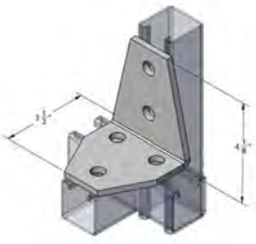
4-HOLE
SHELF GUSSET
3-WAY ANGLE
2-1/4" X 3-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.01

9038CA

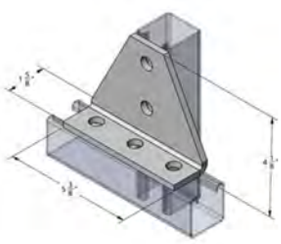
5-HOLE
SHELF GUSSET
3-WAY ANGLE
3-1/2" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.35

9039CA

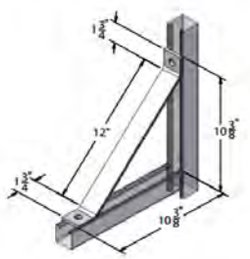
5-HOLE
SHELF GUSSET
ANGLE 1-5/8" X 4-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.41

9040CA

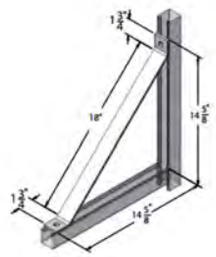
2-HOLE 45°
KNEE BRACE 12”



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.65

9042CA

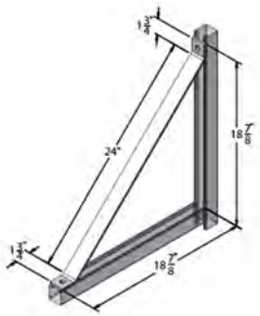
2-HOLE 45°
KNEE BRACE 18”



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	2.34

9043CA

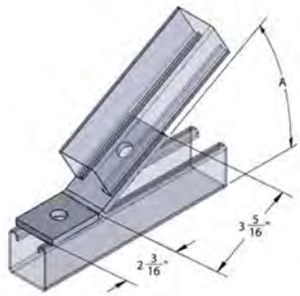
2-HOLE45°
KNEE BRACE 24”



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.03

9044AF

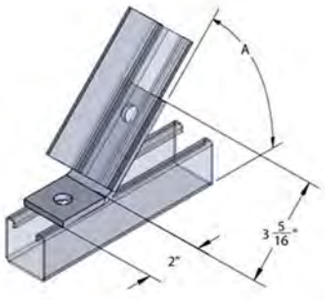
2-HOLE OPEN
ANGLE 30°
2-3/8" X 3-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.59

9045AF

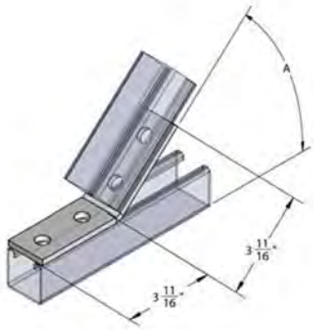
2-HOLE OPEN
ANGLE 45°
2-3/8" X 3-1/8"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.59

9046AF

4-HOLE OPEN
ANGLE 45°
3-1/2" X 3-11/16"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.78

9047AF

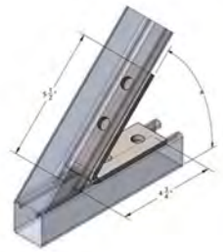
2-HOLE CLOSED
ANGLE 45°
2-1/2" X 3-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.56

9048AF

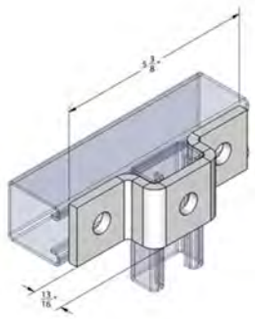
4-HOLE CLOSED
ANGLE 45°
4-3/8" X 5"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.95

9049UF

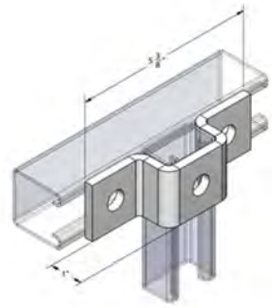
3-HOLE "U" SUPPORT
FOR 1-5/8" X 13/16" STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.70

9050UF

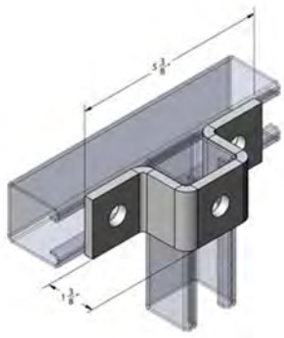
3-HOLE "U" SUPPORT
FOR 1-5/8" X 1" STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.71

9051UF

3-HOLE "U" SUPPORT
FOR 1-5/8" X 1-3/8"
STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.84

9052UF

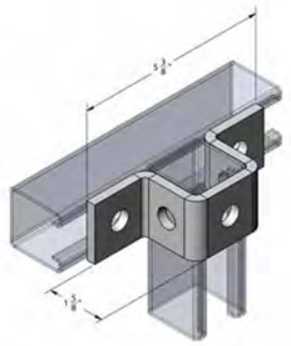
4-HOLE
SPLICE CLEVIS FOR
1-5/8" X 1-5/8" STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	2.33

9053UF

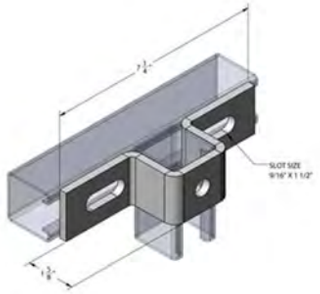
5-HOLE "U" SUPPORT
FOR 1-5/8" X 1-5/8"
STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.85

9054UF

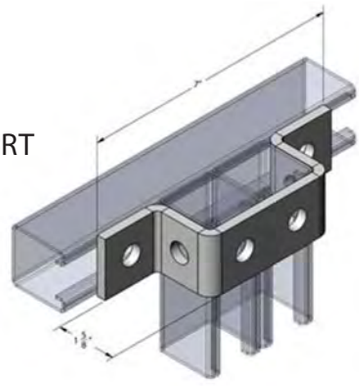
ADJUSTABLE 1-HOLE,
2 SLOT "U" SUPPORT
FOR 1-5/8" X 1-5/8"
STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.03

9055UF

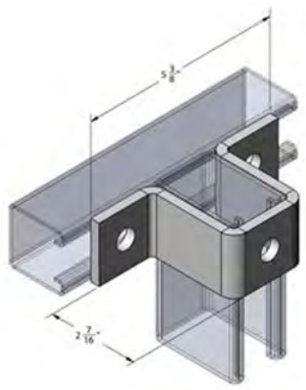
6-HOLE "U" SUPPORT
FOR 1-5/8"
DOUBLE STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.05

9056UF

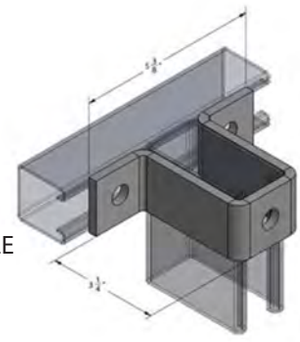
3-HOLE "U" SUPPORT
FOR 1-5/8" X 2-7/16"
STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.08

9057UF

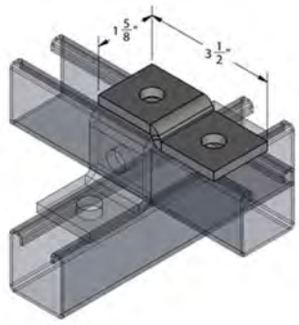
3-HOLE "U" SUPPORT
FOR 3-1/4" STRUT
ALSO AVAILABLE IN 7-HOLE



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.26

9058ZF

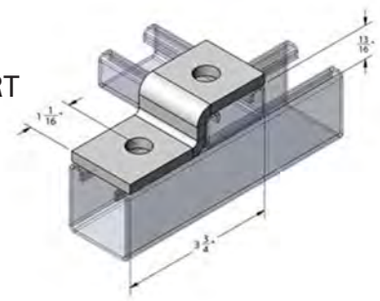
2-HOLE
OFFSET "Z" SUPPORT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.38

9059ZF

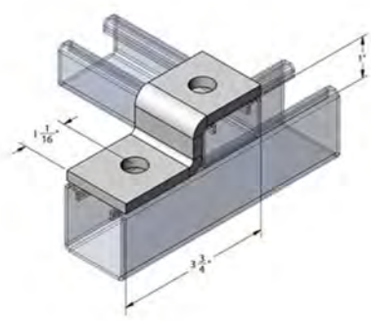
2-HOLE "Z" SUPPORT FOR 1-5/8" X 13/16" STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.43

9060ZF

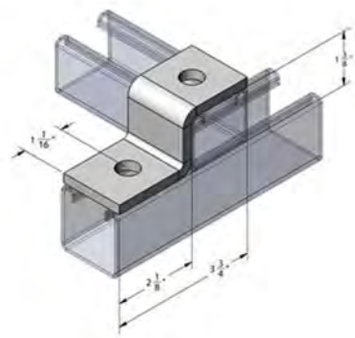
2-HOLE "Z" SUPPORT FOR 1-5/8" X 1" STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.44

9061ZF

2-HOLE "Z" SUPPO FOR 1-5/8" X 1-3/8" STRUT

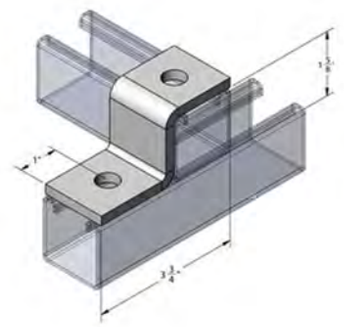


Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.51

9062ZF

2-HOLE "Z" SUPPORT FOR 1-5/8" X 1-5/8" STRUT

ALSO AVAILABLE 3 HOLE

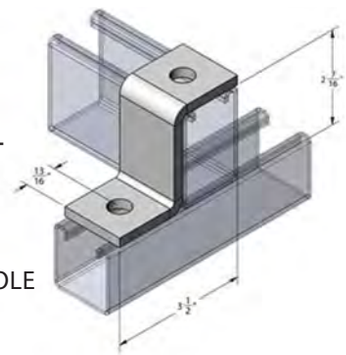


Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.52

9063ZF

2-HOLE "Z" SUPPORT FOR 1-5/8" X 2-7/16" STRUT

ALSO AVAILABLE IN 3-HOLE

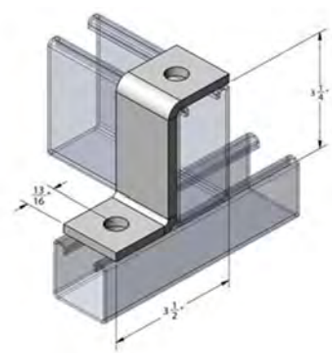


Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.64

9064ZF

2-HOLE "Z" SUPPORT FOR 1-5/8" X 3-1/4" STRUT OR STRUT COMBINATION

ALSO AVAILABLE IN 3-HOLE



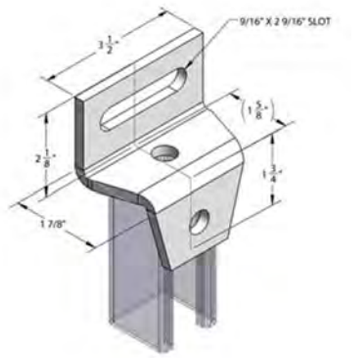
Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.70

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

9065ZF

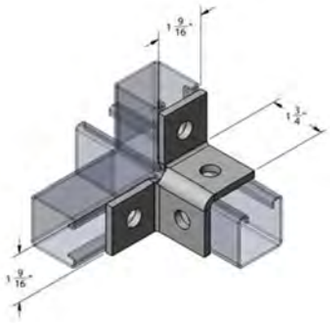
ADJUSTABLE
OFFSET GUSETTED
"Z" SUPPORT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.97

9066WF

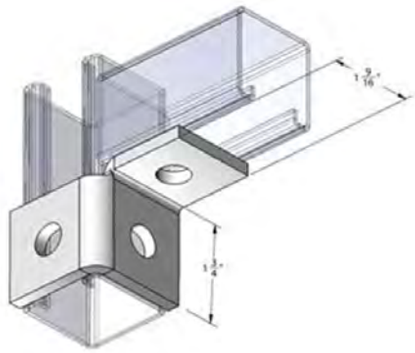
4-HOLE
DOUBLE CORNER
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.76

9067WF

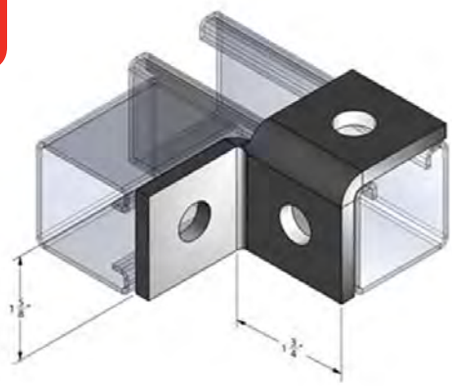
3-HOLE
SINGLE CORNER
CONNECTION -
RIGHT HAND



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.60

9068WF

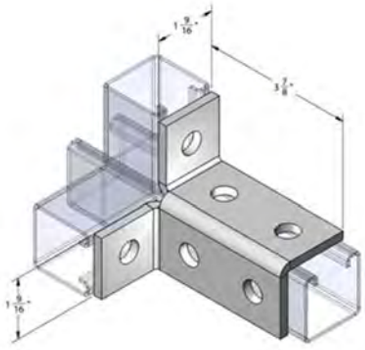
3-HOLE
SINGLE CORNER
CONNECTION -
LEFT HAND



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.60

9069WF

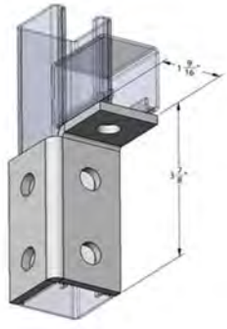
6-HOLE
DOUBLE CORNER
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.10

9070WF

5-HOLE
SINGLE CORNER
CONNECTION -
RIGHT HAND

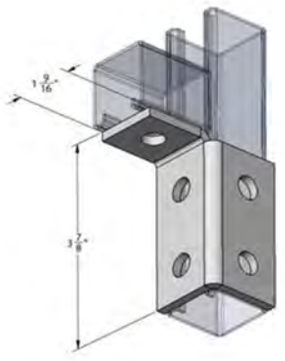


Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.00

STRUT ACCESSORIES

9071WF

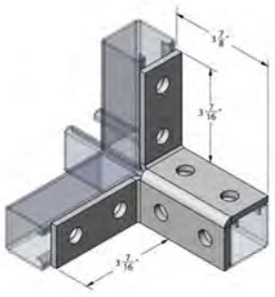
5-HOLE
SINGLE CORNER
CONNECTION -
LEFT HAND



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.00

9072WF

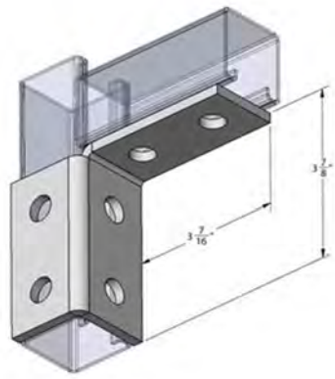
8-HOLE
DOUBLE CORNER
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.52

9073WF

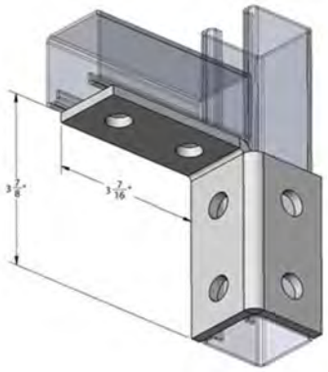
6-HOLE
SINGLE CORNER
CONNECTION -
RIGHT HAND



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.20

9074WF

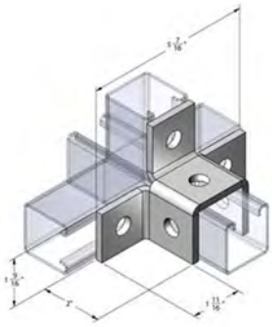
6-HOLE
SINGLE CORNER
CONNECTION -
LEFT HAND



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.20

9075WF

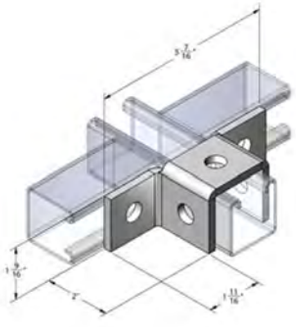
6-HOLE
TRIPLE WING
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.12

9076WF

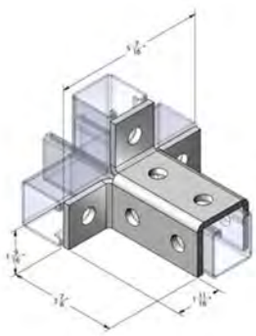
5-HOLE
DOUBLE WING
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.93

9077WF

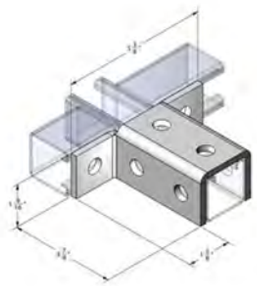
9-HOLE
TRIPLE WING
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.77

9078WF

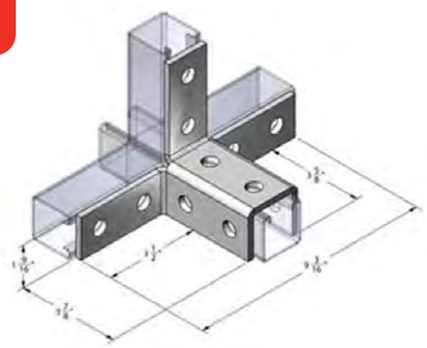
8-HOLE
DOUBLE WING
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.56

9079WF

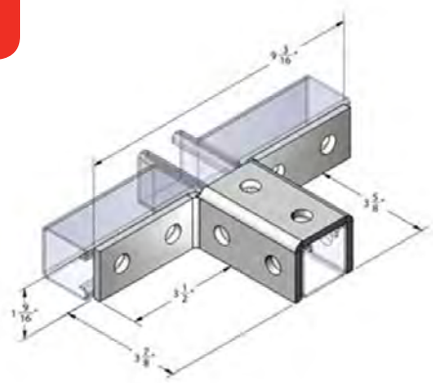
12-HOLE
TRIPLE WING
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	2.34

9080WF

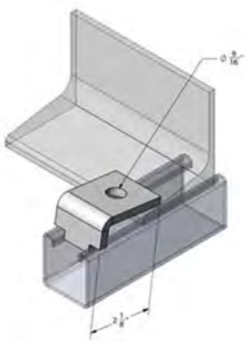
10-HOLE
DOUBLE WING
CONNECTION



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.93

9081BC

STRUT BEAM CLAMP
NOTCHED



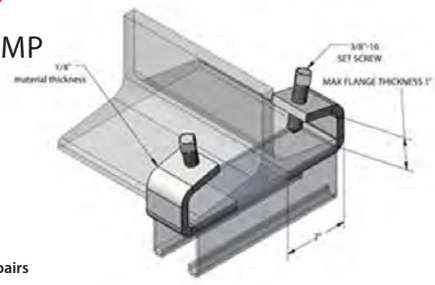
Material is 1-5/8" wide x 1/4" thick
Clamp requires 1/2"-13 HCS and 1/2" channel nut

Design load 1100 lbs when used in pairs

Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.28

9082BC

STRUT BEAM CLAMP
LIGHT DUTY
1/4" THICK



Max flange thickness 1"
3/8"-16 set screw

Design load 550 lbs when used in pairs

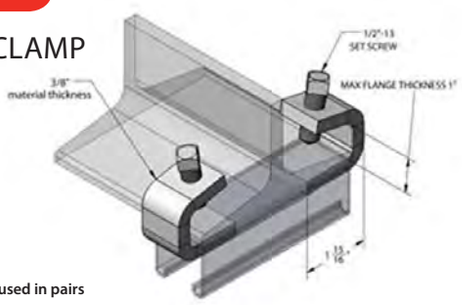
Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	.62

STRUT ACCESSORIES

M.B.E. (Minority Business Enterprise)

9083BC

STRUT BEAM CLAMP
HEAVY DUTY
$^{3}/_{8}$" THICK



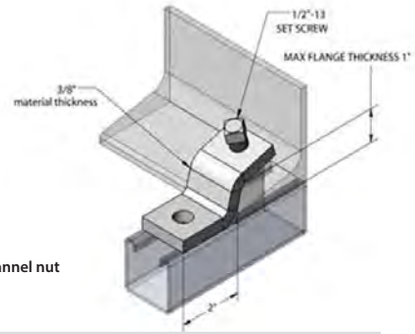
Max flange thickness 1"
1/2"-13 set screw

Design load 1000 lbs when used in pairs

Material:	$^{1}/_{4}$"
Finish:	Electro-Galvanized
Hole Dim:	$^{9}/_{16}$"
Wt. Each (lbs):	.93

9084BC

STRUT "Z" BEAM
CLAMP HEAVY DUTY
$^{3}/_{8}$" THICK

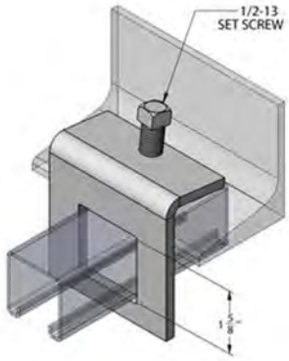


Max Flange thickness 1"
Clamp requires 1/2"-13 HCS and 1/2" channel nut
1/2" -13 set screw
Design load 1100 lbs when used in pairs

Material:	$^{1}/_{4}$"
Finish:	Electro-Galvanized
Hole Dim:	$^{9}/_{16}$"
Wt. Each (lbs):	.64

9085BC

STRUT BEAM CLAMP,
WINDOW TYPE FOR
1-$^{5}/_{8}$" STRUT



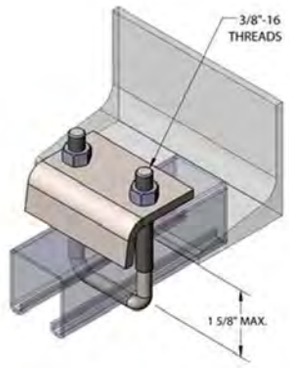
1/2"-13 set screw

Design load 950 lbs when used in pairs

Material:	$^{1}/_{4}$"
Finish:	Electro-Galvanized
Hole Dim:	$^{9}/_{16}$"
Wt. Each (lbs):	1.06

9086BC

STRUT U-BOLT
BEAM CLAMP FOR
$^{13}/_{16}$" AND 1-$^{5}/_{8}$"
STRUT



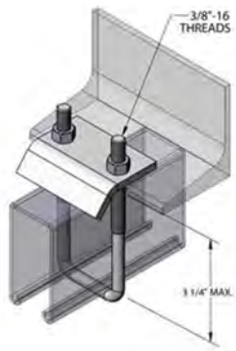
3/8" - 16 threads

Design load 1200 lbs when used in pairs

Material:	$^{1}/_{4}$"
Finish:	Electro-Galvanized
Hole Dim:	$^{9}/_{16}$"
Wt. Each (lbs):	.84

9087BC

STRUT U-BOLT
BEAM CLAMP FOR
2-$^{7}/_{16}$" AND 3-$^{1}/_{4}$"
STRUT



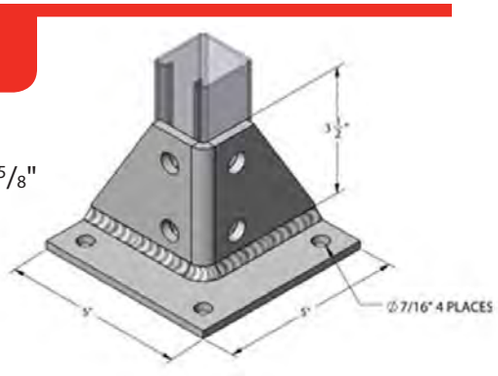
3/8" -16 threads

Design load 1200 lbs when used in pairs

Material:	$^{1}/_{4}$"
Finish:	Electro-Galvanized
Hole Dim:	$^{9}/_{16}$"
Wt. Each (lbs):	.93

9088PB

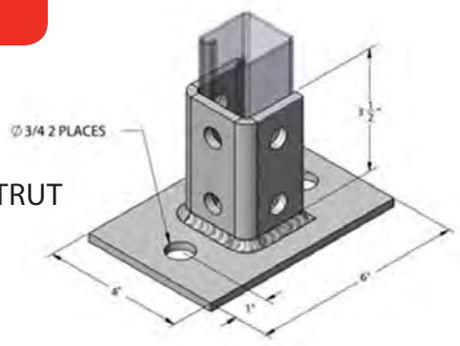
POST BASE
FOR 1-$^{5}/_{8}$" X 1-5$^{5}/_{8}$"
STRUT
5-$^{1}/_{8}$" X 5-$^{1}/_{8}$"
BASE



Material:	$^{1}/_{4}$"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	$^{9}/_{16}$"
Wt. Each (lbs):	2.88

9089PB

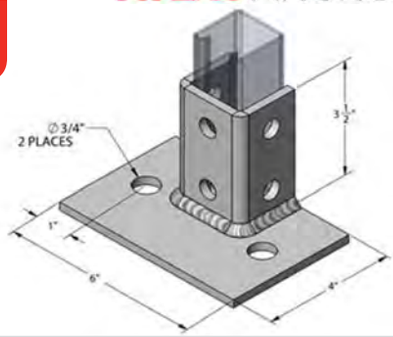
POST BASE
SQUARE FOR
1-5/8" X 1-5/8" STRUT
4" X 6" BASE



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.12

9090PB

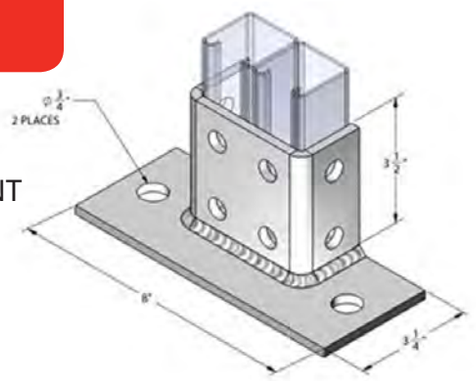
POST BASE -
FLUSH MOUNT
FOR 1-5/8" X 1-5/8"
STRUT
4" X 6" BASE



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.12

9091PB

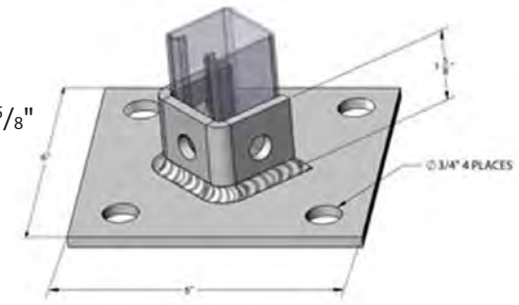
POST BASE
FLUSH MOUNT
FOR
1-5/8" X 3-1/4"
STRUT
4" X 7" BASE



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.20

9092PB

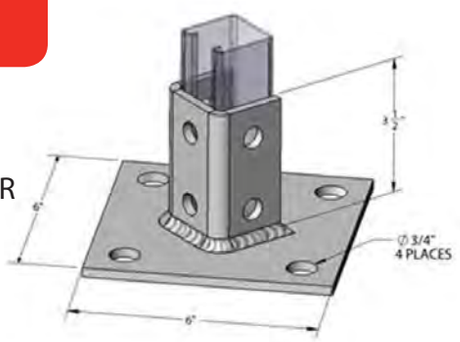
POST BASE
FOR 1-5/8" X 1-5/8"
STRUT
6" X 6" BASE



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.20

9093PB

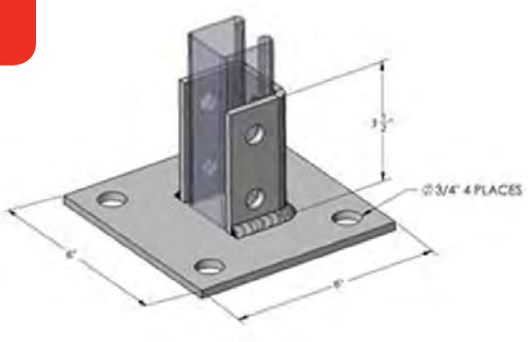
POST BASE -
DIAGONAL FOR
1-5/8" X 1-5/8"
STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.92

9094PB

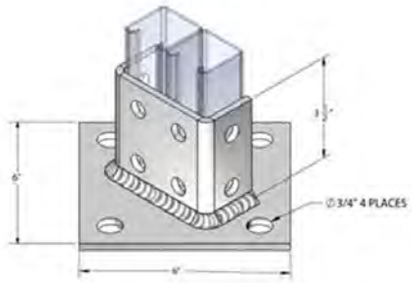
POST BASE -
SQUARE FOR
1-5/8" X 1-5/8"
STRUT



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.92

9095PB

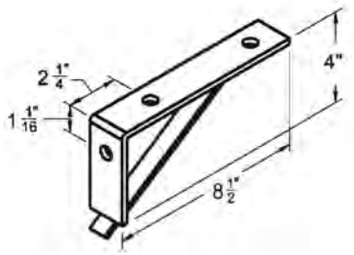
POST BASE FOR
1-5/8" X 3-1/4"STRUT
6" X 6" BASE



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	4.04

9103BB

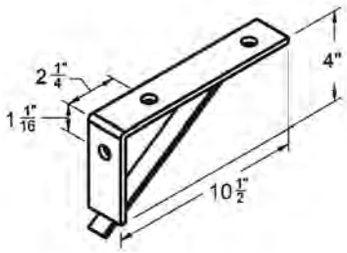
HEAVY DUTY
BRACKET 8-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	1.68

9104BB

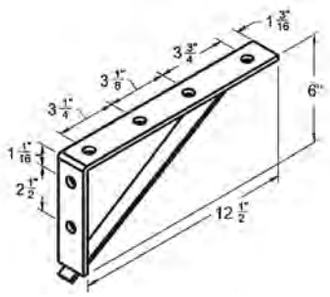
HEAVY DUTY
BRACKET 10-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	2.02

9105BB

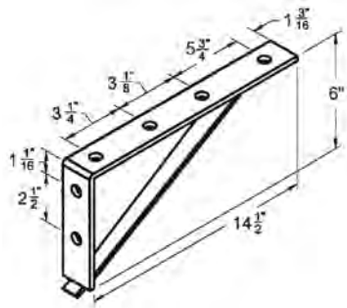
HEAVY DUTY
BRACKET 12-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	2.58

9106BB

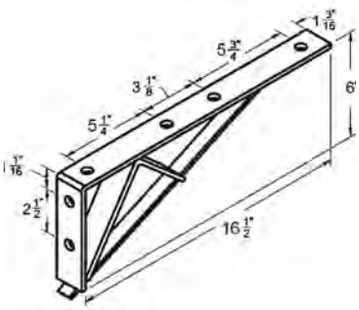
HEAVY DUTY
BRACKET 14-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	2.92

9107BB

HEAVY DUTY
SHELF BRACKET
BRACKET 16-1/2"



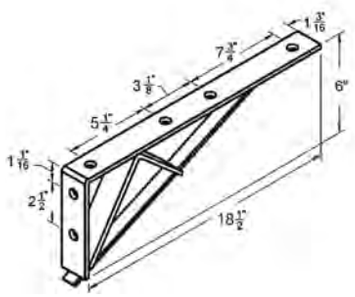
Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.81

M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

9108BB

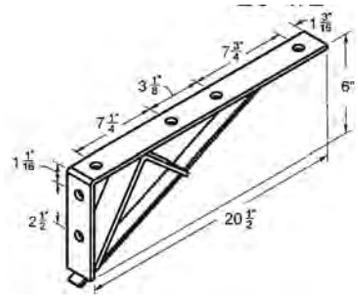
HEAVY
DUTY SHELF
BRACKET 18-1/2"



Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	4.16

9109BB

HEAVY
DUTY SHELF
BRACKET 20-1/2"

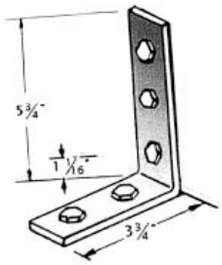


Material:	1/4"
Finish:	Electro-Galvanized, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	4.61

9150CA

MODEL A

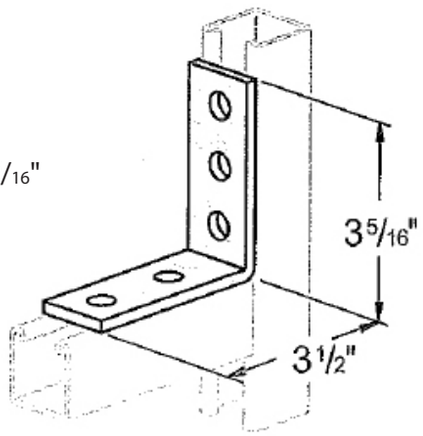
5-HOLE CORNER
ANGLE 3-3/4 X 5-3/4"



Material:	1/4"
Finish:	Electro-galvanized, SST 316 & 304
Hole Dim:	9/16"

MODEL B

5-HOLE CORNER
ANGLE 3-1/2 X 3-5/16"



STRUT ACCESSORIES

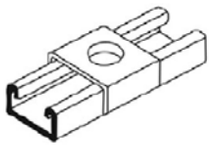
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M.B.E. (Minority Business Enterprise)

ATLAS ANCHOR

UW-450

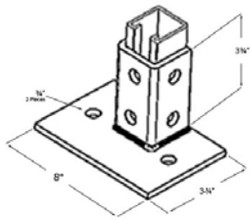
11 GA. "U" SADDLE WASHER 1-5/8" WIDE WITH 15/32" RETURN



Part Number	Std. Pkg.	Weight Per 100 Pcs.
UW-450-3/8 7/16" Hole	As Required	14
UW-450-1/2 9/16" Hole	As Required	13
UW-450-5/8 11/16" Hole	As Required	13
UW-450-3/4 13/16" Hole	As Required	13

PB-280-FL PLTD

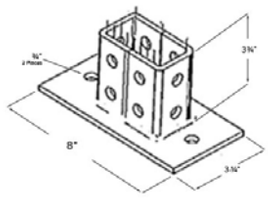
FLUSH MOUNT POST BASE
FOR 1-5/8" X 1-5/8" STRUT
3-1/4" X 8" BASE
TWO 3/4" HOLES



Material:	1/4"
Finish:	Electro-Plated, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.12

PB-2064 PLTD

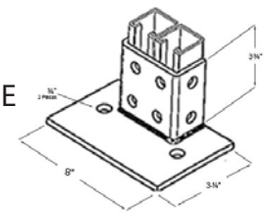
SQUARED POST BASE
FOR 1-5/8" X 3-1/4" STRUT
4" X 7" BASE
TWO 9/16" HOLES



Material:	1/4"
Finish:	Electro-Plated, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.11

PB-3064-FL PLTD

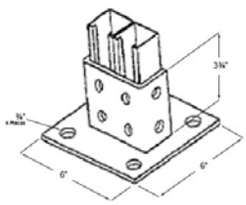
FLUSH MOUNT POST BASE
FOR 1-5/8" X 3-1/4" STRUT
3-1/4" X 8" BASE
TWO 3/4" HOLES



Material:	1/4"
Finish:	Electro-Plated, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.11

PB-3064-SQ PLTD

SQUARED POST BASE
FOR 1-5/8" X 3-1/4" STRUT
6" SQUARE BASE
FOUR 3/4" HOLES



Material:	1/4"
Finish:	Electro-Plated, SST 316 & 304
Hole Dim:	9/16"
Wt. Each (lbs):	3.75

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ATLAS ANCHOR

M.B.E. (Minority Business Enterprise)

CARBIDE HAMMER DRILL BITS

4-PLUS

- Rotary Hammer Drill
- Self Centering Chisel Point
- Special Tungsten Carbide Tip
- Copper / Silver Brazing
- ANSI Specification
- Fastest Dust Removal
- Fastest Drilling Speeds
- Clean Round Holes
- Polished Finish
- Industrial Quality
  - Concrete
  - Masonry
  - Stone
  - Brick
  - Aggregates



SDS PLUS

SDS-PLUS					
PART NUMBER	DRILL SIZE	X	O/A LENGTH	DRILLING DEPTH	HEAD STYLE
715S41064	5/32"	X	4-1/2"	2"	4-PLUS
715S61064		X	6-1/4"	4"	4-PLUS
715S41264	3/16"	X	4-1/2"	2"	4-PLUS
715S61264		X	6-1/4"	4"	4-PLUS
715S81264		X	8-1/4"	6"	4-PLUS
715S10316		X	10"	8"	4-PLUS
715S12316		X	12"	10"	4-PLUS
715S14316		X	14"	12"	4-PLUS
715S16316		X	16"	14"	4-PLUS
715S41464	7/32"	X	4-1/2"	2"	4-PLUS
715S61464		X	6-1/4"	4"	4-PLUS
715S81464		X	8-1/4"	6"	4-PLUS
715S11732		X	11"	9"	4-PLUS
715S16732		X	16"	14"	4-PLUS
715S20732		X	20"	18"	4-PLUS
715S41664	1/4"	X	4-1/2"	2"	4-PLUS
715S61664		X	6-1/4"	4"	4-PLUS
715S91664		X	8-1/4"	6"	4-PLUS
715S11014		X	11"	9"	4-PLUS
715S14014		X	14"	12"	4-PLUS
715S16014		X	16"	14"	4-PLUS
715S20014		X	20"	18"	4-PLUS
715S62064	5/16"	X	6-1/4"	4"	4-PLUS
715S92064		X	8-1/4"	6"	4-PLUS
715S12516		X	12"	10"	4-PLUS
715S62464	3/8"	X	6-1/4"	4"	4-PLUS
715S92464		X	8-1/4"	6"	4-PLUS
715S10038		X	10-1/4"	8"	4-PLUS
715S12038		X	12-1/4"	10"	4-PLUS
715S18038		X	18"	16"	4-PLUS
715S24038		X	24"	22"	4-PLUS
715S62864	7/16"	X	6-1/4"	4"	4-PLUS
715S10716		X	10-1/4"	8"	4-PLUS
715S12716		X	12-1/4"	10"	4-PLUS
715S18716		X	18"	16"	4-PLUS
715S63264	1/2"	X	6-1/4"	4"	4-PLUS
715S10012		X	10-1/4"	8"	4-PLUS
715S12012		X	12-1/4"	10"	4-PLUS
715S12018		X	18"	16"	4-PLUS
715S12024		X	24"	22"	4-PLUS
715S63664	9/16"	X	6 1/4"	4"	4-PLUS
715S10916		X	10 1/4"	8"	4-PLUS
715S12916		X	12 1/4"	10"	4-PLUS
715S18916		X	18"	16"	4-PLUS

3 Head Styles:



4-PLUS



A new, fast, & tough carbide tip provides long life, easy centering, and fast drilling through all aggregates, concrete, masonry, brick, stone, and even rebar!



REGULAR



Traditional Tungsten Carbide Tip with Copper Silver Brazing for clean drilling through all aggregates, concrete, masonry, brick, & stone. Regular heads are found on SDS-PLUS sizes over 5/8".



X-CUTTER

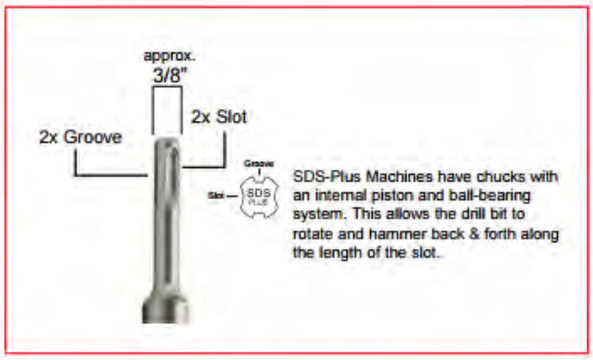


4 Sided Traditional Tungset Carbide Tip with Copper Silver Brazing for super fast clean drilling all aggregates, concrete, masonry, brick, & stone. Will not cut rebar.



For Drop-In Anchors

- **Rotary Hammer Drill**
- **STOP - Lip Prevents Over-Drilling**
- **Drill Exact Depth for Drop-In Anchor**
- **Less Likely to hit Rebar**
- **ANSI Specification**



4-PLUS









SDS PLUS

SDS-PLUS with STOP Rotary Hammer Bit			
PART NUMBER	DRILL SIZE	DRILL DEPTH	ANCHOR SIZE
STP-617	3/8"	1 1/16"	1/4"
STP-813	1/2"	1 3/16"	3/8" short
STP-827		1 11/16"	3/8"
STP-1019	5/8"	1 3/16"	1/2" short
STP-1033		2 1/16"	1/2"

X-CUTTER

- Rotary Hammer Drill
- Self Centering Chisel Point
- Special Tungsten Carbide Tip
- Copper / Silver Brazing
- ANSI Specification
- Fastest Dust Removal
- Fastest Drilling Speeds
- Clean Round Holes
- Polished Finish
- Industrial Quality
  - Reinforced Concrete
  - Masonry
  - Stone
  - Brick
  - Aggregates



SDS PLUS

SDS-PLUS					
PART NUMBER	DRILL SIZE	X	O/A LENGTH	DRILLING DEPTH	HEAD STYLE
750TE010	5/8"	X	8"	6"	X-CUTTER
750TE020		X	10"	8"	X-CUTTER
750TE030		X	12"	10"	X-CUTTER
750TE040		X	18"	16"	X-CUTTER
750TE060	11/16"	X	10"	8"	X-CUTTER
750TE070		X	12"	10"	X-CUTTER
750TE080		X	18"	16"	X-CUTTER
750TE090	3/4"	X	8"	6"	X-CUTTER
750TE100		X	10"	8"	X-CUTTER
750TE110		X	12"	10"	X-CUTTER
750TE120		X	18"	16"	X-CUTTER
750TE130	27/32"	X	10"	8"	X-CUTTER
750TE140	7/8"	X	8"	6"	X-CUTTER
750TE150		X	10"	8"	X-CUTTER
750TE160		X	12"	10"	X-CUTTER
750TE170		X	18"	16"	X-CUTTER
750TE190	1"	X	10"	8"	X-CUTTER
750TE200		X	12"	10"	X-CUTTER
750TE210		X	18"	16"	X-CUTTER
750TE220	1 1/8"	X	10"	8"	X-CUTTER
750TE230		X	18"	16"	X-CUTTER
750TE240	1 1/4"	X	18"	16"	X-CUTTER



X-Cutter

- 4 x 90° Head Symmetry
- Centering Tip for Pinpoint Accuracy
- Reinforcing Chamfers
- Maximum Carbide / Steel Interface
- Low Vibration for Increased Rotational Stability
- ANSI Specification

BOLT-PAKS

Quality Control

Extraordinary caution is used to assure the quality and correct sizing of the components that make up Bolt-Paks. Bolts and nuts are selected for their consistent quality and conformance to standard. Nuts are visually inspected for correct sizing, fractures, and other defects. Gaskets are inspected for thickness and irregular cuts, and are checked for I.D. and O.D. measurement. Rigid quality control gives assurance that every component of every "PAK" is usable for the purpose for which it is intended.

Package Features

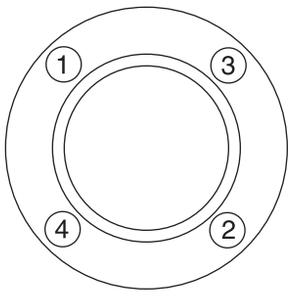
The component configuration of the "PAKS" is the result of years of research spent in developing a "PAK" that would be durable, minimal in size, and yet accommodate maximum pipe size requirements. Components are carefully placed to attain proper balance, and to maximize sealing. All "PAKS" are marked under the film as to catalog number, nominal pipe size, and pressure class.

Installation of Flange Accessories

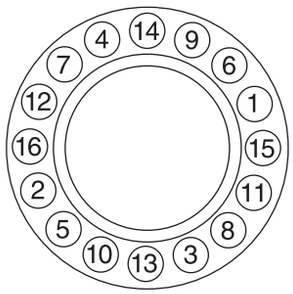
The following procedures and precautionary measures are recommended to insure a satisfactory flanged joint:

1. Inspect flanges for proper surface finish and flatness. Flanges with surface pits, and other than flat surfaces should not be used.
2. Be sure gasket is centered on the flange before tightening bolts.
3. Use a torque wrench and well lubricated bolts to install bolts in the numerical order as indicated in the figure below. Bolts must be tightened uniformly to insure correct initial loading.
4. Re-torque 24 to 36 hours after coming on stream.

FOUR-BOLT



MULTI-BOLT



Material Standards

Materials used in the flange accessory "PAKS" are chosen to conform to materials in general use in the piping industry, and to comply with ASTM, API and ANSI material and dimensional standards. Specifications other than these are sometimes difficult to identify and an interpretation of intent is required. Every effort is made to assist in specification identity, but we do not warrant such interpretations to be the materials intended by the specifying engineer.

On the previous page are the specifications of materials used in standard "PAKS." Due to the wide range of product types and grades available, only those most commonly used are listed. Other material types, grades and combinations are available by giving full description.

Plating Specifications

Hot Dipped Galvanized – Zinc is applied by the hot-dip method in accordance with the requirements of ASTM Standard A153.

Mechanical Galvanized – Zinc is applied in a rotating drum (mechanical plating) in a series of operations in accordance with the requirements of ASTM Standard B454. A Class 50 coating is applied with the thickness specified as .002 inch.

Electroplated Zinc – Zinc is applied in an electroplated coating in accordance with the requirements of ASTM Standard A164.

Electroplated Cadmium – Cadmium is applied in an electroplated coating in accordance with the requirements of ASTM Standard A165.

Standard PAKS

Standard "PAKS" contain materials most commonly used in the general construction industry. Made in pressure ranges thru 300 psi, they offer a wide range of sizes and gasket materials available from stock. Bolting used in these "PAKS" meet specification ASTM A-307, Grade 2 with finished hex nuts. Bolt sizes used as standard are as follows:

Nominal Pipe Size	125 lb. Sets		150 lb. Sets		300 lb. Sets	
	Quantity	Size	Quantity	Size	Quantity	Size
1/2"			4	1/2 x 1 3/4	4	1/2 x 2
3/4"			4	1/2 x 1 3/4	4	5/8 x 2 1/4
1"	4	1/2 x 2	4	1/2 x 1 3/4	4	5/8 x 2 1/2
1 1/4"	4	1/2 x 2	4	1/2 x 2	4	5/8 x 2 1/2
1 1/2"	4	1/2 x 2	4	1/2 x 2	4	3/4 x 2 3/4
2"	4	5/8 x 2 1/2	4	5/8 x 2 1/4	8	5/8 x 2 3/4
2 1/2"	4	5/8 x 2 1/2	4	5/8 x 2 1/2	8	3/4 x 3 1/4
3"	4	5/8 x 2 1/2	4	5/8 x 2 1/2	8	3/4 x 3 1/2
4"	4	5/8 x 3	4	5/8 x 3	8	3/4 x 3 1/2
5"	8	3/4 x 3	8	3/4 x 3	8	3/4 x 4
6"	8	3/4 x 3 1/4	8	3/4 x 3 1/4	12	3/4 x 4
8"	8	3/4 x 3 1/2	8	3/4 x 3 1/2	12	7/8 x 4 1/2
10"	8	7/8 x 3 3/4	8	7/8 x 3 3/4	16	1 x 5 1/4
12"	12	7/8 x 4	12	7/8 x 3 3/4	16	1 1/8 x 5 1/2
14"	12	1 x 4 1/2	12	1 x 4 1/4	20	1 1/8 x 6
16"	16	1 x 4 1/2	16	1 x 4 1/2	20	1 1/4 x 6 1/2
18"	16	1 1/8 x 5	16	1 1/8 x 4 3/4	24	1 1/4 x 6 1/2
20"	20	1 1/8 x 5	20	1 1/8 x 5	24	1 1/4 x 7
24"	20	1 1/4 x 5 1/2	20	1 1/4 x 5 1/2	24	1 1/2 x 8
30"			28	1 1/4 x 6		
36"			32	1 1/2 x 7		

Stud PAKS

The RC series alloy stud "PAKS" are offered as standard in pressure classes thru 1500 psi. Stud bolting (in Grades B7, B8, B16, etc.) is offered in this series to meet the demands of highly corrosive conditions. Gaskets in standard "PAKS" are available in Asbestos, non-asbestos, spiral wound, etc. as specified.

Standard stud sizes and stud quantities are as follows:

Pipe Size	150 lb. Sets		300 lb. Sets		600 lb. Sets		900 lb. Sets	
	Quantity	Size	Quantity	Size	Quantity	Size	Quantity	Size
1/2"	4	1/2 x 2 1/2	4	1/2 x 2 3/4	4	1/2 x 3 1/4	4	3/4 x 4 1/4
3/4"	4	1/2 x 2 1/2	4	5/8 x 3	4	5/8 x 3 1/2	4	3/4 x 4 1/2
1"	4	1/2 x 2 3/4	4	5/8 x 3 1/4	4	5/8 x 3 3/4	4	7/8 x 5
1 1/4"	4	1/2 x 2 3/4	4	5/8 x 3 1/4	4	5/8 x 4	4	7/8 x 5
1 1/2"	4	1/2 x 3	4	3/4 x 3 3/4	4	3/4 x 4 1/4	4	1 x 5 1/2
2"	4	5/8 x 3 1/4	8	5/8 x 3 1/2	8	5/8 x 4 1/4	8	7/8 x 5 3/4
2 1/2"	4	5/8 x 3 1/2	8	3/4 x 3 1/2	8	3/4 x 4 3/4	8	1 x 6 1/4
3"	4	5/8 x 3 3/4	8	3/4 x 4	8	3/4 x 5	8	7/8 x 5 3/4
4"	8	5/8 x 3 3/4	8	3/4 x 4 1/4	8	7/8 x 5 3/4	8	1 1/8 x 6 3/4
5"	8	3/4 x 4	8	3/4 x 4 1/2	8	1 x 6 1/2		1 1/4 x 7 1/4
6"	8	3/4 x 4	12	3/4 x 4 3/4	12	1 x 6 1/2	12	1 1/8 x 7 3/4
8"	8	3/4 x 4 1/4	12	7/8 x 5 1/2	12	1 1/8 x 7 3/4	12	1 3/8 x 8 3/4
10"	12	7/8 x 4 3/4	16	1 x 6 1/4	16	1 1/4 x 8 1/2		
12"	12	7/8 x 4 3/4	16	1 1/8 x 6 3/4	20	1 1/4 x 8 3/4		
14"	12	1 x 5 1/4	20	1 1/8 x 7				
16"	16	1 x 5 1/2	20	1 1/4 x 7 1/2				
18"	16	1 1/8 x 6	24	1 1/4 x 7 3/4				
20"	20	1 1/8 x 6 1/4	24	1 1/4 x 8 1/4				
24"	20	1 1/4 x 7	24	1 1/2 x 9 1/4				

Ring Joint PAKS

A.P.I. Ring Joint "PAKS" (RJ Series) contain alloy studs and a ring type gasket machined from solid metal. Used primarily in the petroleum industry, these "PAKS" are excellent for high-pressure, high-temperature service where operating conditions require a special joint design. "PAKS" are offered in pressure classes 300 through 2,500 PSI with various alloy studs (cadmium plated) and with soft iron rings as standard.

Ring numbers and standard stud sizes are as follows:

Nominal Pipe Size	300 PSI		600 PSI		900 PSI		1500 PSI		2500 PSI	
	Ring No.	Stud Size	Ring No.	Stud Size	Ring No.	Stud Size	Ring No.	Stud Size	Ring No.	Stud Size
1/2"	R11	1/2 x 3	R11	1/2 x 3	R12	3/4 x 4 1/2	R12	3/4 x 4 1/4	R13	3/4 x 5 1/4
3/4"	R13	5/8 x 3 1/2	R13	5/8 x 3 1/2	R14	3/4 x 4 1/2	R14	3/4 x 4 1/2	R16	3/4 x 5 1/4
1"	R16	5/8 x 3 3/4	R16	5/8 x 3 3/4	R16	7/8 x 5	R16	7/8 x 5	R18	7/8 x 5 3/4
1 1/4"	R18	5/8 x 3 3/4	R18	5/8 x 4	R18	7/8 x 5	R18	7/8 x 5	R21	1 x 6 1/2
1 1/2"	R20	3/4 x 4 1/4	R20	3/4 x 4 1/4	R20	1 x 5 1/2	R20	1 x 5 1/2	R23	1 1/8 x 7 1/4
2"	R23	5/8 x 4 1/4	R23	5/8 x 4 1/2	R24	7/8 x 5 3/4	R24	7/8 x 5 3/4	R26	1 x 7 1/2
2 1/2"	R26	3/4 x 4 3/4	R26	3/4 x 5	R27	1 x 6 1/4	R27	1 x 6 1/4	R28	1 1/8 x 8 1/4
3"	R31	3/4 x 5	R31	3/4 x 5 1/4	R31	7/8 x 6	R35	1 7/8 x 7	R32	1 1/4 x 9 1/4
4"	R37	3/4 x 5 1/4	R37	7/8 x 6	R37	1 1/8 x 7	R39	1 1/4 x 7 3/4	R38	1 1/2 x 10 3/4
6"	R45	3/4 x 5 3/4	R45	1 x 7	R45	1 1/8 x 7 3/4	R46	1 1/8 x 10 1/2		
8"	R49	7/8 x 6 1/4	R49	1 1/8 x 7 3/4	R49	1 3/8 x 9				
10"	R53	1 x 7	R53	1 1/4 x 8 3/4						
12"	R57	1 1/8 x 7 1/2	R57	1 1/4 x 9						

Butterfly Valve PAKS

Due to the lack of bolting standards in butterfly valves, additional dimensional information is sometimes required to assure proper bolt lengths and quantities in the packs.

Larger sizes of flanged valves usually have two or more body tappings requiring special length capscrews. The quantity and lengths of these capscrews must be given at time of order placement.

Although lug type "LBV" valve bolting is more standardized than wafer type "WBV" flanged type, manufacturers specifications should be checked.

Standard bolting sizes for LBV and WBV "PAKS" are as follows:

Nominal Pipe Size	LBV Capscrews		WBV Machine Bolts	
	Quantity	Size	Quantity	Size
2"	8	5/8 x 1 1/4	4	5/8 x 4
2 1/2"	8	5/8 x 1 1/4	4	5/8 x 4 1/2
3"	8	5/8 x 1 1/2	4	5/8 x 4 1/2
4"	16	5/8 x 1 1/2	8	5/8 x 5
5"	16	3/4 x 1 3/4	8	3/4 x 5 1/2
6"	16	3/4 x 2	8	3/4 x 5 1/2
8"	16	3/4 x 2 1/2	8	3/4 x 6
10"	24	7/8 x 2 1/4	12	7/8 x 6 1/4
12"	24	7/8 x 2 1/2	12	7/8 x 7 1/2

FLANGE BOLT CHART

Pipe Size	150#				
	Flange OD	Number of Bolts	Flange to Flange Bolt Siz	Standard Butterfly	AP Butterfly
1/2"	3 1/2	4	½ x 1 ¾	----------	----------
3/4"	3 7/8	4	½ x 1 ¾	----------	----------
1"	4 1/4	4	½ x 1 ¾	----------	----------
11/4"	4 5/8	4	½ x 2	----------	----------
11/2"	5	4	½ x 2	----------	----------
2"	6	4	⅝ x 2 ¼	5/8 x 1 1/4	----------
21/2"	7	4	⅝ x 2 ¼	5/8 x 1 1/4	5/8 x 1 3/4
3"	7 1/2	4	⅝ x 2 ¼	5/8 x 1 1/4	5/8 x 1 3/4
4"	9	8	⅝ x 3	5/8 x 1 1/4	5/8 x 2
5"	10	8	3/4 x 3	3/4 x 1 3/4	3/4 x 2
6"	11	8	3/4 x 3 1/4	3/4 x 2	3/4 x 2
8"	13 1/2	8	3/4 x 3 1/2	3/4 x 2 1/4	3/4 x 2 1/4
10"	16	12	7/8 x 3 3/4	7/8 x 2 1/4	7/8 x 2 1/2
12"	19	12	7/8 x 3 3/4	7/8 x 2 1/2	7/8 x 2 3/4
14"	21	12	1 x 4 1/4	1 x 2 1/2	1 x 3
16"	23 1/2	16	1 x 4 1/2	1 x 3 1/4	1 x 3
18"	25	16	1 1/8 x 4 3/4	1 1/8 x 3 1/2	1 1/8 (8) x 3 1/4
20"	27 1/2	20	1 1/8 x 5	1 1/8 x 4	1 1/8 (8) x 3 3/4
24"	32	20	1 1/4 x 5 1/2	1 1/4 x 4	1 1/4 (8) x 4

Pipe Size	300#			
	Flange OD	Number of Bolts	Flange to Flange Bolt Size	Lug Style B-F
1/2"	3 3/4	4	1/2 x 2	----------
3/4"	4 5/8	4	5/8 x 2 1/4	----------
1"	4 7/8	4	5/8 x 2 1/2	----------
1 1/4"	5 1/4	4	5/8 x 2 1/2	----------
1 1/2"	6 1/8	4	3/4 x 2 3/4	----------
2"	6 1/2	8	5/8 x 2 3/4	----------
2 1/2"	7 1/2	8	3/4 x 3 1/4	3/4 x 1 3/4
3"	8 1/4	8	3/4 x 3 1/2	3/4 x 2
4"	10	8	3/4 x 3 1/2	3/4 x 2 1/4
5"	11	8	3/4 x 4	3/4 x 2 1/4
6"	12 1/2	12	3/4 x 4	3/4 x 2 1/2
8"	15	12	7/8 x 4 1/2	7/8 x 3
10"	17 1/2	16	1 x 5 1/4	1 x 3 1/4
12"	20 1/2	16	1 1/8 x 5 1/2	1 1/8 (8) x 3 3/4
14"	23	20	1 1/8 x 6	1 1/8 (8) x 3 3/4
16"	25 1/2	20	1 1/4 x 6	1 1/4 (8) x 3 3/4
18"	28	24	1 1/4 x 6 1/2	1 1/4 (8) x 4
20"	30 1/2	24	1 1/4 x 7	1 1/4 (8) x 4
24"	36	24	1 1/8 x 8	20-1 1/2 (8) x 5

Maximum Horizontal Spacing Between Hangers/Supports

Nom. Pipe or Tube Dia.	Standard Weight Steel Pipe		Copper Tube	
	Water Service (Ft)	Vapor Service (Ft)	Water Service (Ft)	Vapor Service (Ft)
1/4	7	8	5	5
3/8	7	8	5	6
1/2	7	8	5	6
3/4	7	9	5	7
1	7	9	6	8
1 1/4	7	9	7	9
1 1/2	9	12	8	10
2	10	13	8	11
2 1/2	11	14	9	13
3	12	15	10	14
3 1/2	13	16	11	15
4	14	17	12	16
5	16	19	13	18
6	17	21	14	20
8	19	24	16	23
10	22	26	18	25
12	23	30	19	28
14	25	32	--	--
16	27	35	--	--
18	28	37	--	--
20	30	39	--	--
24	32	42	--	--
30	33	44	--	--

Maximum Horizontal Spacing Between Hangers/Supports
(continued)

Support spacings for PVC and CPVC pipe systems are greatly influenced by operating temperature. The charts below recommend horizontal spacing based on pipe size, schedule, material (PVC or industrial grade CPVC), and operating temperature. Hangers/supports should not be clamped tightly because axial movement of plastic pipe would be restricted. These charts are based on continuous spans and uninsulated lines carrying liquids.

Pipe Size (in)	SCHEDULE 40 PVC Temperature °F					SCHEDULE 80 PVC Temperature °F				
	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°
1/4	4	3 1/2	3 1/2	2	2	4	4	3 1/2	2 1/2	2
3/8	4	4	3 1/2	2 1/2	2	4 1/2	4 1/2	4	2 1/2	2 1/2
1/2	4 1/2	4 1/2	4	2 1/2	2 1/2	5	4 1/2	4 1/2	3	2 1/2
3/4	5	4 1/	4	2 1/2	2 1/2	5 1/2	5	4 1/2	3	2 1/2
1	5 1/2	5	4 1/2	3	2 1/2	6	5 1/2	5	3 1/2	3
1 1/4	5 1/2	5 1/2	5	3	3	6	6	5 1/2	3 1/2	3
1 1/2	6	5 1/2	5	3 1/2	3	6 1/2	6	5 1/2	3 1/2	3 1/2
2	6	5 1/2	5	3 1/2	3	7	6 1/2	6	4	3 1/2
2 1/2	7	6 1/2	6	4	3 1/2	7 1/2	7 1/2	6 1/2	4 1/2	4
3	7	7	6	4	3 1/	8	7 1/2	7	4 1/2	4
3 1/2	7 1/2	7	6 1/2	4	4	8 1/2	8	7 1/2	5	4 1/2
4	7 1/2	7	6 1/2	4 1/2	4	9	8 1/2	7 1/2	5	4 1/2
5	8	7 1/2	7	4 1/2	4	9 1/2	9	8	5 1/2	5
6	8 1/2	8	7 1/2	5	4 1/2	10	9 1/2	9	6	5
8	9	8 1/2	8	5	4 1/2	11	10 1/2	9 1/2	6 1/2	5 1/2
10	10	9	8 1/2	5 1/2	5	12	11	10	7	6
12	11 1/2	10 1/2	9 1/2	6 1/2	5 1/2	13	12	10 1/2	7 1/2	6 1/2
14	12	11	10	7	6	13 1/2	13	11	8	7
16	12 1/2	11 1/2	10 1/2	7 1/2	6 1/2	14	13 1/2	11 1/2	8 1/2	7 1/2
SDR 41 PVC						SDR 26 PVC				
18	13	12	11	8	7	14 1/2	14	12	9	8
20	13 1/2	12 1/2	11 1/2	8 1/2	7 1/2	15	14 1/2	12 1/2	9 1/2	8 1/2
24	14	13	12	9	8	15 1/2	15	13	10	9

Pipe Size (in)	SCHEDULE 40 CPVC Temperature °F						SCHEDULE 80 CPVC Temperature °F					
	73°	100°	120°	140°	160°	180°	73°	100°	120°	140°	160°	180°
1/2	5	4 1/2	4 1/2	4	2 1/2	2 1/2	5 1/2	5	4 1/2	4 1/2	3	2 1/2
3/4	5	5	4 1/2	4	2 1/2	2 1/2	5 1/2	5 1/2	5	4 1/2	3	2 1/2
1	5 1/2	5 1/2	5	4 1/2	3	2 1/2	6	6	5 1/2	5	3 1/2	3
1 1/4	5 1/2	5 1/2	5 1/2	5	3	3	6 1/2	6	6	5 1/2	3 1/2	3
1 1/2	6	6	5 1/2	5	3 1/2	3	7	6 1/2	6	5 1/2	3 1/2	3 1/2
2	6	6	5 1/2	5	3 1/2	3	7	7	6 1/2	6	4	3 1/2
2 1/2	7	7	6 1/2	6	4	3 1/2	8	7 1/2	7 1/2	6 1/2	4 1/2	4
3	7	7	7	6	4	3 1/2	8	8	7 1/2	7	4 1/2	4
3 1/2	7 1/2	7 1/2	7	6 1/2	4	4	8 1/2	8 1/2	8	7 1/2	5	4 1/2
4	7 1/2	7 1/2	7	6 1/	4 1/2	4	8 1/2	9	8 1/2	7 1/2	5	4 1/2
6	8 1/2	8	7 1/2	7	5	4 1/2	10	9 1/2	9	8	5 1/2	5
8	9 1/2	9	8 1/2	7 1/2	5 1/2	5	11	10 1/2	10	9	6	5 1/2
10	10 1/2	10	9 1/2	8	6	5 1/2	11 1/2	11	10 1/2	9 1/2	6 1/2	6
12	11 1/2	10 1/2	10	8 1/2	6 1/2	6	12 1/2	12	11 1/2	10 1/2	7 1/2	6 1/2

Notes:

1. Charts above are not applicable where loads between supports are concentrated (e.g. valves, flanges, expansion joints, etc.), or where there is a change in line direction. Hangers/supports should be located adjacent to joints, branch connections and changes in direction.
2. Risers should be installed independently of adjacent horizontal hangers/supports.
3. Cast Iron Pipe: maximum spacing should be 12 feet with at least one hanger/support for each pipe section.

Load Ratings of Carbon Steel Threaded Rod

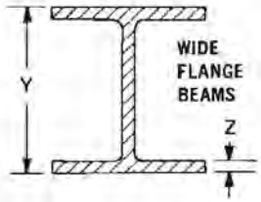
Nominal Rod Diameter (in inches)	Root Area of Coarse Thread (in^2)	Maximum Safe Load (lbs) Rod Temperature, 650°F	Maximum Safe Load (lbs) Rod Temperature, 750°F
1/4	0.027	240	210
3/8	0.068	610	540
1/2	0.126	1130	1010
5/8	0.202	1810	1610
3/4	0.302	2710	2420
7/8	0.419	3770	3360
1	0.552	4960	4420
1 1/8	0.693	6230	5560
1 1/4	0.889	8000	7140
1 1/2	1.293	11630	10370
1 3/4	1.744	15700	14000
2	2.292	20700	18460
2 1/4	3.021	27200	24260
2 1/2	3.716	33500	29880

Maximum Applied Torques C-Clamps & Top Beam Clamps

Thread Size	Torque Value (lbs)
1/4	40
3/8	60
1/2	125
5/8	250
3/4	400
7/8	665
Extracted from MSS-SP-69 (types 19 & 23)	

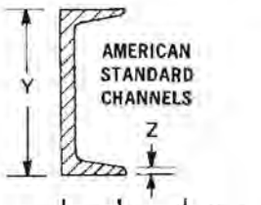
The ultimate load-carrying capacity of a clamp is rapidly reduced when the set screw is excessively turned upon clamp installation. Proper installation technique is to set the screw finger tight, then turn the set screw a one half to three quarter turn. Extra turning will open up the clamp and cause the rod hole to be out of alignment.

BEAM DIMENSIONS (inches) • WEIGHTS



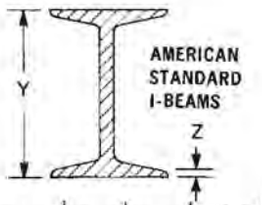
WIDE FLANGE BEAMS

Nominal Size, Y	Wgt. per ft., lb.	Flange width	Thick. of fl'g., Z
5	18.5	5	.420
6	25	6	.456
8	17	5¼	.308
	20	5¼	.378
	24	6½	.398
	28	6½	.463
	31	8	.433
	35	8	.493
	40	8⅛	.558
	48	8⅛	.683
	58	8¼	.808
	67	8¼	.933
10	21	5¾	.340
	25	5¾	.430
	29	5¾	.500
	33	8	.433
	39	8	.528
	45	8	.618
	49	10	.558
	54	10	.618
	60	10⅛	.683
	66	10⅛	.748
	72	10⅛	.808
	77	10¼	.868
	89	10¼	.998
	100	10⅜	1.118
	112	10⅜	1.248
12	27	6½	.400
	31	6½	.465
	36	6⅝	.540
	40	8	.516
	45	8	.576
	50	8⅛	.641
	53	10	.575
	58	10	.641
	65	12	.606
	72	12	.671
	79	12⅛	.736
	85	12⅛	.796
	92	12⅛	.856
	99	12¼	.921
	106	12¼	.986
	120	12⅜	1.106
	133	12⅜	1.236
	161	12½	1.486
	190	12⅝	1.736
14	30	6¾	.383
	34	6¾	.453
	38	6¾	.513
	43	8	.528
	48	8	.593
	53	8	.658
	61	10	.643
	68	10	.718
	74	10⅛	.783
	78	12	.718
	84	12	.778
	87	14½	.688
	95	14½	.748
	103	14⅝	.813
14	111	14⅝	.873
	119	14⅝	.938
	127	14¾	.998
	136	14¾	1.063
	142	15½	1.063
	150	15½	1.128
	158	15½	1.188
	167	15⅝	1.248
	176	15⅝	1.313
	184	15⅝	1.378
	193	15¾	1.438
	202	15¾	1.503
	211	15¾	1.563
	219	15⅞	1.623
	228	15⅞	1.688
	237	15⅞	1.748
16	36	7	.428
	40	7	.503
	45	7	.563
	50	7⅛	.628
	58	8½	.645
	64	8½	.715
	71	8½	.795
	78	8⅝	.875
	88	11½	.795
	96	11½	.875
18	50	7½	.570
	55	7½	.630
	60	7½	.695
	64	8¾	.686
	70	8¾	.751
	77	8¾	.831
	85	8⅞	.911
	96	11¾	.831
	105	11¾	.911
	114	11⅞	.991
21	62	8¼	.615
	68	8¼	.685
	73	8¼	.740
	82	9	.795
	96	9	.935
	112	13	.865
	127	13	.985
	142	13⅛	1.095
24	76	9	.682
	84	9	.772
	94	9	.872
	100	12	.775
	110	12	.885
	120	12⅛	.930
	130	14	.900
	145	14	1.020
	160	14⅛	1.135
27	94	10	.747
	102	10	.827
	114	10⅛	.932
	145	14	.975
	160	14	1.075
	177	14⅛	1.190
30	108	10½	.750
	116	10½	.875
	124	10½	.930
	132	10½	1.00
	172	15	1.065
	190	15	1.185
	210	15⅛	1.315



AMERICAN STANDARD CHANNELS

Depth of Section, Y	Wgt. per ft., lb.	Flange width	Mean Thick. of fl'g., Z
3	4.1	1⅜	.25
	5.0	1½	
	6.0	1⅝	
4	5.4	1⅝	.313
	7.25	1¾	
5	6.7	1¾	.313
	9.0	1⅞	
6	8.2	1⅞	.375
	10.5	2	
	13.0	2⅛	
7	9.8	2⅛	.375
	12.25	2¼	
	14.75	2¼	
8	11.5	2¼	.375
	13.75	2⅜	
	18.75	2½	
9	13.4	2⅜	.438
	15.0	2½	
	20.0	2⅝	
10	15.3	2⅝	.438
	20.0	2¾	
	25.0	2⅞	
	30.0	3	
12	20.7	3	.50
	25.0	3	
	30.0	3⅛	
15	33.9	3⅜	.625
	40.0	3½	
	50.0	3¾	
18	42.7	4	.625
	45.8	4	
	51.9	4⅛	
	58	4½	



AMERICAN STANDARD I-BEAMS

Depth of section, Y	Wgt. per ft., lb.	Flange width	Mean Thick. of fl'g., Z
3	5.7	2⅜	.25
	7.5	2½	
4	7.7	2⅝	.313
	9.5	2¾	
5	10.0	3	.313
	14.75	3¼	
6	12.5	3⅜	.375
	17.25	3⅝	
7	15.3	3⅝	.375
	20.0	3⅞	
8	18.4	4	.438
	23.0	4⅛	
10	25.4	4⅝	.50
	35.0	5	
12	31.8	5	.563
	35.0	5⅛	
	40.8	5¼	.688
	50.0	5½	
15	42.9	5½	.625
	50.0	5⅝	
18	54.7	6	.688
	70.0	6¼	
20	65.4	6¼	.813
	75.0	6⅜	
	85.0	7	.938
	95.0	7¼	
24	79.9	7	.875
	90.0	7⅛	
	100.0	7¼	
	105.9	7⅜	1.125
	120.0	8	

Steel Pipe Data SCHEDULE 40 & 80

Pipe Size	Pipe O.D.	Schedule No.	Wall Thickness	Weight Per Foot (lbs)	
				Pipe	Pipe filled with water
3/8	0.675	40	0.091	0.567	0.650
		80	0.126	0.740	0.800
1/2	0.84	40	0.109	0.850	0.980
		80	0.147	1.090	1.190
3/4	1.05	40	0.113	1.130	1.360
		80	0.154	1.470	1.660
1	1.315	40	0.133	1.680	2.050
		80	0.179	2.170	2.480
1 1/4	1.66	40	0.140	2.270	2.920
		80	0.191	3.000	3.550
1 1/2	1.9	40	0.145	2.720	3.600
		80	0.200	3.630	4.400
2	2.375	40	0.154	3.650	5.100
		80	0.218	5.020	6.300
2 1/2	2.875	40	0.230	5.790	7.860
		80	0.276	7.660	9.490
3	3.5	40	0.216	7.580	10.780
		80	0.300	10.250	13.110
3 1/2	4	40	0.226	9.110	13.400
		80	0.318	12.510	16.360
4	4.5	40	0.237	10.790	16.300
		80	0.337	14.980	19.960
5	5.563	40	0.258	14.620	23.290
		80	0.375	20.780	28.660
6	6.625	40	0.280	18.970	31.490
		80	0.432	28.570	39.860
8	8.625	40	0.322	28.550	50.150
		80	0.500	43.390	63.190
10	10.75	40	0.365	40.480	74.580
		80	0.593	64.400	95.500
12	12.75	40	0.406	53.600	102.100
		80	0.687	88.600	132.600
14	14	40	0.437	63.000	121.500
		80	0.750	107.000	158.200
16	16	40	0.500	83.000	159.500
		80	0.843	137.000	206.700
18	18	40	0.563	105.000	202.200
		80	0.937	171.000	259.500
20	20	40	0.593	123.000	243.400
		80	1.031	209.000	318.400
24	24	40	0.687	171.000	345.200
		80	1.218	297.000	455.200
30	30	20	0.500	158.000	444.000
36	36	API	0.500	190.000	607.000

Copper Tubing Data

Type L					
Tube Size	Tubing O.D.	Tubing O.D. (inches)	Wall Thickness	Weight per Foot (lbs)	
				Tubing	Tubing Filled with Water
1/4	3/8	0.375	0.030	0.126	0.160
3/8	1/2	0.500	0.035	0.198	0.260
1/2	5/8	0.625	0.040	0.285	0.385
5/8	3/4	0.750	0.042	0.362	0.513
3/4	7/8	0.875	0.045	0.455	0.664
1	1 1/8	1.125	0.050	0.655	1.012
1 1/4	1 3/8	1.375	0.055	0.884	1.430
1 1/2	1 5/8	1.625	0.060	1.140	1.910
2	2 1/8	2.125	0.070	1.750	3.091
2 1/2	2 5/8	2.625	0.080	2.480	4.544
3	3 1/8	3.125	0.090	3.330	6.279
3 1/2	3 5/8	3.625	0.100	4.290	8.279
4	4 1/8	4.125	0.110	5.380	10.568
5	5 1/8	5.125	0.125	7.610	15.691
6	6 1/8	6.125	0.140	10.200	21.816
8	8 1/8	8.125	0.200	19.290	39.579
10	10 1/8	10.125	0.250	30.100	61.690
12	12 1/8	12.125	0.280	40.400	85.826

Type K					
Tube Size	Tubing O.D.	Tubing O.D. (inches)	Wall Thickness	Weight per Foot (lbs)	
				Tubing	Tubing Filled with Water
1/4	3/8	0.375	0.035	0.145	0.177
3/8	1/2	0.500	0.049	0.269	0.324
1/2	5/8	0.625	0.049	0.344	0.438
5/8	3/4	0.750	0.049	0.418	0.562
3/4	7/8	0.875	0.065	0.641	0.829
1	1 1/8	1.125	0.065	0.839	1.176
1 1/4	1 3/8	1.375	0.065	1.040	1.567
1 1/2	1 5/8	1.625	0.072	1.360	2.103
2	2 1/8	2.125	0.083	2.060	3.370
2 1/2	2 5/8	2.625	0.095	2.920	4.920
3	3 1/8	3.125	0.109	4.000	6.960
3 1/2	3 5/8	3.625	0.120	5.120	9.020
4	4 1/8	4.125	0.134	6.510	11.570
5	5 1/8	5.125	0.160	9.670	17.670
6	6 1/8	6.125	0.192	13.870	25.070
8	8 1/8	8.125	0.271	25.900	45.400
10	10 1/8	10.125	0.338	40.300	70.723
12	12 1/8	12.125	0.405	57.800	101.475

AWWA Ductile Iron Pipe Data

Thickness and dimensions of 3" through 64" Ductile Iron Pipe conform to ANSI/AWWA C151/A21.51.					
Nom. Pipe Size	Thickness Class	O.D. D.I. Pipe	Wall Thickness	Weight per Foot (lbs)	
				Pipe	Pipe Filled with Water
3	53	3.96	.31	11.40	15.20
4	53	4.80	.32	14.40	20.30
6	53	6.90	.34	22.20	35.30
8	53	9.05	.36	31.50	54.50
10	53	11.10	.38	41.10	77.50
12	53	13.20	.40	51.60	103.90
14	53	15.30	.42	63.60	134.70
16	53	17.40	.43	74.30	167.40
18	53	19.50	.44	85.40	203.30
20	53	21.60	.45	96.90	242.70
24	53	25.80	.47	121.10	422.30
30	53	32.00	.51	163.80	490.30
36	53	38.30	.58	223.60	692.90
42	53	44.50	.65	293.60	928.50
48	53	50.80	.72	370.50	1199.40

Weights are based on thickness Class 53. Due to numerous pressure and thickness classes, varying pipe lengths and piping connections (eg. bell and gasket, mechanical, etc.) above weights should be considered an average for all ductile iron piping systems.

AWWA C-900 PVC Water Pipe Data - Class 100, 150, 200

Nom Size	O.D. C-900	Wall Thickness	Weight per Foot (lbs)	
			Pipe	Pipe Filled with Water
DR 25 -- CLASS 100				
4	4.800	0.192	1.846	10.290
6	6.900	0.276	3.831	21.290
8	9.050	0.362	6.618	36.648
10	11.100	0.444	10.005	55.190
12	13.200	0.528	14.180	78.080
DR 18 -- CLASS 150				
4	4.800	0.267	2.522	10.400
6	6.900	0.383	5.226	21.518
8	9.050	0.503	9.040	37.077
10	11.100	0.617	13.666	55.836
12	13.200	0.733	19.354	79.000
DR 14 -- CLASS 200				
4	4.800	0.343	3.182	10.515
6	6.900	0.493	6.605	21.745
8	9.050	0.646	11.410	37.480
10	11.100	0.793	17.250	56.480
12	13.200	0.943	24.450	79.910

SERVICE WEIGHT CAST IRON SOIL PIPE DATA (Bell & Spigot Type)

Nominal Pipe Size	O.D. of Cast Iron Pipe (Barrel)	Wall Thickness	Weight Per Foot (lbs)	
			Pipe*	Pipe Filled With Water
2	2.30	.170	4.10	5.60
3	3.30	.170	6.00	9.40
4	4.30	.180	7.90	14.10
5	5.30	.180	10.00	22.30
6	6.30	.180	12.40	26.30
8	8.38	.230	18.10	43.80
10	10.50	.280	26.00	66.60
12	12.50	.280	34.60	92.80
15	15.88	.360	52.50	149.10

* Based on 10 foot length

EXTRA HEAVY CAST IRON SOIL PIPE DATA (Bell & Spigot Type)

Nominal Pipe Size	O.D. of Cast Iron Pipe (Barrel)	Wall Thickness	Weight Per Foot (lbs)	
			Pipe*	Pipe Filled With Water
2	2.38	.190	4.50	6.10
3	3.50	.250	8.40	12.10
4	4.50	.250	10.50	17.00
5	5.50	.250	13.40	23.60
6	6.50	.250	15.70	30.40
8	8.62	.310	24.60	50.70
10	10.75	.370	37.50	78.30
12	12.75	.370	47.10	105.90
15	15.88	.440	67.60	159.40

* Based on 10 foot length

NO-HUB CAST IRON SOIL PIPE DATA

Nominal Pipe Size	O.D. of Cast Iron Pipe	Wall Thickness	Weight Per Foot (lbs)	
			Pipe	Pipe Filled With Water
1 1/2	1.90	.16	2.9	6.40
2	2.35	.16	3.8	8.80
3	3.35	.16	5.4	13.70
4	4.38	.19	7.1	19.90
5	5.30	.19	9.8	27.70
6	6.30	.19	11.8	34.80
8	8.38	.23	16.5	56.00
10	10.56	.28	25.5	68.84
12	12.50	.28	31.8	94.31
15	15.83	.36	49.3	145.50

CPVC Plastic Pipe Data - SCHEDULE 40 & 80

Pipe Size	O.D. CPVC PLASTIC PIPE	Schedule No.	Wall Thickness	Weight Per Foot (in LBS)	
				Pipe	Pipe Filled With Water
3/8	0.675	40	0.091	.122	.205
		80	0.126	.154	.215
1/2	0.840	40	0.109	.180	.312
		80	0.147	.225	.326
3/4	1.050	40	0.113	.239	.469
		80	0.154	.305	.491
1	1.315	40	0.133	.352	.726
		80	0.179	.449	.760
1 1/4	1.660	40	0.140	.475	1.122
		80	0.191	.618	1.173
1 1/2	1.900	40	0.145	.568	1.450
		80	0.200	.751	1.516
2	2.375	40	0.154	.761	2.213
		80	0.218	1.040	2.319
2 1/2	2.875	40	0.203	1.201	3.273
		80	0.276	1.584	3.418
3	3.500	40	0.216	1.572	4.772
		80	0.300	2.124	4.984
3 1/2	4.000	40	0.226	1.905	6.185
		80	0.318	2.607	12.642
4	4.500	40	0.237	2.239	7.749
		80	0.337	3.105	8.085
5	5.563	40	0.258	3.062	11.722
		80	0.375	4.343	12.213
6	6.625	40	0.280	3.945	16.455
		80	0.432	5.929	17.219
8	8.625	40	0.322	5.920	27.520
		80	0.500	9.051	28.851
10	10.750	40	0.365	8.406	42.506
		80	0.593	13.429	44.529
12	12.750	40	0.406	11.172	59.672
		80	0.687	18.458	62.458
14	14.00	40	0.437	13.262	71.762
		80	0.750	22.224	73.424
16	16.00	40	0.500	17.312	93.812
		80	0.843	28.557	98.257

PVC Plastic Pipe Data - SCHEDULE 40 & 80

Pipe Size	O.D. PVC PLASTIC PIPE	Schedule No.	Wall Thickness	Weight Per Foot (lbs)	
				Pipe	Pipe Filled With Water
3/8	0.675	40	0.091	.109	.192
		80	0.126	.138	.199
1/2	0.840	40	0.109	.161	.293
		80	0.147	.202	.303
3/4	1.050	40	0.113	.214	.444
		80	0.154	.273	.459
1	1.315	40	0.133	.315	.689
		80	0.179	.402	.713
1 1/4	1.660	40	0.140	.426	1.073
		80	0.191	.554	1.109
1 1/2	1.900	40	0.145	.509	1.391
		80	0.200	.673	1.438
2	2.375	40	0.154	.682	2.134
		80	0.218	.932	2.211
2 1/2	2.875	40	0.203	1.076	3.148
		80	0.276	1.419	3.253
3	3.500	40	0.216	1.409	4.609
		80	0.300	1.903	4.763
3 1/2	4.000	40	0.226	1.697	5.977
		80	0.318	2.322	6.172
4	4.500	40	0.237	2.006	7.510
		80	0.337	2.782	7.762
5	5.563	40	0.258	2.726	11.386
		80	0.375	3.867	11.737
6	6.625	40	0.280	3.535	16.045
		80	0.432	5.313	16.603
8	8.625	40	0.322	5.305	26.905
		80	0.500	8.058	27.858
10	10.750	40	0.365	7.532	41.632
		80	0.593	11.956	43.056
12	12.750	40	0.406	9.949	58.449
		80	0.687	16.437	60.437
14	14.000	40	0.437	11.810	70.310
		80	0.750	19.790	70.990
16	16.000	40	0.500	15.416	91.916
		80	0.843	25.430	95.130
18	18.000	40	0.563	20.112	117.312
		80	0.937	31.830	120.330
20	20.000	40	0.593	23.624	144.024
		80	1.031	40.091	149.491
24	24.000	40	0.687	32.873	207.073
		80	1.218	56.882	215.082

Vinyl Coated Hanger Supports

I.T.P. offers many products with a vinyl coating which prevents galvanic reaction between materials, reduces noise and can be used where contact between plastic or glass pipe and the metal hanger/support is not desirable. The items shown below are readily available with vinyl coating. Other items are available upon request.



FIG. 50 P.C.
RISER CLAMP

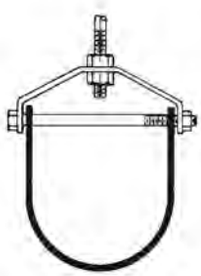


FIG. 110 P.C.
CLEVIS HANGER



FIG. 137 P.C.
U-BOLT



FIG. 31 P.C.
BAND HANGER



FIG. 310 P.C.
"EM-LOK"



FIG. 235 P.C.
WIRE PIPE HOOK



FIG. 237 P.C.
DWV PIPE HANGER

SDR-35 PVC Sewer Pipe Data

Nominal Size	O.D. SDR-35 PVC Sewer Pipe	Wall Thickness	Weight Per Foot (lbs)
			Pipe*
4	4.215	.120	1.053
6	6.275	.180	2.361
8	8.400	.240	4.222
10	10.500	.300	6.617
12	12.500	.360	9.480
15	15.300	.437	14.219
18	18.701	.536	21.510
21	22.047	.632	30.261
24	24.803	.711	38.642

* Based on 13 foot length

Glass Pipe Data

Pipe Size	O.D. Glass Pipe	Schedule	Wall Thickness	Weight Per Foot (lbs)	
				Pipe	Pipe Filled With Water
1	1.31	Heavy	.16	.60	.95
1 1/2	1.84	Regular	.12	.64	1.53
		Heavy	.17	.87	1.63
2	2.34	Regular	.14	.94	2.39
		Heavy	.17	1.10	2.46
3	3.41	Regular	.17	1.60	4.79
		Heavy	.20	2.00	5.06
4	4.53	Regular	.20	2.60	8.39
		Heavy	.26	3.40	8.84
6	6.66	Regular	.24	4.70	17.48
		Heavy	.33	6.30	18.72

Spacing of hangers for glass pipe should be every 8-10 feet.
Hangers should be padded or vinyl coated.

Rigid Steel Conduit Data (Heavy Wall Conduit)

Nominal Size EMT Conduit	O.D. Conduit	Weight Conduit w/coupling	Approx. Weight Conduit and Conductor (lbs/ft.)	
			Lead Covered	Not Lead Covered
3/8	.675	.515	.805	.651
1/2	.840	.80	1.17	1.04
3/4	1.050	1.09	1.75	1.40
1	1.315	1.65	2.62	2.35
1 1/4	1.660	2.15	4.31	3.58
1 1/2	1.900	2.58	5.89	4.55
2	2.375	3.52	8.53	7.21
2 1/2	2.875	5.67	11.51	10.22
3	3.500	7.14	16.51	14.51
3 1/2	4.000	8.60	19.05	17.49
4	4.500	10.00	24.75	21.48
5	5.563	13.20	35.87	30.83
6	6.625	17.85	50.69	43.43

Electrical Metallic Tubing Data

Nominal Size EMT Conduit	O.D. Conduit	Weight Conduit w/cp/g	Approx. Weight Conduit and Conductor lbs/ft.
3/8	.577	.23	.366
1/2	.706	.29	.54
3/4	.922	.45	1.16
1	1.163	.65	1.83
1 1/4	1.510	.96	2.96
1 1/2	1.740	1.11	3.68
2	2.197	1.41	4.45
2 1/2	2.875	2.15	6.41
3	3.500	2.60	9.30
3 1/2	4.000	3.25	12.15
4	4.500	3.90	15.40

Intermediate Metal Conduit Data

Nominal Size EMT Conduit	O.D. Conduit	Weight Conduit w/coupling	Approx. Weight Conduit and Conductor (lbs/ft.)	
			Lead Covered	Not Lead Covered
1/2	.815	.60	.97	.84
3/4	1.029	.82	1.48	1.13
1	1.290	1.16	2.13	1.86
1 1/4	1.638	1.50	3.66	2.93
1 1/2	1.883	1.82	5.13	3.79
2	2.360	2.42	7.43	6.11
2 1/2	2.857	4.28	10.12	8.83
3	3.476	5.26	14.63	12.63
3 1/2	3.971	6.12	16.57	15.01
4	4.466	6.82	21.57	18.30

TECHNICAL INFORMATION

THERMAL EXPANSION OF PIPE MATERIALS

Dimensions

Inches Per Foot
Millimeters Per Meter

TEMPERATURE	CARBON STEEL THROUGH 3% CCR MO	ALLOY STEELS THROUGH 9% CR MO	STAINLESS STEELS (304, 316, 347)	COPPER	BRASS	ALUMINUM
0	-0.0051		-0.0078	-0.0079	-0.0081	-0.0104
-17.8	-0.4250		-0.6500	-0.6583	-0.6750	-0.8666
50	-0.0015		-0.0022	-0.0022	-0.0023	-0.0030
10.0	-0.1250		-0.1833	-0.1833	-0.1917	-0.2500
70	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100	0.0023	0.0022	0.0034	0.0034	0.0035	0.0046
37.8	0.1917	0.1833	0.2833	0.2833	0.2917	0.3833
150	0.0061	0.0058	0.0090	0.0091	0.0093	0.0123
65.6	0.5083	0.4833	0.7500	0.7583	0.7750	1.0250
200	0.0099	0.0094	0.0146	0.0151	0.0152	0.0200
93.3	0.8250	0.7833	1.2166	1.2583	1.2666	1.6666
250	0.0141	0.0132	0.0203	0.0208	0.0214	0.0283
121	1.1750	1.1000	1.6916	1.7333	1.7833	2.3582
300	0.0182	0.0171	0.0261	0.0267	0.0276	0.0366
149	1.5166	1.4249	2.1749	2.2249	2.2999	3.0499
350	0.0266	0.0210	0.0321	0.0327	0.0340	0.0452
177	1.8833	1.7499	2.6749	2.7249	2.8332	3.7665
400	0.0270	0.0250	0.0380	0.0388	0.0405	0.0539
204	2.2499	2.0833	3.1665	3.2332	3.3749	4.4195
450	0.0316	0.0292	0.0440	0.0449	0.0472	0.0628
232	2.6332	2.4332	3.6665	3.7415	3.9332	5.2331
500	0.0362	0.0335	0.0501	0.0512	0.0540	0.0717
260	3.0165	2.7916	4.1748	4.2665	4.4998	5.9748
550	0.0411	0.0379	0.0562	0.0574	0.0610	0.0810
288	3.4249	3.1582	4.6831	4.7831	5.0831	6.7497
600	0.0460	0.0424	0.0624	0.0639	0.0680	0.0903
316	3.8332	3.5332	5.1998	5.3248	5.6664	7.5247
650	0.0512	0.0469	0.0687	0.0703	0.0753	
343	4.2665	3.9082	5.7248	5.8581	6.2747	
700	0.0563	0.0514	0.0750	0.0768	0.0826	
371	4.6915	4.2832	6.2498	6.3997	6.8831	
750	0.0617	0.0562	0.0815	0.0834	0.0902	
399	5.1415	4.6831	6.7914	6.9497	7.5164	
800	0.0670	0.0610	0.0880	0.0900	0.0978	
427	5.5831	5.0831	7.3330	7.4997	8.1497	
850	0.0726	0.0658	0.0946	0.0967	0.1056	
454	6.0498	5.4831	7.8830	8.0580	8.7996	
900	0.0781	0.0707	0.1012	0.1037	0.1135	
482	6.5081	5.8914	8.4330	8.6413	9.4580	
950	0.0835	0.0756	0.1080	0.1105	0.1216	
510	6.9581	6.2997	8.9996	9.2080	10.1329	
1000	0.0889	0.0806	0.1148	0.1175	0.1298	
538	7.4080	6.7164	9.5663	9.7913	10.8162	
1050	0.0946	0.0855	0.1216			
566	7.8830	7.1247	10.1329			
1100	0.1004	0.0905	0.1284			
593	8.3663	7.5414	10.6996			

TECHNICAL INFORMATION

MAXIMUM HORIZONTAL HANGER SPACING

NOMINAL PIPE SIZE OR TUBE DIA.	STANDARD WEIGHT STEEL PIPE SERVICE (FEET/METERS)		COPPER TUBING SERVICE (FEET/METERS)	
	WATER	VAPOR	WATER	VAPOR
1/4	7	8	5	45
8	21.3	2.44	1.52	1.52
3/8	7	8	5	6
10	2.13	2.44	1.52	1.83
1/2	7	8	5	6
15	2.13	2.44	1.52	1.83
3/4	7	9	5	7
20	2.13	2.74	1.52	2.13
1	7	9	6	8
25	2.13	2.74	1.83	2.44
1 1/4	7	9	7	9
32	2.13	2.74	2.13	2.74
1 1/2	9	12	8	10
40	2.74	3.66	2.44	3.05
2	10	13	8	11
50	3.05	3.96	2.44	3.35
2 1/2	11	14	9	13
65	3.35	4.27	2.74	3.96
3	12	15	10	14
80	3.66	4.57	3.05	4.27
3 1/2	13	16	11	15
90	3.96	4.88	3.35	4.57
4	14	17	12	16
100	4.27	5.18	3.66	4.88
5	16	19	13	18
125	4.88	5.79	3.96	5.49
6	17	21	14	20
150	5.18	6.40	4.27	6.10
8	19	24	16	23
200	5.79	7.32	4.88	7.01
10	22	26	18	25
250	6.71	7.92	5.49	7.62
12	23	30	19	28
300	7.01	9.14	5.79	8.53
14	25	32		
350	7.62	9.75		
16	27	35		
400	8.23	10.67		
18	28	37		
450	8.53	11.28		
20	30	39		
500	9.14	11.89		
24	32	42		
600	9.75	12.80		
30	33	44		
750	10.06	13.41		

Note: Local codes and specifications may require hanger spacing less than the values shown above.

GAUGE THICKNESS

GAUGE	MINIMUM	NOMINAL
3	0.215	0.239
3	5.461	6.071
7	0.167	0.179
7	4.242	4.547
11	0.108	0.120
11	2.743	3.048
12	0.093	0.105
12	2.362	2.667
13	0.080	0.090
13	2.032	2.286
14	0.066	0.075
14	1.676	1.905
16	0.053	0.060
16	1.346	1.524
18	0.042	0.048
18	1.067	1.219

TECHNICAL INFORMATION

USEFUL WEIGHT FORMULAS

PIPE
Weight (lb/ft) = 10.68 x T x (D - T) x F

PIPE CONTENTS
Weight (lb/ft) = 0.3405 x G x $(D - 2T)^2$

LEGEND
D = Outside Diameter (inches)
F = Material Weight Factor
G = Specific Gravity of Pipe Contents
Normally 1.0 for water, 0 for air and steam.
L = Length (inches)
T = Pipe Wall, Plate, or Bar Thickness (inches)
W = Width (inches)

PLATE AND BAR
Weight (lb) = 0.2833 x T x W x L x F

ROUND ROD
Weight (lb/ft) = $2.67D^2$

MATERIAL WEIGHT FACTORS
Carbon Steel & Cr-Mo 1.00
Aluminum 0.35
Brass 1.12
Cast Iron 0.91
Copper 1.14
Ferritic stainless steel 0.95
Austenitic stainless steel 1.02
Wrought iron 0.98

CALCULATING OF PIPE INSULATION WEIGHT

The weight per foot of insulation is calculated by using the weight factor "X" from the table below and multiplying by the insulation density (lbs/cu-ft).

EXAMPLE: A 16" pipe with 3½" of insulation is found to have a weight factor of 1.49 (from table below.) With an insulation density of 11 lb/cu-ft, the calculation for insulation weight is 1.49 x 11 = 16.39

INSULATION WIGHT FACTOR – X

NOMINAL PIPE SIZE	NOMINAL INSULATION THICKNESS										
	1"	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"
1	.057	.10	.16	.23	.31	.40					
1¼	.051	.12	.15	.22	.30	.39					
1½	.066	.11	.21	.29	.38	.48					
2	.080	.14	.21	.29	.37	.47	.59				
2½	.091	.19	.27	.36	.46	.58	.70	.83			
3	.100	.17	.25	.34	.44	.56	.68	.81			
2½	.150	.23	.31	.41	.54	.66	.78	—	.97		
4	.130	.21	.30	.39	.51	.63	.77	.96	1.10		
5	.150	.24	.34	.45	.58	.71	.88	1.04	1.20		
6	.170	.27	.38	.51	.64	.83	.97	1.13	1.34		
8		.34	.47	.66	.80	.97	1.17	1.36	1.56	1.75	
10		.43	.59	.75	.93	1.12	1.32	1.54	1.76	1.99	
12		.50	.68	.88	1.07	1.28	1.52	1.74	1.99	2.24	2.50
14		.51	.70	.90	1.11	1.34	1.57	1.81	2.07	2.34	2.62
16		.57	.78	1.01	1.24	1.49	1.74	2.01	2.29	2.58	2.88
18		.64	.87	1.12	1.37	1.64	1.92	2.21	2.51	2.82	3.14
20		.70	.93	1.23	1.50	1.79	2.09	2.40	2.73	3.06	3.40
24		.83	1.13	1.44	1.77	2.10	2.44	2.80	3.16	3.54	3.92

General Formula: For pipe sizes not shown in the table above (special O.D. pipe, etc.), use the following formula to determine the insulation weight:

Insulation Weight: (lb/ft) = 0.218 x I x T x (T + D)

Where: I = Insulation density (lb/cu-ft)
T = Insulation thickness (inches)
D = Outside diameter of pipe (inches)

TECHNICAL INFORMATION

HANGER SPACING FOR PVC AND CPVC PIPING

	PVC											CPVC											
PIPE		60º F		80º F		100º F		120º F		140º F		73º F		100º F		120º F		140º F		160º F		180º F	
Size	Sch.	ft	mm	ft	mm	ft	mm	ft	mm	ft	mm	ft	mm	ft	mm	ft	mm	ft	mm	ft	mm	ft	mm
½"	40	4.5	1.37	4.5	1.37	4.0	1.22	2.5	0.76	2.5	0.76	5.0	1.52	4.5	1.37	4.5	1.37	4.0	1.22	2.5	0.76	2.5	0.76
15mm	80	5.0	1.52	4.5	1.37	4.5	1.37	3.0	0.91	2.5	0.75	5.5	1.68	5.5	1.68	4.5	1.37	4.5	1.37	3.0	0.91	2.5	0.76
	120	5.0	1.52	5.0	1.52	4.5	1.37	3.0	0.91	2.5	0.76												
¾"	40	5.0	1.52	4.5	1.37	40.	1.22	2.5	0.76	2.5	0.76	5.0	1.52	5.0	1.52	4.5	1.37	4.0	1.22	2.5	0.76	2.5	0.76
20mm	80	5.5	1.68	5.0	1.52	4.5	1.37	3.0	0.91	2.5	0.76	5.5	1.68	5.5	1.68	5.0	1.52	4.5	1.37	3.0	0.91	2.5	0.76
	120	5.5	1.68	5.0	1.52	4.5	1.37	3.0	0.91	3.0	0.91												
1"	40	5.5	1.68	5.0	1.52	4.5	1.37	3.0	0.91	2.5	0.76	5.5	1.68	5.5	1.68	5.0	1.52	4.5	1.37	3.0	0.91	2.5	0.76
25mm	80	6.0	1.83	5.5	1.68	5.0	1.52	3.5	1.07	3.0	0.91	6.0	1.83	6.0	1.83	5.5	1.68	5.0	1.52	3.5	1.07	3.0	0.91
	120	6.0	1.83	5.5	1.68	5.0	1.52	3.5	1.07	3.0	0.91												
1¼"	40	5.5	1.68	5.5	1.68	5.0	1.52	3.0	0.91	3.0	0.91	5.5	1.68	5.5	1.68	5.5	1.68	5.0	1.52	3.0	1.07	3.0	0.91
32mm	80	6.0	1.89	6.0	1.83	5.5	1.68	3.5	1.07	3.0	0.91	6.5	1.98	6.0	1.83	6.0	1.83	5.5	1.68	3.5	1.07	3.0	0.91
	120	6.5	1.98	6.0	1.83	5.5	1.68	3.5	1.07	3.5	1.07												
1½"	40	6.0	1.83	5.5	1.68	5.0	1.52	3.5	1.07	3.0	0.91	6.0	1.83	6.0	1.83	5.5	1.68	5.0	1.52	3.5	1.07	3.0	0.91
40mm	80	6.5	1.98	6.0	1.83	5.5	1.68	3.5	1.07	3.5	1.07	7.0	2.13	6.5	1.98	6.0	1.83	5.5	1.68	3.5	1.22	3.5	1.07
	120	6.5	1.98	6.5	1.98	6.0	1.83	4.0	1.22	3.5	1.07												
2"	40	6.0	1.83	5.5	1.68	5.0	1.52	3.5	1.07	3.0	0.91	6.0	1.83	6.0	1.83	5.5	1.68	5.0	1.52	3.5	1.22	3.0	0.91
50mm	80	7.0	2.13	6.5	1.98	6.0	1.83	4.0	1.22	3.5	1.07	7.0	2.13	7.0	2.13	6.5	1.98	6.0	1.83	4.0	1.37	3.5	1.07
	120	7.5	2.29	7.0	2.13	6.5	1.98	4.0	1.22	3.5	1.07												
2½"	40	7.0	2.13	6.5	1.98	6.0	1.83	4.0	1.22	3.5	1.07	7.0	2.13	7.0	2.13	6.5	1.98	6.0	1.83	4.0	1.22	3.5	1.07
65mm	80	7.5	2.29	7.5	2.29	6.5	1.98	4.5	1.37	4.0	1.22	8.0	2.44	7.5	2.29	7.5	2.29	6.5	1.98	4.5	1.37	4.0	1.22
	120	8.5	2.44	7.5	2.29	7.0	2.13	4.5	1.37	4.0	1.22												
3"	40	7.0	2.13	7.0	2.13	6.0	1.83	4.0	1.22	3.5	1.07	7.0	2.13	7.0	2.13	7.0	2.13	6.0	1.83	4.0	1.22	3.5	1.07
80mm	80	8.0	2.44	7.5	2.29	7.0	2.13	4.5	1.37	4.0	1.22	8.0	2.44	8.0	2.44	7.5	2.29	7.0	2.13	4.5	1.37	4.0	1.22
	120	8.5	2.59	8.0	2.44	7.5	2.29	5.0	1.52	4.5	1.37												
3½"	40	7.5	2.29	7.0	2.13	6.5	1.98	4.0	1.22	4.0	1.22	7.5	2.29	7.5	2.29	7.0	2.13	6.5	1.98	4.0	1.22	4.0	1.22
90mm	80	8.5	2.59	8.0	2.44	7.5	2.29	5.0	1.52	4.5	1.37	8.5	2.59	8.5	2.59	8.0	2.44	7.5	2.29	5.0	1.52	4.5	1.37
4"	40	7.5	2.29	7.0	2.13	6.5	1.98	4.5	1.37	4.0	1.22	7.5	2.29	7.5	2.29	7.0	2.13	6.5	1.98	4.5	1.37	4.0	1.22
100mm	80	9.5	2.74	8.5	2.59	7.5	2.29	5.0	1.52	4.5	1.37	8.5	2.59	9.0	2.74	8.5	2.59	7.5	2.29	5.0	1.52	4.5	1.37
	120	9.5	2.90	9.0	2.74	8.5	2.59	5.5	1.68	5.0	1.52												
5"	40	8.0	2.44	7.5	2.29	7.0	2.13	4.5	1.37	4.0	1.22	8.0	2.44	8.0	2.44	7.5	2.29	7.0	2.13	5.0	1.52	4.5	1.37
125mm	80	9.5	2.90	9.0	2.74	8.0	2.44	5.5	1.68	5.0	1.52	9.0	2.74	9.0	2.74	8.5	2.59	8.0	2.44	5.5	1.68	5.0	1.52
6"	40	8.5	2.59	8.0	2.44	7.5	2.29	5.0	1.52	4.5	1.37	8.5	2.59	8.0	2.44	7.5	2.29	7.0	2.13	5.0	1.52	4.5	1.37
150mm	80	10.0	3.05	9.5	2.90	9.0	2.74	6.0	1.83	5.0	1.52	10.0	3.05	9.5	2.90	9.0	2.74	8.0	2.44	5.5	1.68	5.0	1.52
	120	11.5	3.51	10.5	3.20	9.5	2.90	6.5	1.98	6.0	1.83												
8"	40	9.0	2.74	8.5	2.59	8.0	2.44	5.0	1.52	4.5	1.37	9.5	2.90	9.0	2.74	8.5	2.59	7.5	2.29	5.5	1.68	5.0	1.52
200mm	80	11.0	3.35	10.5	3.20	9.5	2.90	6.5	1.98	5.5	1.68	11.0	3.35	10.5	3.20	10.0	3.05	9.0	2.74	6.0	1.83	5.5	1.68
10"	40	10.0	3.05	9.0	2.74	8.5	2.59	5.5	1.68	5.0	1.52	10.5	3.20	10.0	3.05	9.5	2.90	8.0	2.44	6.0	1.83	0.56	0.17
250mm	80	12.0	3.66	11.0	3.35	10.0	3.05	7.0	2.13	6.0	1.83	11.5	3.51	11.0	3.35	10.5	3.20	9.5	2.90	6.5	1.98	0.60	0.18
12"	40	11.5	3.51	10.5	3.20	9.5	2.90	6.5	1.98	5.5	1.68	11.5	3.51	10.5	3.20	10.5	3.05	8.5	2.59	6.5	1.98	6.0	1.83
300mm	80	13.0	3.39	12.0	3.66	10.5	3.20	7.5	2.29	6.5	1.98	12.5	3.81	12.0	3.66	11.5	3.51	10.5	3.20	7.5	2.29	6.5	1.98
14"	40	12.0	3.66	11.0	3.35	10.0	3.05	7.0	2.13	6.0	1.83												
350mm	80	13.5	4.11	13.0	3.96	11.0	3.35	8.0	2.44	7.0	2.13												
16"	40	12.5	3.81	11.5	3.51	10.5	3.21	7.5	2.29	6.5	1.98												
400mm	80	14.0	4.27	13.5	4.11	11.5	3.51	8.5	2.59	7.5	2.29												
18"	40	13.0	3.96	12.0	3.66	11.0	3.35	8.0	2.44	7.0	2.13												
450mm	80	14.5	4.42	14.0	4.27	12.0	3.66	9.0	2.74	8.0	2.44												
20"	40	13.5	4.11	12.5	3.81	11.5	3.51	8.5	2.59	7.5	2.29												
500mm	80	15.0	4.57	14.5	4.42	12.5	3.81	9.5	2.90	8.5	2.59												
24"	40	14.0	4.27	13.0	3.96	12.0	3.66	9.0	2.74	8.0	2.44												
600mm	80	18.5	5.64	15.0	4.57	13.0	3.96	10.0	3.05	9.0	2.74												

REFERENCE DATA – METRIC CONVERSION CHART

	TO CONVERT FROM	TO	MULTIPLY BY
Angle	degree	radian (rad)	1.745329×10^{-2}
	radian (rad)	degree	$5.729578 \times 10^{+1}$
Area	foot^2	square meter (m^2)square meter (m^2)	9.290304×10^{-2}
	inch^2	square meter (m^2)	6.451600×10^{-4}
	circular mil	square inch (in^2)	5.067075×10^{-10}
	square centimeter (cm^2)	foot^2	1.550003×10^{-1}
	square meter (m^2)	inch^2	$1.076391 \times 10^{+1}$
	square meter (m^2)	circular mil	$1.550003 \times 10^{+3}$
	square meter (m^2)		$1.973525 \times 10^{+9}$
Bending Moment of Torque	lbf•ft	newton meter (N•m)	1.355818
	lbf•in	newton meter (N•m)	1.129848×10^{-1}
	N•m	lbf•ft	7.375621×10^{-1}
	N•m	lbf•in	8.850748
Force	pounds-force (lbf)	newtons (N)	4.448222
Length	foot (ft)	meter (m)	3.048000×10^{-1}
	inch (in)	meter (m)	2.540000×10^{-2}
	mil	meter (m)	2.540000×10^{-5}
	inch (in)	micrometer (µm)	$2.540000 \times 10^{+4}$
	meter (m)	foot (ft)	3.280840
	meter (m)	inch (in)	$3.937008 \times 10^{+1}$
	meter (m)	mil	$3.937008 \times 10^{+4}$
	micrometer (µm)	inch (in)	3.937008×10^{-5}
Mass	ounces (avoirdupois)	kilogram (kg)	2.834952×10^{-2}
	pounds (avoirdupois)	kilogram (kg)	4.535924×10^{-1}
	ton (short, 2000 lb)	kilogram (kg)	$9.071847 \times 10^{+2}$
	ton (long, 2240 lb)	kilogram (kg)	$1.016047 \times 10^{+3}$
	kilogram (kg)	ounces (avoirdupois)	$3.527396 \times 10^{+1}$
	kilogram (kg)	pounds (avoirdupois)	2.204622
	kilogram (kg)	ton (short, 2000 lb)	1.102311×10^{-3}
	kilogram (kg)	ton (long, 2240 lb)	9.842064×10^{-4}
Mass Per Unit Length	lb/ft	kilogram per meter (kg/m)	1.488164
	lb/in	kilogram per meter (kg/m)	$1.785797 \times 10^{+1}$
	kg/m	lb/ft	6.719689×10^{-1}
	kg/m	lb/in	5.599741×10^{-2}
Mass Per Unit Volume	lb/ft^3	kilogram per cubic meter (kg/m^3)	1.601846×10^{-1}
	lb/in^3	kilogram per cubic meter (kg/m^3)	$2.767990 \times 10^{+4}$
	kg/m^3	lb/ft^3	6.242797×10^{-2}
	kg/m^3	lb/in^3	3.612730×10^{-5}
	lbs/ft^3	lbs/in^3	$1.728000 \times 10^{+3}$
Mass Per Area Unit	lb/ft^2	kilogram per square meter (kg/m^2)	4.882428
	kg/m^2	pound per square foot (lb/ft^2)	2.048161×10^{-1}
Pressure or Stress	lbf/in^2 (psi)	pascal (Pa)	$6.894757 \times 10^{+3}$
	kip/in^2 (ksi)	pascal (Pa)	$6.894757 \times 10^{+6}$
	lbf/in^2 (psi)	megapascals (MPa)	6.894757×10^{-3}
	pascal (Pa)	pounds force per sq. inch (psi)	1.450377×10^{-4}
	pascal (Pa)	kip per sq. inch (ksi)	1.450377×10^{-7}
	megapascals (MPa)	lbf/in^2 (psi)	$1.450377 \times 10^{+2}$
Section Properties	section modulus S (in^3)	S (m^3)	1.638706×10^{-5}
	section modulus S (M^3)	S (in^3)	$6.102374 \times 10^{+4}$
	moment of inertia I (in^4)	I (m^4)	4.162314×10^{-7}
	moment of inertia I (M^4)	I (in^4)	$2.402510 \times 10^{+6}$
	modulus of elasticity E (psi)	E (Pa)	$6.894757 \times 10^{+3}$
	modulus of elasticity E (Pa)	E (psi)	1.450377×10^{-4}
Temperature	degree Fahrenheit	degree Celsius	$t^{oC} = (t^{oF}-32)/1.8$
	degree Celsius	degree Fahrenheit	$t^{oF} = 1.8\ t^{oc}+32$
Volume	foot^3	cubic meter (m^3)	2.831685×10^{-2}
	inch^3	cubic meter (m^3)	1.638706×10^{-2}
	cubic centimeter (cm^3)	cubic inch (in^3)	6.102374×10^{-2}
	cubic meter (m^3)	foot^3	$3.531466 \times 10^{+1}$
	cubic meter (m^3)	inch^3	$6.102376 \times 10^{+4}$
	gallon (U.S. liquid)	cubic meter (m^3)	3.785412×10^{-3}

ASME ABBREVIATIONS

AISC	=	American Institute of Steel Construction
AISI	=	American Iron & Steel Institute
ANSI	=	American National Standards Institute
ASTM	=	American Society for Testing & Materials
AWWA	=	American Water Works Association
Dia.	=	Diameter
Ft.	=	Feet
Ga	=	Gauge
I.D.	=	Inside Diameter
In.	=	Inch
Lbs.	=	Pounds
Max.	=	Maximum
Min.	=	Minimum
MSS	=	Manufacturers' Standardization Society
NFPA	=	National Fire Protection Association
O.D.	=	Outside Diameter
Oz.	=	Ounces
psi	=	Pounds Per Square Inch
PVC	=	Poly Vinyl Chloride
UNC	=	Unified Course Threads
UNCR	=	Unified Course Threads (Rounded Root)

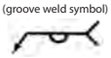
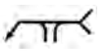
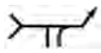
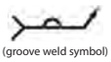
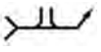
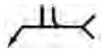
METRIC SYMBOLS

cm	=	centimeter
kg	=	kilogram
kN	=	kilonewton
m	=	meter
µm	=	micrometer
mm	=	millimeter
MPa	=	megapascal
N	=	newton
Nm	=	newton-meter
Pa	=	pascal

TECHNICAL INFORMATION

WELDING

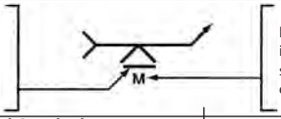
BASIC WELDING SYMBOLS AND THEIR LOCATION SIGNIFICANCE

Location Significance	Fillet	Plug or Slot	Spot or Projection	Seam	Back or backing	Surfacing	Flange	
							Edge	Corner
Arrow Side					(groove weld symbol) 			
Other Side					(groove weld symbol) 	not used		
Both Side		not used	not used	not used	not used	not used	not used	not used
No arrow side or other side significance	not used	not used			not used	not used	not used	not used

SUPPLEMENTARY SYMBOLS USED WITH WELDING SYMBOLS

Flush Contour Symbol

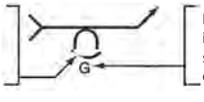
Flush contour symbol indicates face of weld to be made flush. When used without a finish symbol, indicates weld to be welded flush without subsequent finishing



Finish symbol (user's standard) indicates method of obtaining specified contour but not degree of finish.

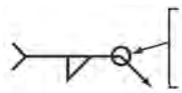
Convex Contour Symbol

Convex contour symbol indicates face of weld to be finished to convex contour.



Finish symbol (user's standard) indicates method of obtaining specified contour but not degree of finish.

Weld-All-Around Symbol



Weld-all-around symbol indicates that weld extends completely around the joint.

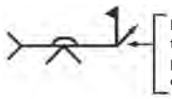
Melt-Thru Symbol



Melt-thru symbol is not dimensioned (except height)

Any applicable weld symbol

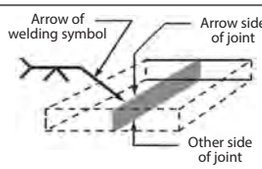
Field Weld Symbol



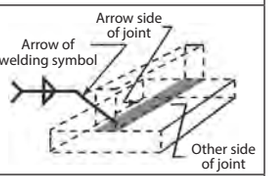
Field weld symbol indicates that weld is to be made at a place other than that of initial construction

BASIC JOINTS – Identification of arrow side and other side of joint

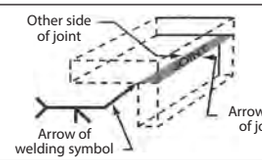
Butt Joint

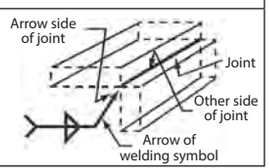


T-Joint

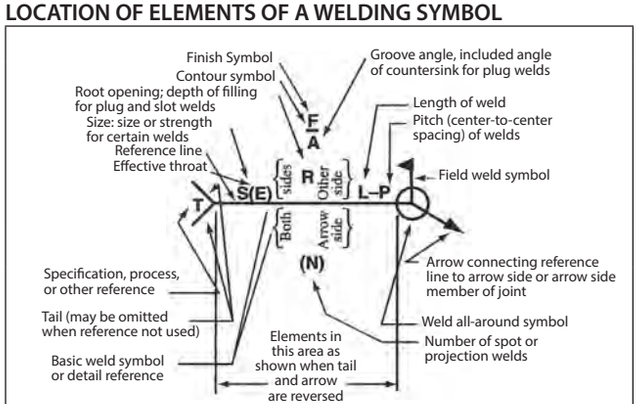


Corner Joint



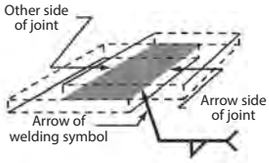


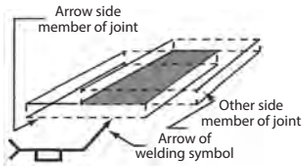
LOCATION OF ELEMENTS OF A WELDING SYMBOL



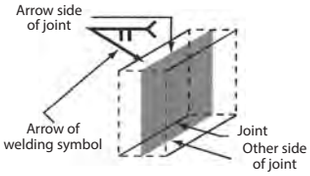
ARROW SIDE AND OTHER SIDE MEMBER JOINT

Lap Joint





Edge Joint



DESIGNATION OF WELDING AND ALLIED PROCESSES BY LETTERS

AAC.....air carbon air cutting	B.....brazing	CW.....cold welding	ESW.....electroslang welding	FOC.....chemical flux cutting
AAW.....air acetylene welding	BB.....block brazing	DB.....dip brazing	EXW.....explosion welding	FOW.....forge welding
AAB.....adhesive bonding	BMAW..... bare metal arc welding	DFB.....diffusion brazing	FB.....furnace brazing	FRW.....friction welding
AB.....arc brazing	CAC.....carbon arc cutting	DFW.....diffusion welding	FCAW.....flux cored arc welding	FS.....furnace soldering
AC.....arc cutting	CAW.....carbon arc welding	DS..... dip soldering	FCAW-EG..... flux cored arc welding-electrogas	FW.....flash welding
AHW....automatic hydrogen welding	CAW-G.....gas carbon welding	EASP.....electric arc spraying	FLB.....flow brazing	GMAC.....gas metal arc cutting
AOC..... oxygen arc cutting	CAW-S..... shielded carbon arc welding	EBC..... electron beam cutting	FLOW.....flow welding	GMAW.....gas metal arc welding
AW..... arc welding	CAW-T..... twin carbon arc welding	EBW..... electron beam welding	FLSP.....flame spraying	GMAW-EG.....gas metal arc welding-electrogas

Technical Data

Materials

CARBON STEEL

Channel is formed from high quality, structural grade carbon steel and has been manufactured in accordance with ASTM A570 specification Grade 33 (hot rolled) or ASTM-366 (cold rolled).

STAINLESS STEEL

Channel is formed from chromium-nickel stainless steel manufactured in accordance with ASTM A420 specification offered in both AISI Type 304 and 316 material. Stainless steel is resistant to corrosion and is ideal for use in extreme ambient temperatures.

Finishes

PRE-GALVANIZED

A hot dip mill galvanized coating is produced by continuously passing the steel through a bath of molten zinc in accordance with ASTM A653. This coating is applied to steel master coils prior to slitting and fabrication. Pre-galvanized steel is not recommended for outdoor, unprotected use. It is suitable for extended exposure in dry mildly corrosive environments.

HOT DIP GALVANIZED - AFTER FABRICATION

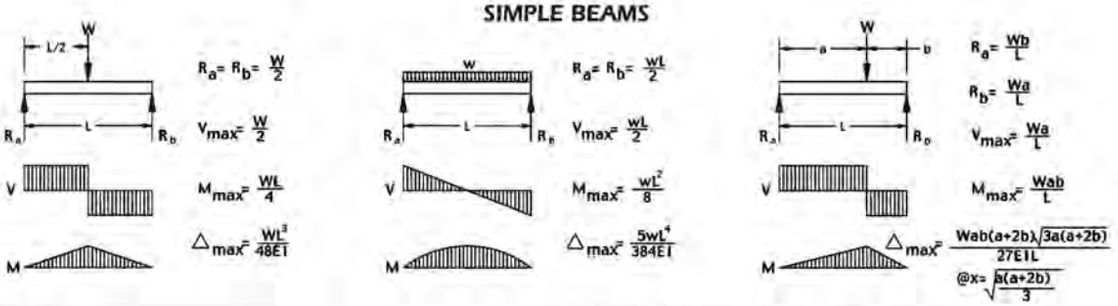
The finished channel is completely immersed in a bath of molten zinc, resulting in the complete coating of all surfaces of the product, including edges and welds. Channel that is hot dip galvanized has a total coating weight of 3.0 ounces of zinc per square foot (1.5 ounces per side) in accordance with ASTM A123 specification. This coating provides superior results for prolonged outdoor exposure applications.

GREEN POWDER COATING

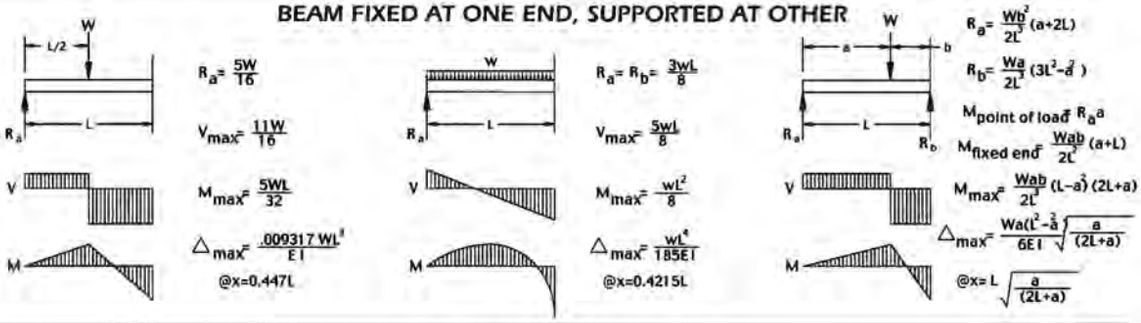
Channel is coated after fabrication with a polyester powder finish. This coating provides a high quality appearance as well as surface durability. Once the channel is pre-treated and cleaned through a bonderite process, the coating is applied using an electro-static spray process. The channel then proceeds through a baking process which results in a chemical bond between the channel and the polyester powder finish.

Common Beam Loading Formulas

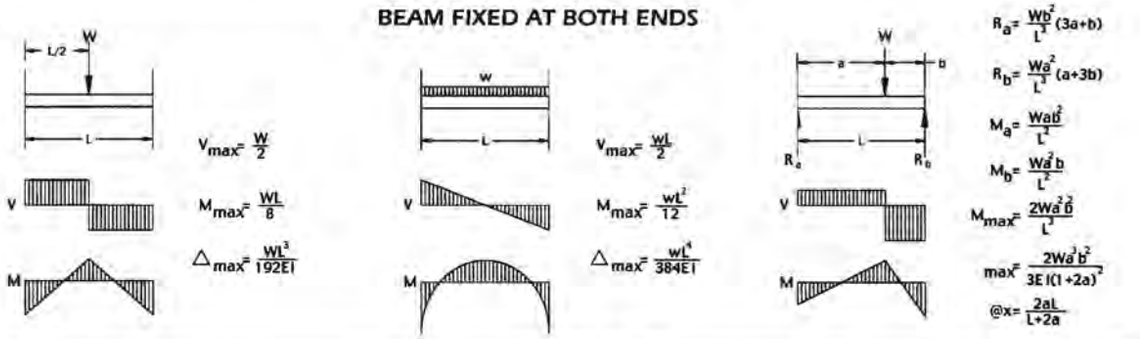
SIMPLE BEAMS



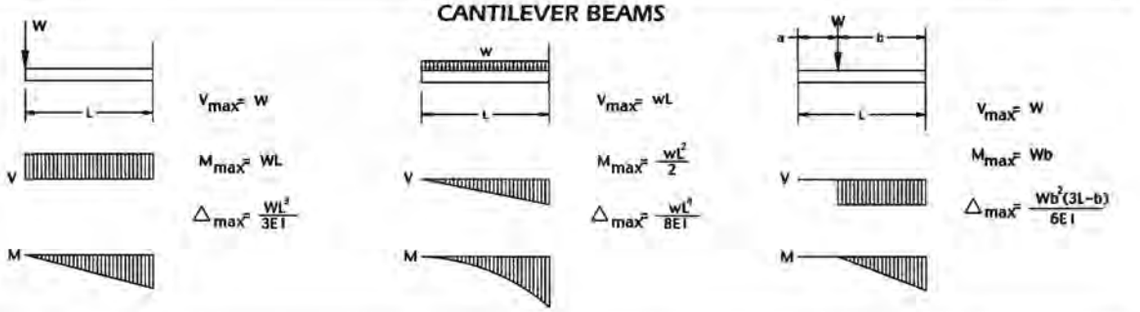
BEAM FIXED AT ONE END, SUPPORTED AT OTHER



BEAM FIXED AT BOTH ENDS



CANTILEVER BEAMS



R- Reaction
M-Moment
W-Concentrated Load

w-Uniform Load (Weight/Unit Length)
V-Shear
L-Length

Δ-Deflection
E-Modulus of Elasticity
I-Moment of Inertia

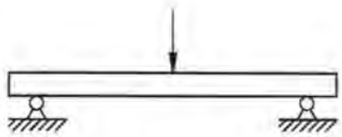
Fundamentals of Design

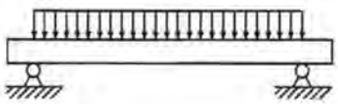
BEAMS

Beams are members which are subjected to loads at right angles (perpendicular) to their length. Most commonly, beams are horizontal and are therefore subjected to vertical loads usually related to gravity, i.e.-a shelf, platform or support for pipe or conduit. Loads cause beams to bend, called deflection. The ultimate consideration when designing a beam structure is whether or not it is strong enough. In other words, will it hold the anticipated load and provide a safety factor for unanticipated loads or other variations in conditions. A beam's ability to support a load is determined by its allowable bending moment and resulting amount of deflection. This load carrying ability is dependent on a number of factors: the amount of load, the type of load, the manner in which the beam is supported and the stiffness of the beam (a function of the beam's shape and the material from which it is made).

Types of Beam Loading

Point Load – A point load is concentrated at a single point along the beam's span (in reality, the load is concentrated over a very small length of the beam).

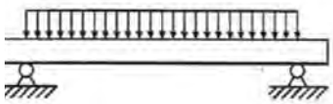


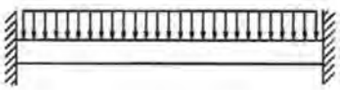


Uniform Load – A uniform load is spread evenly over the length of the beam from support to support.

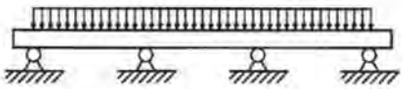
Types of Beam Support Conditions

Simple Beam – A simple beam is supported at both ends by non-fixed connections which prevent vertical movement at the support point, but allow the beam to rotate or flex into a normal deflected shape. The majority of bolted metal framing connections closely approximate these conditions. The loading data presented in this catalog is based on simple beam analysis unless otherwise noted.

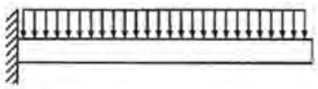




Fixed Beam – A fixed beam has rigid connections at each end that restrict the rotation of the beam and resist its deflection. The increased stiffness provided by this resistance to rotation provides a greater load capacity than that of an equivalent simple beam. A fixed-end beam would result when a channel span is welded to rigid upright supports.

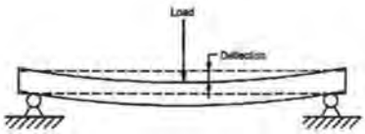


Continuous Beam – A continuous beam rests on more than two supports. The outside spans of a continuous beam will act like simple beams, while the interior spans will behave in a manner similar to fixed beams.



Cantilever Beams – A cantilever beam is supported by a fixed, rigid connection at one end and is totally unsupported at the opposite end. Shelf brackets and many of the strut brackets shown in this catalog are examples of cantilever beams.

Loading and Deflection



All beams will deflect or "sag" when a load is applied. The magnitude of the deflection is dependent on the following factors:

(a) The amount of load plus the weight of the beam itself.
(b) The manner in which the load is distributed.
(c) The method by which the beam is supported.
(d) The cross sectional shape of the beam.
(e) The material from which the beam is made.

The stiffness of the beam derived from its cross sectional shape is defined by its "Moment of Inertia" or "I". The greater the "I" value of a beam, the greater its stiffness and the smaller its deflection. "I" values are given for both major axis (X-X and Y-Y). Increasing the height of the strut channel (Y-Y axis) is a straightforward way to increase its stiffness and lower its deflection.

The stiffness of a beam derived from its material composition is defined by its "Modulus of Elasticity" or "E". The greater the "E" value of the beam's material, the stiffer it is, and the smaller the deflection. A material's elasticity does not necessarily relate to its strength but rather its deflection under a given load.

The beam capacities in this catalog include the weight of the beam itself. Therefore, the strut beam weight must be subtracted from the loading capacities given to provide the net beam capacity.

Catalog Cross Reference Listing
COOPER B-LINE

CHANNEL DENOTED BY RED SHADING

COOPER B-LINE	Atlas	COOPER B-LINE	Atlas	COOPER B-LINE	Atlas
B11	7250	B140	9011FF	B333-1	9054UF
B11A	7251	B141	9006FF	B334	9021FF
B12	7230	B142	9015FF	B337	9013FF
B12A	7240	B143	9014FF	B340	9004FF
B12SH	7231	B155	9047AF	B341	9007FF
B12SHA	7241	B162	9044AF	B342	9008FF
B22	7000	B172	9052UF	B355	9081BC
B22A	7000A	B187 (9")	9103BB	B368	9048AF
B22SH	7001	B188 (12")	9105BB	B371	9025CA
B22SHA	7001A	B189 (15")	9106BB	B371-2	9029CA
B24	7100	B201	9001FF SERIES	B441-22	9086BC
B24SH	7101	B201D	9002FF SERIES	B441-22A	9087BC
B32I	7225	B202	9001FF SERIES	B515	9065ZF
B54	7200	B202-1	9001FF SERIES	B526	9058ZF
B54SH	7201	B202D	9002FF SERIES	B528	9005FF
B101	9023CA	B202-1D	9002FF SERIES	B532	9019FF
B102	9026CA	B202-2	9001FF SERIES	B533	9039CA
B103	9027CA	B202-2D	9002FF SERIES	B541	9104BB
B104	9030CA	B211	9084BC	B556	9020FF
B105	9062ZF	B212-1/4	9082BC	B844 (4" X 4")	9034CA
B106-12	9063ZF	B212-3/8	9083BC	B1999	8550
B106-52	9059ZF	B230	9022CA	B2007PA	8200 SERIES
B106-32	9061ZF	B231 (2-1/4" X 2-1/4")	9024CA	B2008PA	8200 SERIES
B106-42	9060ZF	B232	9028CA	B2008SS4PA	8200SS SERIES
B107	9053UF	B248	9046AF	B2009PA	8200 SERIES
B107-22A	9057UF	B261-12	9040CA	B2009SS4PA	8200SS SERIES
B110	9064ZF	B261-18	9042CA	B2010PA	8200 SERIES
B115 (3-3/4" X 3-15/16")	9031CA	B261-24	9043CA	B2010SS4PA	8200SS SERIES
B116-12	9056UF	B266	9055UF	B2011PA	8200 SERIES
B116-32	9051UF	B267L	9068WF	B2011SS4PA	8200SS SERIES
B116-42	9050UF	B267R	9067WF	B2012PA	8200 SERIES
B116-52	9049UF	B268L	9071WF	B2012SS4PA	8200SS SERIES
B118	9036CA	B268R	9070WF	B2013PA	8200 SERIES
B119	9066WF	B269L	9074WF	B2013PA (ZN)	8250 SERIES
B120	9069WF	B271	9076WF	B2013SS4PA	8200SS SERIES
B121	9072WF	B272	9078WF	B2014PA	8200 SERIES
B122	9075WF	B273	9080WF	B2014PA (ZN)	8250 SERIES
B123	9079WF	B278	9088PB	B2014SS4PA	8200SS SERIES
B124	9077WF	B279SQ	9092PB	B2015PA	8200 SERIES
B125	9035CA	B280	9093PB	B2015PA (ZN)	8250 SERIES
B126	9037CA	B280FL (3-1/8" X 8")	9090PB	B2015SS4PA	8200SS SERIES
B127	9038CA	B280SQ	9094PB	B2016PA	8200 SERIES
B129	9003FF	B281	9095PB	B2016PA (ZN)	8250 SERIES
B132	9017FF	B281FL (3-1/8" X 8")	9091PB	B2016SS4PA	8200SS SERIES
B133	9016FF	B290	9107BB	B2017PA	8200 SERIES
B135	9012FF	B291	9108BB	B2017PA (ZN)	8250 SERIES
B136	9018FF	B292	9109BB	B2017SS4PA	8200SS SERIES
B138 (1-5/8" X 4-5/8")	9009FF	B314	9085BC	B2018PA (ZN)	8250 SERIES
B139 (1-5/8" X 6-1/2")	9010FF	B269R	9073WF		

CONTINUED

Catalog Cross Reference Listing
COOPER B-LINE - continued

COOPER B-LINE	Atlas	COOPER B-LINE	Atlas	COOPER B-LINE	Atlas
B2019PA	8200 SERIES	B2062PA (ZN)	8250 SERIES	N223WO	8000 SERIES
B2019SS4PA	8200SS SERIES	B2063PA (ZN)	8250 SERIES	N224	8100 SERIES
B2020PA	8200 SERIES	B2064PA (ZN)	8250 SERIES	N224SS6	8100SX SERIES
B2020PA (ZN)	8250 SERIES	B2065PA (ZN)	8250 SERIES	N224WO	8000 SERIES
B2020SS4PA	8200SS SERIES	B2066PA (ZN)	8250 SERIES	N225	8100 SERIES
B2022PA	8200 SERIES	B2067PA (ZN)	8250 SERIES	N225SS6	8100SX SERIES
B2023PA (ZN)	8250 SERIES	B2068PA (ZN)	8250 SERIES	N225WO	8000 SERIES
B2024PA (ZN)	8250 SERIES	B2069PA (ZN)	8250 SERIES	N226	8100 SERIES
B2025PA (DCU)	8300CT/8300CTP SERIES	B2110PA (DCU)	8300CT/8300CTP SERIES	N226WO	8000 SERIES
B2025PA (ZN)	8250 SERIES	B2110PA (ZN)	8250 SERIES	N227	8100 SERIES
B2026PA (DCU)	8300CT/8300CTP SERIES	B2111PA (ZN)	8250 SERIES	N227WO	8000 SERIES
B2026PA (ZN)	8250 SERIES	B2112PA (ZN)	8250 SERIES	N228	8100 SERIES
B2027PA (ZN)	8250 SERIES	B2113PA (ZN)	8250 SERIES	N228SS6	8100SX SERIES
B2028PA (DCU)	8300CT/8300CTP SERIES	B2115PA (ZN)	8250 SERIES	N228WO	8000 SERIES
B2028PA (ZN)	8250 SERIES	B2116PA (ZN)	8250 SERIES	N255	8100 SERIES
B2029PA (ZN)	8250 SERIES	B2117PA (ZN)	8250 SERIES	N255SS6	8100SX SERIES
B2030PA (DCU)	8300CT/8300CTP SERIES	B2128PA (ZN)	8250 SERIES	N255WO	8000 SERIES
B2030PA (ZN)	8250 SERIES	B2130PA	8200 SERIES	N275	8100 SERIES
B2031PA (ZN)	8250 SERIES	B2132PA	8200 SERIES	N275WO	8000 SERIES
B2032PA (DCU)	8300CT/8300CTP SERIES	B2207PA	8350 SERIES	N278	8100 SERIES
B2032PA (ZN)	8250 SERIES	B2208PA	8350 SERIES	N278WO	8000 SERIES
B2033PA (ZN)	8250 SERIES	B2209PA	8350 SERIES	N521	8050 SERIES
B2034PA (DCU)	8300CT/8300CTP SERIES	B2210PA	8350 SERIES	N522	8050 SERIES
B2034PA (ZN)	8250 SERIES	B2211PA	8350 SERIES	N523	8050 SERIES
B2035PA (ZN)	8250 SERIES	B2212PA	8350 SERIES	N524	8050 SERIES
B2036PA (ZN)	8250 SERIES	B2213PA	8350 SERIES	N525	8050 SERIES
B2037PA (ZN)	8250 SERIES	B2400 SERIES	9110HD SERIES	N526	8050 SERIES
B2038PA (DCU)	8300CT/8300CTP SERIES	BVT025	8500 SERIES	N527	8050 SERIES
B2038PA (ZN)	8250 SERIES	BVT037	8500 SERIES	N528	8050 SERIES
B2039PA (ZN)	8250 SERIES	BVT050	8500 SERIES	N555	8050 SERIES
B2041PA (ZN)	8250 SERIES	BVT062	8500 SERIES	TN221	8150 SERIES *
B2042PA (DCU)	8300CT/8300CTP SERIES	BVT075	8500 SERIES	TN222	8150 SERIES *
B2042PA (ZN)	8250 SERIES	BVT087	8500 SERIES	TN223	8150 SERIES *
B2043PA (ZN)	8250 SERIES	BVT100	8500 SERIES	TN224	8150 SERIES *
B2045PA (ZN)	8250 SERIES	BVT112	8500 SERIES	TN225	8150 SERIES *
B2046PA (DCU)	8300CT/8300CTP SERIES	BVT125	8500 SERIES	TN227	8150 SERIES *
B2046PA (ZN)	8250 SERIES	BVT137	8500 SERIES	TN228	8150 SERIES *
B2047PA (ZN)	8250 SERIES	BVT150	8500 SERIES	TN525	8150 SERIES *
B2048PA (ZN)	8250 SERIES	BVT162	8500 SERIES		
B2050PA (DCU)	8300CT/8300CTP SERIES	BVT175	8500 SERIES		
B2050PA (ZN)	8250 SERIES	BVT187	8500 SERIES		
B2051PA (ZN)	8250 SERIES	BVT200	8500 SERIES		
B2052PA (ZN)	8250 SERIES	BVT212	8500 SERIES		
B2054PA (DCU)	8300CT/8300CTP SERIES	BVT262	8500 SERIES		
B2054PA (ZN)	8250 SERIES	BVT312	8500 SERIES		
B2055PA (ZN)	8250 SERIES	BVT412	8500 SERIES		
B2056PA (ZN)	8250 SERIES	N221	8100 SERIES		
B2058PA (ZN)	8250 SERIES	N221WO	8000 SERIES		
B2059PA (ZN)	8250 SERIES	N222	8100 SERIES		
B2060PA (ZN)	8250 SERIES	N222WO	8000 SERIES	*SIMILAR BUT NOT IDENTICAL	
B2062PA (DCU)	8300CT/8300CTP SERIES	N223	8100 SERIES		

Catalog Cross Reference Listing
ERICO

CHANNEL DENOTED BY RED SHADING

ERICO	Atlas	ERICO	Atlas	ERICO	Atlas
A12	7000	L15	9025CA	W19	9075WF
A12A	7000A	L18 (EG)	9026CA	W20	9077WF
A12AHS	7001A	L19 (1-7/8" X 3-7/8")	9028CA	W21	9079WF
A12HS	7001	L20 (EG)	9027CA	Z17	9063ZF
A14	7100	L21	9029CA	Z14	9058ZF
A14HS	7101	L23 (EG)	9034CA	Z25	9065ZF
B1200NCT	7225	L32	9037CA	Z10C0000EG	9059ZF
C14	7200	L33	9038CA	Z10D0000EG	9063ZF
C14HS	7201	L34	9036CA	Z10M0000EG	9060ZF
D12	7230	L40	9039CA		
D12A	7240	L43	9035CA		
D12AHS	7241	L46 30 DEGREE	9044AF		
D12HS	7231	L46 45 DEGREE	9045AF		
E12	7250	L47 45 DEGREE	9047AF		
E12HS	7251	L100000EG	9023CA		
BC16A000EG	9085BC	L220000EG	9030CA		
BC17A000EG	9086BC	L441200EG	9040CA		
BC17D000EG	9087BC	L441800EG	9042CA		
BC21	9084BC	NUT SERIES	8000		
BC1800037EG	9083BC	OD SERIES	8250		
BC200000EG	9081BC	P09 (BASE = 3-1/2" X 6")	9089PB		
COPC	8300CT/8300CTP SERIES	P09F	9090PB		
F090000EG	9003FF	P10SQ	9092PB		
F11-F12 SERIES	9002FF SERIES	P11 SQ	9094PB		
F13-F18 (EG)	9001FF SERIES	P15	9088PB		
F20	9006FF	P110000EG	9093PB		
F21	9008FF	RIGD-EG	8200		
F22	9004FF	SPRA SERIES	8100		
F23	9007FF	SPRC SERIES	8050		
F25	9016FF	STR 2 SERIES	9110HD		
F26	9009FF	TCC SERIES	8500		
F27	9010FF	TSNT SERIES	8150		
F28	9017FF	U11C	9049UF		
F30	9013FF	U12D	9056UF		
F31	9018FF	U13 (7-1/4")	9054UF		
F32	9019FF	U24A	9052UF		
F33	9015FF	UNIV SERIES	8350 SERIES		
F34	9020FF	VS20	8550		
F35	9012FF	W12	9066WF		
F36	9011FF	W13	9069WF		
F37	9014FF	W14	9072WF		
F38	9021FF	W16	9076WF		
L08	9024CA	W17	9078WF		
L11 (1-7/8" X 2")	9022CA	W18	9080WF		

Catalog Cross Reference Listing
PHD

CHANNEL DENOTED BY RED SHADING

PHD	Atlas	PHD	Atlas	PHD	Atlas
1001	7000 (10')	5023	9010FF	5610	9070WF
1002	7000 (20')	5025	9011FF	5611	9071WF
1011	7001 (10')	5030	9014FF	5615	9073WF
1022	7001 (20')	5035	9016FF	5616	9074WF
1101	7100 (10')	5040	9017FF	5620	9066WF
1102	7100 (20')	5045	9012FF	5625	9069WF
1111	7101 (10')	5050	9015FF	5630	9072WF
1112	7101 (20')	5060	9020FF	5635	9076WF
1301	7200 (10')	5065	9013FF	5640	9078WF
1302	7200 (20')	5075	9018FF	5645	9080WF
1311	7201 (10')	5080	9019FF	5650	9075WF
1312	7201 (20')	5095	9021FF	5655	9079WF
1501	7250 (10')	5110 (1-5/8" X 2-1/4")	9023CA	5660	9077WF
1502	7250 (20')	5112	9022CA	5730	9052UF
1511	7251 (10')	5119	9024CA	6010	9092PB
1512	7251 (20')	5120 (2-5/16" X 3-1/2")	9026CA	6020	9093PB
1601	7230 (10')	5121 (1-5/8" X 4-3/16")	9027CA	6025	9094PB
1602	7230 (20')	5122	9028CA	6030 (3-1/8" X 8")	9090PB
1611	7231 (10')	5130 (3-1/2" X 4-3/16")	9030CA	6050	9095PB
1612	7231 (20')	5131 (3-13/16" X 3-7/8")	9031CA	6065 (BASE = 3-1/8" X 8")	9091PB
4000	7225	5165	9034CA	6095	9088PB
1001A	7000A (10')	5180	9035CA	6101	9103BB
1002A	7000A (20')	5185 (1-5/8" X 4-3/16")	9036CA	6102	9104BB
1011A	7001A (10')	5190	9039CA	6121	9105BB
1012A	7001A (20')	5200	9037CA	6122	9106BB
1601A	7240 (10')	5205	9038CA	6123	9107BB
1601A SH	7241 (10')	5221	9025CA	6124	9108BB
1602A	7240 (20')	5230	9029CA	6125	9109BB
1602A SH	7241 (20')	5304	9044AF	7011	9082BC
2001-2016	8200 SERIES	5315	9045AF	7012	9083BC
2001SS-2016SS	8200SS SERIES	5345	9046AF	7030	9084BC
2101-2107	8350 SERIES	5361	9047AF	7040	9081BC
2302-2314	8300CTP/83000CT SERIES	5371	9048AF	7060	9085BC
2401-2461	8250 SERIES	5410	9040CA	7070	9086BC
2501-2514	8500 SERIES	5412	9042CA	7075	9087BC
2600	8550	5501	9049UF	7251-7262	9110HD SERIES
3001-3011	8000 SERIES	5503	9053UF		
3101-3111	8100 SERIES	5505	9056UF		
3101SS-3111SS	8100SX SERIES	5507	9057UF		
3201-3209	8050 SERIES	5530	9054UF		
5000-5004	9001FF SERIES	5521	9055UF		
5005-5008	9002FF SERIES	5551	9059ZF		
5011	9005FF	5553	9063ZF		
5012	9004FF	5554	9062ZF		
5013	9006FF	5556	9058ZF		
5015	9007FF	5590	9065ZF		
5019	9008FF	5600	9067WF		
5020	9009FF	5601	9068WF		

Catalog Cross Reference Listing
POWERSTRUT

CHANNEL DENOTED BY RED SHADING

POWERSTRUT	Atlas	POWERSTRUT	Atlas	POWERSTRUT	Atlas
PS100	7250	PS 670	9077WF	PS 1100 SERIES	8200
PS100 EH	7251	PS 679	9057UF	PS 1100 SS SERIES	8200SS
PS150	7230	PS 685	9084BC	PS 1200 CPLT SERIES	8300CT/8300CTP SERIES
PS150 2T3	7240	PS 686	9081BC	PS 1200 EG SERIES	8250
PS150 2T3 EH	7241	PS 687-A (3 HOLES-2 SLOTS)	9054UF	PS 1300 SERIES	8350
PS150 EH	7231	PS 692	9065ZF	PS 1400 SERIES	8500
PS200	7000	PS 710	9051UF	PS 2112	9021FF
PS200 2T3	7000A	PS 711	9061ZF	PS 2128-L	9074WF
PS200 EH	7001	PS 712	9017FF	PS 2128-R	9073WF
PS200 EH 2T3	7001A	PS 714	9016FF	PS 2131-L	9071WF
PS210	7100	PS 718	9011FF	PS 2131-R	9070WF
PS210 EH	7101	PS 721	9055UF	PS 2190	9020FF
PS349 10' W/O	7225 (10')	PS 732-10	9104BB	PS 2504	9002FF
PS349 20' W/O	7225 (20')	PS 732-12	9105BB	PS 2545	9025CA
PS500	7200	PS 732-14	9106BB	PS 2601	9063ZF
PS500 EH	7201	PS 732-8	9103BB	PS 2648	9056UF
PS 601	9003FF	PS 744	9012FF	PS 2651-A	9086BC
PS 602	9006FF	PS 745	9028CA	PS 3033	9093PB
PS 603	9022CA	PS 746	9035CA	PS 3040	9088PB
PS 604	9023CA	PS 747	9018FF	PS 3049	9029CA
PS 605 (2-5/16" X 3-1/2")	9026CA	PS 748 (1-5/8" X 4-3/16")	9036CA	PS 3064	9095PB
PS 606 (1-5/8" X 4-3/16")	9027CA	PS 750	9015FF	PS 3126 SERIES	9110HD
PS 607 (3-1/2" X 4-3/16")	9030CA	PS 756 (1-5/8" X 3-1/2")	9064ZF	PS 3373 (4" X 4")	9034CA
PS 608-L	9033CA	PS 781-45 DEGREE	9046AF	PS 3792	8550
PS 608-R	9032CA	PS 793-45 DEGREE	9048AF	PS NS SERIES	8000
PS 611	9062ZF	PS 806	9024CA	PS NSS SERIES	8000
PS 612	9060ZF	PS 821	9078WF	PSRS SERIES	8100
PS 613	9053UF	PS 854	9019FF	PSSS SERIES	8050
PS 614	9037CA	PS 855-1	9085BC	PS TG SERIES	8150
PS 615	9038CA	PS 888	9007FF		
PS 616	9052UF	PS 907	9082BC		
PS 617	9010FF	PS 913	9080WF		
PS 618	9009FF	PS 922-L	9068WF		
PS 619 SERIES	9001FF	PS 922-R	9067WF		
PS 620	9004FF	PS 923	9076WF		
PS 624-45 DEGREE	9047AF	PS 925	9013FF		
PS 633-30 DEGREE	9044AF	PS 926-12	9040CA		
PS 633-45 DEGREE	9045AF	PS 926-18	9042CA		
PS 660 (3-13/16" X 3-7/8")	9031CA	PS 926-24	9043CA		
PS 665	9066WF	PS 927	9039CA		
PS 666	9069WF	PS 928	9059ZF		
PS 667	9072WF	PS 929	9049UF		
PS 668	9075WF	PS 978	9050UF		
PS 669	9079WF	PS 998	9083BC		

Catalog Cross Reference Listing
SUPERSTRUT

CHANNEL DENOTED BY RED SHADING

SUPERSTRUT	Atlas	SUPERSTRUT	Atlas	SUPERSTRUT	Atlas
A-1200	7000	AB-255	9012FF	X-207	9007FF
A-1200HS	7001	AB-257	9015FF	X-208	9008FF
A-1202	7000A	AB-261	9019FF	X-299	9025CA
A-1202HS	7001A	AB-263	9020FF	512	9081BC
A-1400	7100	AB-265	9018FF	701 SERIES	8250 SERIES
A-1400HS	7101	AB-274 (1-5/8" X 2-1/4")	9035CA	702 SERIES	8200 SERIES
B-1400	7200	AB-299	9024CA	702SS	8200SS SERIES
B-1400HS	7201	AP-232	9093PB	703 SERIES	8350 SERIES
C-302	7225	AP-232-SQ	9094PB		
E-1200	7230	AP-235	9095PB		
E-1200HS	7231	AW-204	9066WF		
E-1202	7240	AW-205-L	9068WF		
E-1202HS	7241	AW-205-R	9067WF		
H-1200	7250	AW-214	9069WF		
H-1200HS	7251	AW-219	9080WF		
A-100	8100	AW-220	9076WF		
A-208	9052UF	AW-224	9078WF		
A-209	9062ZF	AW-226	9075WF		
A-210	9053UF	AW-228	9079WF		
A-211	9057UF	B-100 SERIES	8050		
A-212	9055UF	B-209	9059ZF		
A-217	9072WF	B-210	9049UF		
A-218	9077WF	C-209	9061ZF		
A-597	9085BC	C-210	9051UF		
A-716 SERIES	8500	C-708-U SERIES	9110HD		
AB-100 SERIES	8000	CM-100	8150 *		
AB-201 (1-5/"8 X 2-1/4")	9023CA	CT-701	8300CTP/83000CT SERIES		
AB-202 (1-7/8" X 2")	9022CA	CZ-209	9064ZF		
AB-203	9027CA	E-210	9056UF		
AB-204	9026CA	EZ-209	9063ZF		
AB-206	9003FF	N-205	9031CA		
AB-207	9006FF	S-204	9103BB		
AB-213	9032CA	S-205	9104BB		
AB-214	9033CA	S-217	9105BB		
AB-216 (3-1/2" X 4-1/8")	9038CA	S-218	9106BB		
AB-219	9011FF	S-222	9107BB		
AB-220	9016FF	S-226	9108BB		
AB-225	9047AF	S-236	9109BB		
AB-227	9045AF	S-716	8550		
AB-239-2 (17")	9042CA	U-501	9086BC		
AB239-3 (25-1/2")	9043CA	U-502	9087BC		
AB-240 (7")	9010FF	U-510	9084BC		
AB-241 SERIES	9001FF SERIES	U-514	9082BC	* SPECS DIFFER BUT PART IS FUNCTIONALLY EQUIVALENT	
AB-253	9017FF	U-514-A	9083BC		

Catalog Cross Reference Listing
TOLCO

CHANNEL DENOTED BY RED SHADING

TOLCO	Atlas	TOLCO	Atlas	TOLCO	Atlas
A12	7000	F36	9011FF	U24	9052UF
A12A	7000A	F37	9014FF	UNIV SERIES	8350
A12AHS	7001A	F38	9021FF	W10 (R)	9067WF
A12HS	7001	L08	9024CA	W10(L)	9068WF
A14	7100	L10 (1-5/8" X 2-1/4")	9023CA	W11 (L)	9074WF
A14HS	7101	L11	9022CA	W11 (R)	9073WF
B12 INSERT	7225	L15	9025CA	W12	9066WF
C14	7200	L18	9026CA	W13	9069WF
C14HS	7201	L19 (1-7/8" X 3-7/8")	9028CA	W14	9072WF
D12	7230	L20	9027CA	W16	9076WF
D12A	7240	L21	9029CA	W17	9078WF
D12AHS	7241	L22	9030CA	W18	9080WF
D12HS	7231	L23L	9033CA	W19	9075WF
E12	7250	L23R	9032CA	W20	9077WF
E12HS	7251	L23U (ONLY 6 HOLES)	9034CA	W21	9079WF
BC16 (A)	9085BC	L32	9037CA	2 STR SERIES	9110HD
BC17 (A)	9086BC	L33 (3-1/2" X 4-1/8")	9038CA	Z25	9065ZF
BC17 (E)	9087BC	L34	9036CA	Z10 (B)	9061ZF
BC18 (3/8")	9082BC	L40	9039CA	Z10 (C)	9059ZF
BC18 (1/2")	9083BC	L43 (1-5/8" X 2-1/4")	9035CA	Z10 (D)	9063ZF
BC20	9081BC	L44 (12")	9040CA		
BC21	9084BC	L44 (18")	9042CA		
BR11 (8-1/2")	9103BB	L45-30 DEGREE	9044AF		
BR11 (10-1/2")	9104BB	L45-45 DEGREE	9045AF		
BR11 (12-1/2")	9105BB	L46-45 DEGREE	9046AF		
BR11 (14-1/2")	9106BB	L47-45 DEGREE	9047AF		
BR12	9107BB	L48-45 DEGREE	9048AF		
CUSH CLAMP SERIES	8500	NUT SERIES	8000		
F09	9003FF	OD SERIES	8250		
F11-F12	9002FF	P10SQ	9092PB		
F14-F18	9001FF	P11	9093PB		
F20	9006FF	P11F	9090PB		
F22	9004FF	P11SQ	9094PB		
F23	9007FF	P13F (3-1/8" X 8" BASE)	9091PB		
F25	9016FF	P13	9095PB		
F26	9009FF	P15	9088PB		
F27	9010FF	RIGD SERIES	8200		
F28	9017FF	SPRA SERIES	8100		
F30	9013FF	SPRC SERIES	8050		
F31	9018FF	TSN SERIES	8150		
F32	9019FF	U11	9049UF		
F33	9015FF	U12	9056UF		
F34	9020FF	U13 (7-1/4")	9054UF		
F35	9012FF	U16	9057UF		

Catalog Cross Reference Listing
UNISTRUT

CHANNEL DENOTED BY RED SHADING

UNISTRUT	Atlas	UNISTRUT	Atlas	UNISTRUT	Atlas
P1000	7000	P1068 (1-5/8" X 2-1/4")	9023CA	P2027CC	8300CTP/8300CT SERIES
P1000T	7001	P1109- P1126	8200	P2029CC	8300CTP/8300CT SERIES
P1001	7000A	P1109SS-P1126ASS	8200SS	P2031CC	8300CTP/8300CT SERIES
P1001T	7001A	P1117CC	8300CTP/8300CT SERIES	P2033CC	8300CTP/8300CT SERIES
P1100	7100	P1117E-P1120E	8250 SERIES	P2035CC	8300CTP/8300CT SERIES
P1100T	7101	P1118CC	8300CTP/8300CT SERIES	P2039CC	8300CTP/8300CT SERIES
P3265 (10 FT)	7225	P1186	9047AF	P2043CC	8300CTP/8300CT SERIES
P3270 (20 FT)	7225	P1211	8350 SERIES	P2047CC	8300CTP/8300CT SERIES
P4100	7200	P1212	8350 SERIES	P2051CC	8300CTP/8300CT SERIES
P4100T	7201	P1213	8350 SERIES	P2055CC	8300CTP/8300CT SERIES
P5000	7250	P1214	8350 SERIES	P2063CC	8300CTP/8300CT SERIES
P5000T	7251	P1215	8350 SERIES	P2070-61CC	8300CTP/8300CT SERIES
P5500	7230	P1217	8350 SERIES	P2070-83	8250 SERIES
P5500T	7231	P1272S	9082BC	P2072A	9093PB
P5501	7240	P1325	9030CA	P2073A	9095PB
P5501T	7241	P1326	9027CA	P2101	9044AF
004T008	8500 SERIES	P1334	9012FF	P2223	9066WF
006T010	8500 SERIES	P1346	9028CA	P2224	9069WF
008T012	8500 SERIES	P1356	9013FF	P2225	9072WF
010T014	8500 SERIES	P1357 (1-5/8" X 2-1/4")	9035CA	P2227	9075WF
012T016	8500 SERIES	P1358	9018FF	P2228	9077WF
014T018	8500 SERIES	P1359	9036CA	P2229	9079WF
016T020	8500 SERIES	P1377	9052UF	P2235 (3-1/2" X 4-1/8")	9038CA
018T022	8500 SERIES	P1379S	9084BC	P2324	9010FF
020T024	8500 SERIES	P1380	9015FF	P2325	9009FF
022T026	8500 SERIES	P1380 A	9014FF	P2341 L	9068WF
024N028	8500 SERIES	P1386	9081BC	P2341 R	9067WF
026N030	8500 SERIES	P1430E	8250 SERIES	P2343-L	9074WF
028N032	8500 SERIES	P1453	9064ZF	P2343-R	9073WF
030N034	8500 SERIES	P1454	9058ZF	P2345	9076WF
032N036	8500 SERIES	P1458	9026CA	P2346	9078WF
034N040	8500 SERIES	P1546	9045AF	P2347	9080WF
038N044	8500 SERIES	P1579	9037CA	P2471 (3/4")	9001FF SERIES
042N048	8500 SERIES	P1726	9019FF	P2484 (4" X 4")	9032CA
050N056	8500 SERIES	P1728	9039CA	P2484W (4" X 4")	9033CA
066N074	8500 SERIES	P1737	9057UF	P2490 (7/8")	9001FF SERIES
P1006-P1024	8100	P1747	9029CA	P2558 SERIES	9110HD
P1012	8000 SERIES	P1750	9025CA	P2600	8550
P1023	8000 SERIES	P1769	9103BB	P2626 (2-1/8" X 2-1/8")	9024CA
P1024	8000 SERIES	P1771	9104BB	P2785	9086BC
P1026 (1-7/8" X 2")	9022CA	P1773	9105BB	P2786	9087BC
P1028	9017FF	P1775	9106BB	P2863 (3/8")	9002FF SERIES
P1031	9016FF	P1777	9107BB	P2864 (1/2")	9002FF SERIES
P1036	9011FF	P1796S	9085BC	P3006-P3010	8000 SERIES
P1043A	9055UF	P1873	9020FF	P3045	9061ZF
P1045	9062ZF	P1887	9088PB	P3047	9051UF
P1047	9053UF	P1924	9004FF	P4006-P4010	8050 SERIES
P1048	9054UF	P1941	9008FF	P4012S	8050 SERIES
P1063 (3/8")	9001FF SERIES	P1950	9021FF	P4045	9059ZF
P1064 (1/2")	9001FF SERIES	P1964 (5/8")	9001FF SERIES	P4047	9049UF
P1065	9003FF	P1985S	9083BC	P5545	9063ZF
P1066	9006FF	P2024E-2070-70E	8250 SERIES	P5547	9056UF
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