U-BOLTS & STRAPS



☐ Fig.	137: Standard U-bolt
☐ Fig.	1375*: Special U-bolt (non-standard)

U-Bolts

Size Range: 1/2" through 36"

Material: Carbon steel U-bolt and four finished hex nuts

Finish: ☐ Plain or ☐ Fig. 137: Zinc Plated (Hot-Dip Galvanized optional) or ☐ Fig. 137S: Hot-Dip Galvanized

(HDG not available for rod size 1/4". Stanless steel is offered as an alternative.)

Service: Recommended for support, or guide of heavy loads; often employed in power, process plant and marine service.

Approvals: Complies with Federal Specification A-A-1192A (Type 24), WW-H-171-E (Type 24), ANSI/MSS SP-69 and MSS SP-58 (Type 24).

Ordering Fig. 137: Specify pipe size x rod size (e.g., 6 x 5 / $_{8}$), figure number, name. U-bolt will be furnished with longer tangents D or with longer threads E if so required and ordered. If hex nuts are not required, specify "without hex nuts".

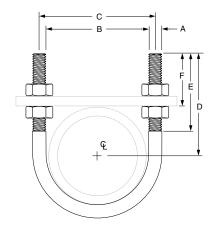
Ordering Fig. 1375: Specify figure number, name, material specification, dimensions A, B, C, D, and E, and "with hex nuts" or "without hex nuts".

Note: The acceptability of galvanized coatings at temperatures above $450^{\circ}F$ is at the discretion of the end user.

FIG. 137: DIMENSIONS (IN) • LOADS (LBS) • WEIGHTS (LBS)■													
Pipe Size	Rod Size	Max Normal Load		650° F Max Side	Wt.	В	С	D	E	F			
0120	A	650° F	750° F	Load									
1/2		580		145	0.11	15/16	1 3⁄16			2 ⁵ / ₁₆			
3/4	1/4		454		0.12	11//8	1%	23/4	2½	27/32			
1					0.12	1%	15%		Z //8	2 ³ / ₃₂			
11/4					0.28	1 ¹¹ / ₁₆	21/16	27//8		2 ¹ / ₃₂			
1½	3/8	1,460	1,144	365	0.30	2	23/8	3	21/2	21/-			
2					0.33	2 ⁷ / ₁₆	2 ¹³ / ₁₆	31/4	272	21/16			
2 ¹ / ₂		1/2 2,700 2,7				0.73	2 ¹⁵ / ₁₆	3 ⁷ / ₁₆	33/4		2 ⁵ / ₁₆		
3									0.78	39/16	4 ¹ / ₁₆	4	
31/2	1/2		2,114	2,114 675	0.84	4 ¹ / ₁₆	49/16	41/4	3	21/4			
4								0.90	4 %16	5 ¹ / ₁₆	4 ½		
5					1.0	55%	6½	5		2 ⁷ / ₃₂			
6	5/8	4,320	4 330	4 320	3,382	1,080	2.0	63/4	73/8	61//8	3½	2 ¹³ / ₁₆	
8	/8	4,320	1,320 3,302	3,302	1,000	2.3	83/4	9%	71//8	3 /2	2 /16		
10	3/4	6,460	5,060	1,615	4.9	101//8	115//8	83%	4	3			
12]				7.7	12 ⁷ /8	13¾	95%	4				
14	7/8	9,960	7,016	2,240	8.3	141//8	15	101/4	41/4	31/4			
16					9.2	16½	17	1111/4	4/4				
18					13.5	181//8	19½	12 ⁵ / ₈					
20	1			_	14.6	201//8	21½	135//8					
24		11,800	9,240		16.9	241//8	251//8		43/4	35/8			
30					19.1	301//8	31½	185//8					
36					23.2	361//8	371//8	21%					

[■] Loads, weights and dimensions shown do not apply for Fig. 137S. Max load rating for carbon steel is based on 2 x load rating for rod. Max load rating for stainless steel is 0.85 times the maximum stated load ratings listed above.





*When the combination of a normal load and a side load occurs, a straight line interaction formula may be used to determine if the Fig. 137 is still within the allowable stress range:

Pn/Pna + Ps/Psa ≤ 1

Where:

Pn = actual applied normal load;

Pna = allowable normal load for the Fig. 137;

Ps = actual applied side load;

Psa = allowable side load for the Fig. 137

Nuts must be snug tight in installation to achieve side loads shown.

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	