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ASTM A453 Grade 660 U Bolt

Class A/B/C/D

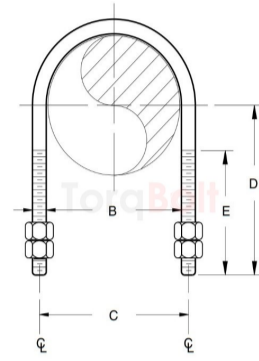
ASTM A453 Grade 660 Class A/B/C/D U-Bolts are recommended for use as supports or guides for piping for high temperature service. They are supplied with four hex nuts.

Compliance : Federal Specification A-A-1192A Type 24, MSS-SP 69 Type 24, and BSPSS-BS3974.

Side loads are given for the Figure 283 for a maximum temperature of 650°F / 343°C. When the loading condition requires the simultaneous application of a normal load and side load, the following interaction equation must be used to determine if the Figure 283 can be used.

(Actual Load / Maximum Design Load) + (Actual Side Load / Maximum Side Load) The result of this equation cannot exceed the value of 1.0 if the Figure 283 is to be used.

Ordering : Specify pipe size, figure number, and finish. For Metric applications Specify M283.



ASTM A453 Grade 660 U Bolt

Pipe Size	Maximum Load		Max. Side Load 650° F/ 343°C	A	B	C	D	E	Weight Each
	650° F 343° C	750° F 399° C							
1/2	485	435	63	1/4	7/8	1 1/8	2 3/4	2 1/8	0.11
15	2157	1935	280	M6	22	29	70	54	0.05
3/4	485	435	63	1/4	1 1/8	1 3/8	2 3/4	2 1/8	0.12
20	2157	1935	280	M6	29	35	70	54	0.05
1	485	435	63	1/4	1 3/8	1 5/8	2 3/4	2 1/8	0.12
25	2157	1935	280	M6	35	41	70	54	0.05
1/2 *	1200	1070	316	3/8	7/8	1 1/4	2 3/4	2 1/8	0.16
15	5338	4760	1406	M10	22	32	70	54	0.07
3/4 *	1200	1070	240	3/8	1 1/8	1 1/2	2 3/4	2 1/8	0.16
20	5338	4760	1068	M10	29	38	70	54	0.07
1 *	1200	1070	186	3/8	1 3/8	1 3/4	2 3/4	2 1/8	0.19
25	5338	4760	827	M10	35	44	70	54	0.09
1 1/4	1220	1090	194	3/8	1 3/4	2 1/8	2 7/8	2 1/8	0.28
32	5427	4849	863	M10	44	54	73	54	0.13
1 1/2	1220	1090	194	3/8	2	2 3/8	3	2 1/2	0.30
40	5427	4849	863	M10	51	60	76	64	0.14
2	1220	1090	194	3/8	2 1/2	2 7/8	3 1/4	2 1/2	0.33
50	5427	4849	863	M10	64	73	83	64	0.15
2 1/2	2260	2020	184	1/2	3	3 1/2	3 3/4	3	0.70
65	10053	8986	819	M12	76	89	95	76	0.32
3	2260	2020	184	1/2	3 5/8	4 1/8	4	3	0.78
80	10053	8986	819	M12	92	105	102	76	0.35
3 1/2	2260	2020	184	1/2	4 1/8	4 5/8	4 1/2	3	0.84
90	10053	8986	819	M12	105	117	114	76	0.38
4	2260	2020	184	1/2	4 5/8	5 1/8	4 1/2	3	0.90
100	10053	8986	819	M12	117	130	114	76	0.41
5	2260	2020	184	1/2	5 5/8	6 1/8	5	3	1.04
125	10053	8986	819	M12	143	156	127	76	0.47
6	3620	3230	277	5/8	6 3/4	7 3/8	6 1/8	3 3/4	2.0
150	16103	14368	1232	M16	171	187	156	95	0.91
8	3620	3230	277	5/8	8 3/4	9 3/8	7 1/8	3 3/4	2.3
200	16103	14368	1232	M16	222	238	181	95	1.0
10	5420	4830	400	3/4	10 7/8	11 5/8	8 3/8	4	4.9
250	24110	21486	1779	M20	276	295	213	102	2.2
12	7540	6730	422	7/8	12 7/8	13 3/4	9 5/8	4 1/4	7.7
300	33541	29938	1877	M20	327	349	244	108	3.5
14	7540	6730	422	7/8	14 1/8	15	10 1/4	4 1/4	8.3
350	33541	29938	1877	M20	359	381	260	108	3.8
16	7540	6730	422	7/8	16 1/8	17	11 1/4	4 1/4	9.2
400	33541	29938	1877	M20	410	432	286	108	4.2
18	9920	8850		1	18 1/8	19 1/8	12 5/8	4 3/4	13.5
450	44128	39368		M24	460	486	321	121	6.1
20	9920	8850		1	20 1/8	21 1/8	13 5/8	4 3/4	14.6
500	44128	39368		M24	511	537	346	121	6.6

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24	9920	8850		1	24 1/8	25 1/8	15 5/8	4 3/4	16.9
600	44128	39368		M24	613	638	397	121	7.7
28	9920	8850		1	28 1/8	29 1/8	17 5/8	4 3/4	18
700	44128	39368		M24	714	740	448	121	8.2
30	9920	8850		1	30 1/8	31 1/8	18 5/8	4 3/4	19.1
750	44128	39368		M24	765	791	473	121	8.7
36	9920	8850		1	36 1/8	37 1/8	21 5/8	4 3/4	23.2
900	44128	39368		M24	918	943	549	121	10.5

ASTM A453 Grade 660 U Bolts Class

CLASS A U BOLTS

CLASS B U BOLTS

CLASS C U BOLTS

CLASS D U BOLTS

ASTM A453 Grade 660 U Bolt Dimensional Standards

Bolts	DIN
U Bolts	3570

Specifications

ASTM A453
ASTM A638
EN 10269
EN 10083-3
ISO 3506-5
DIN 267

Surface Treatments

Xylan 1070 / 1014 / 1400 / 1424
Xylar 2 / 101
SermaGard 1105 / 1280
Dacromet 320 / 500
TakeCoat 1000 Ceramic
Magnigard
MolyKote

Certifications

ISO 9001 - 2015 Certified
PED 2014/68/EC
API 6A ; API 20E; API 20F
NACE MR0175/ISO 15156-2
NORSOK M-650
DFAR
MERKBLATT AD 2000 W2/W7/W10

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