

U-Bolts

Fig. 137 Standard U-bolt

Fig. 137S* Special U-bolt (Non-Standard)

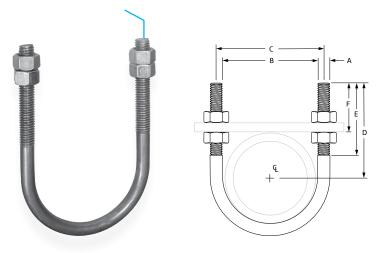


Fig. 137: Dimensions (in) • Loads (lbs) • Weight (lbs)■

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Pipe Size	Rod Size A	Max Normal Load		650° F Max	14/4		_		_	
		650° F	750° F	Side Load	Wt.	В	С	D	E	F
1/2	1/4	580	454	145	0.11	¹⁵ / ₁₆	1 ³ / ₁₆	2³/4	21//8	25/16
3/4					0.12	11//8	13/8			27/32
1					0.12	13/8	15/8			23/32
11/4					0.28	1 ¹¹ / 16	21/16	27/8		21/32
11//2	3/8	1,460	1,144	365	0.30	2	23/8	3	21/	21/
2					0.33	27/16	213/16	31/4	21/2	21/16
21/2		2,700	2,114	675	0.73	215/16	37/16	33/4		25/16
3					0.78	39/16	41/16	$\frac{4}{4^{1}/4}$ 3		21/4
31/2	1/2				0.84	41/16	49/16		3	
4					0.90	49/16	51/16			
5					1.0	55/8	61/8	5		27/32
6	5/8	4,320	3,382	1,080	2.0	$6^{3}/_{4}$	$7^{3}/_{8}$	61/8	31/2	213/16
8	-/8				2.3	83/4	93/8	71/8		
10	3/4	6,460	5,060	1,615	4.9	10 ⁷ / ₈	11 ⁵ / ₈	83/8	4	3
12					7.7	12 ⁷ / ₈	133/4	95/8		
14	7/8	8,960	7,016	2,240	8.3	14 ¹ / ₈	15	101/4	41/4	31/4
16					9.2	161/8	17	1111/4		
18		11,800	9,240	-	13.5	18 ¹ / ₈	19 ¹ / ₈	125/8	43/4	35/8
20					14.6	201/8	211/8	135/8		
24	1				16.9	241/8	251/8	15 ⁵ / ₈		
30					19.1	301/8	311/8	185/8		
36					23.2	361/8	371/8	215/8		

■ 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.

Size Range: ½" through 36"

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

Finish: Plain or Fig. 137: Zinc
Electro-Galvanized or Fig. 137S: Hot-Dip
Galvanized (HDG not available for rod size ¼".
Stainless 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/s), 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. 137S: 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°F is at the discretion of the end user.

Note:

*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:	