

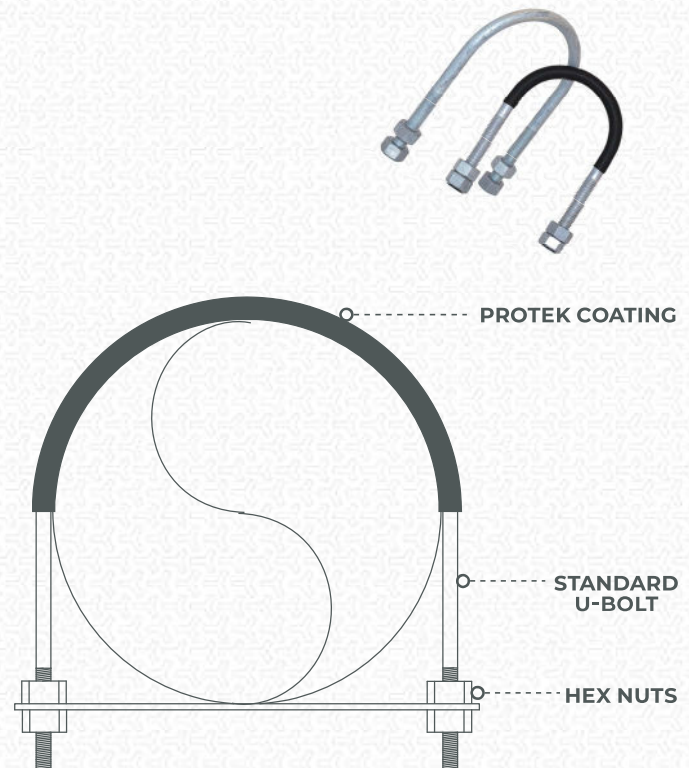
U-Bolts

APP's stocked U-Bolts are built to the standard Grinnell figure 137 specifications and come hot dipped galvanized with nuts included. U-Bolts act as the simplest but also the most widely used pipe guiding restraint. Custom finishes and materials include: Carbon steel, Stainless Steel, Xylan or Teflon coated. Custom sizes are readily available upon request including variable: rod thickness, width, length, and thread length. APP also offers the option to add a buffer pad to the U-Bolt package. Options include: ProTek Flat Plate, ProTek Rod, Neoprene, or PTFE.

OPTION FOR U-BOLTS:

ProTek U-Bolts

APP's ProTek U-Bolts are in stock and combine the strength and simplicity of a u-bolt with our advanced polymer technology. They successfully restrain the pipe while shielding it from metal to metal contact and rough abrasion from pipe movement. The ProTek coating is strong enough to withstand high compressive loads and harsh environmental conditions, but has a low coefficient of friction to seamlessly cradle the pipe.

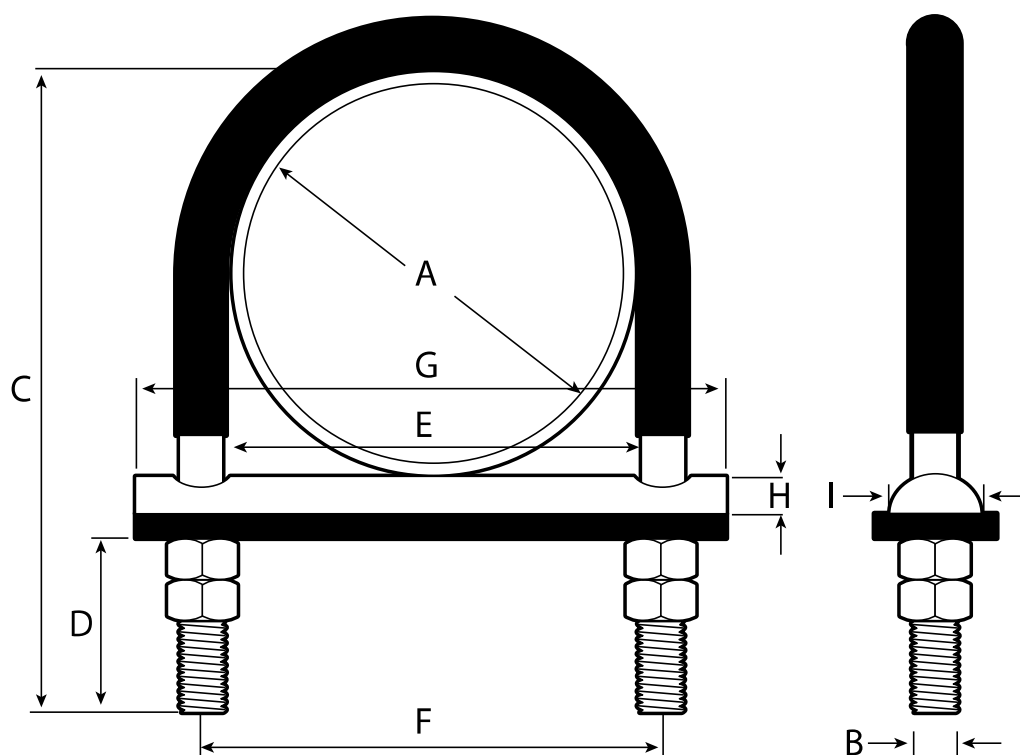


BENEFITS

- » Eliminates metal to metal contact that could damage pipe coatings and lead to corrosion
- » Coating has a low coefficient of friction to allow pipe movement
- » Low cost of installation
- » Product helps minimize maintenance and operational costs throughout the lifetime of the piping system
- » Can be used on any type of pipe.

SPECIFICATIONS

COMPOSITION	Carbon Steel or Stainless Steel
TENSILE STRENGTH (ASTM D412)	1,500 lbs. per square inch
TEMPERATURE RANGE	-67°F to 230°F
INSTALLATION	Four heavy hex nuts
POTENTIAL ACCESSORIES	ProTek Rod, ProTek Package (ProTek Wear Pad and ProTek Flat Plate)
CUSTOM MANUFACTURING	Available in custom sizes and metal finishes including stainless steel, teflon coated and cadmium coated.



ProTek U-Bolt assembly dimensions

(A) Nominal pipe size mm [in]	(B) U-bolt stock Ø mm [in]	(C) U-bolt height mm [in]	(D) Thread length mm [in]	(E) Inside gap mm [in]	(F) Bolt C-to-C mm [in]	(G) ProTek Rod length mm [in]	(H) ProTek Rod height mm [in]	(I) ProTek Rod width mm [in]
15 [1/2]	6 [1/4]	83 [3 1/4]	60 [2 3/8]	24 [15/16]	31 [1 3/16]	64 [2 1/2]	8 [5/16]	19 [3/4]
20 [3/4]	6 [1/4]	85 [3 5/16]	60 [2 3/8]	29 [1 1/8]	35 [1 3/8]	76 [3]	8 [5/16]	19 [3/4]
25 [1]	6 [1/4]	87 [3 7/16]	60 [2 3/8]	35 [1 3/8]	41 [1 5/8]	76 [3]	8 [5/16]	19 [3/4]
25 [1]	10 [3/8]	87 [3 7/16]	60 [2 3/8]	35 [1 3/8]	44 [1 3/4]	76 [3]	11 [7/16]	25 [1]
32 [1 1/4]	10 [3/8]	95 [3 3/4]	64 [2 1/2]	43 [1 3/4]	54 [2 1/8]	89 [3 1/2]	11 [7/16]	25 [1]
40 [1 1/2]	10 [3/8]	102 [4]	64 [2 1/2]	51 [2]	60 [2 3/8]	102 [4]	11 [7/16]	25 [1]
50 [2]	10 [3/8]	114 [4 1/2]	64 [2 1/2]	62 [2 7/16]	71 [2 13/16]	114 [4 1/2]	11 [7/16]	25 [1]
65 [2 1/2]	13 [1/2]	134 [5 1/4]	76 [3]	75 [2 15/16]	87 [3 7/16]	127 [5]	11 [7/16]	25 [1]
80 [3]	13 [1/2]	148 [5 13/16]	76 [3]	90 [3 9/16]	103 [4 1/16]	152 [6]	11 [7/16]	25 [1]
100 [4]	13 [1/2]	173 [6 13/16]	76 [3]	116 [4 9/16]	129 [5 1/16]	178 [7]	11 [7/16]	25 [1]
120 [5]	13 [1/2]	198 [7 13/16]	76 [3]	143 [5 5/8]	156 [6 1/8]	203 [8]	11 [7/16]	25 [1]
150 [6]	16 [5/8]	241 [9 1/2]	95 [3 3/4]	171 [6 3/4]	187 [7 3/8]	229 [9]	11 [7/16]	25 [1]
200 [8]	16 [5/8]	292 [11 1/2]	95 [3 3/4]	222 [8 3/4]	238 [9 3/8]	279 [11]	11 [7/16]	25 [1]
250 [10]	19 [3/4]	351 [13 13/16]	102 [4]	279 [10 7/8]	295 [11 5/8]	343 [13 1/2]	18 [11/16]	38 [1 1/2]
300 [12]	22 [7/8]	408 [16 1/16]	108 [4 1/4]	327 [12 7/8]	349 [13 3/4]	406 [16]	18 [11/16]	38 [1 1/2]
350 [14]	22 [7/8]	440 [17 5/16]	108 [4 1/4]	359 [14 1/8]	381 [15]	432 [17]	18 [11/16]	38 [1 1/2]
400 [16]	22 [7/8]	490 [19 5/16]	108 [4 1/4]	410 [16 1/8]	432 [17]	483 [19]	18 [11/16]	38 [1 1/2]
450 [18]	25 [1]	551 [21 11/16]	121 [4 3/4]	461 [18 1/8]	486 [19 1/8]	546 [21 1/2]	18 [11/16]	38 [1 1/2]
500 [20]	25 [1]	602 [23 11/16]	121 [4 3/4]	511 [20 1/8]	537 [21 1/8]	597 [23 1/2]	18 [11/16]	38 [1 1/2]
600 [24]	25 [1]	703 [27 11/16]	121 [4 3/4]	613 [24 1/8]	638 [25 1/8]	699 [27 1/2]	18 [11/16]	38 [1 1/2]
700 [28]	25 [1]	805 [31 11/16]	121 [4 3/4]	715 [28 1/8]	740 [29 1/8]	800 [31 1/2]	18 [11/16]	38 [1 1/2]
750 [30]	25 [1]	856 [33 11/16]	121 [4 3/4]	765 [31 1/8]	791 [31 1/8]	851 [33 1/2]	18 [11/16]	38 [1 1/2]
900 [36]	25 [1]	1008 [39 11/16]	121 [4 3/4]	918 [36 1/8]	943 [37 1/8]	1003 [39 1/2]	18 [11/16]	38 [1 1/2]