## STANDARD BOLT TORQUE SPECIFICATIONS

IN00V--01

## HOW TO DETERMINE BOLT STRENGTH



	Mark	Class		Mark	Class
Hexagon head bolt	4- 5- Bolt 6- head No. 7- 8- 9- 10- 11-	4T 5T 6T 7T 8T 9T 10T	Stud bolt	No mark	<b>4</b> T
	No mark	<b>4</b> T	·		
Hexagon flange bolt w/ washer hexagon bolt	No mark	<b>4</b> T		Grooved	<b>6</b> T
Hexagon head bolt	Two protruding lines	<b>5</b> T			01
Hexagon flange bolt w/ washer hexagon bolt	Two protruding lines	6Т	Welded bolt		, , , , , , , , , , , , , , , , , , ,
Hexagon head bolt	Three protruding lines	7T			<b>4</b> T
Hexagon head bolt	Four protruding lines	8Т			

## SPECIFIED TORQUE FOR STANDARD BOLTS

Class	D		Specified torque					
	Diameter mm	Pitch mm		Hexagon head bolt			lexagon flan	ge bolt
	111111		N·m	kgf-cm	ft·lbf	N∙m	kgf-cm	ft-lbf
<b>4</b> T	6	1	5	55	48 in.∗lbf	6	60	52 in.∙lbf
	8	1.25	12.5	130	9	14	145	10
	10	1.25	26	260	19	29	290	21
	12	1.25	47	480	35	53	540	39
	14	1.5	74	760	55	84	850	61
	16	1.5	115	1,150	83	_	_	
	6	1	6.5	65	56 in.·lbf	7.5	75	65 inlbf
	8	1.25	15.5	160	12	17.5	175	13
	10	1.25	32	330	24	36	360	26
5T	12	1.25	59	600	43	65	670	48
	14	1.5	91	930	67	100	1,050	76
	16	1.5	140	1,400	101	_	_	_
	6	1	8	80	69 in.∙lbf	9	90	78 in. ·Ibf
	8	1.25	19	195	14	21	210	15
	10	1.25	39	400	29	44	440	32
6T	12	1.25	71	730	53	80	810	59
	14	1.5	110	1,100	80	125	1,250	90
ĺ	16	1.5	170	1,750	127			_
	6	1	10.5	110	8	12	120	9
	8	1.25	25	260	19	28	290	21
	10	1.25	52	530	38	58	590	43
7T	12	1.25	95	970	70	105	1,050	76
	14	1.5	145	1,500	108	165	1,700	123
	16	1.5	230	2,300	166	_	_	_
	8	1.25	29	300	22	33	330	24
8T	10	1.25	61	620	45	68	690	50
	12	1.25	110	1,100	80	120	1,250	90
9Т	8	1.25	34	340	25	37	380	27
	10	1.25	70	710	51	78	790	57
	12	1.25	125	1,300	94	140	1,450	105
10T	8	1.25	38	390	28	42	430	31
	10	1.25	78	800	58	88	890	64
	12	1.25	140	1,450	105	155	1,600	116
117	8	1.25	42	430	31	47	480	35
	10	1.25	87	890	64	97	990	72
	12	1.25	1	890 1,600	116	175	1,800	130
	12	1.20	155	1,000	110	1/3	1,000	130