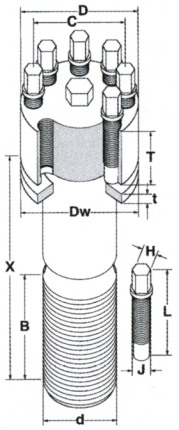
SB8

Torquebolt® Series

> *Bolt stress at standard preload: varies with size • Operating Temperature: -50°F to 500°F*



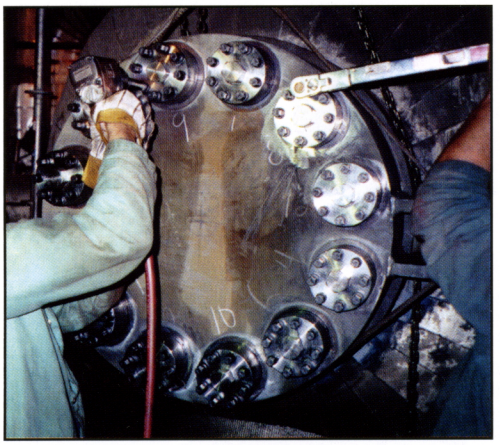
Torquebolts® are most often used for applications with tapped holes. Additionally, the diameter of the Torquebolt® head is smaller than a nut type tensioner, allowing Torquebolts® to fit tighter areas. Also includes an external hex for ease of installation.

NOTE: For permanent bolting applications, preload can be safely increased 30% by increasing specified torque 30%.

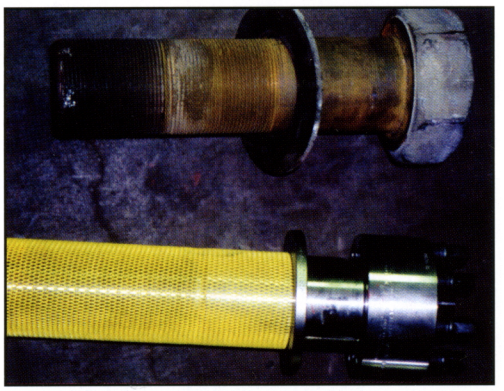
ORDERING INFORMATION: To the part numbers in the table, add your threads per inch (or pitch) requirement and the length required under the head (please account for washer thickness) . Example: for a 2", 8TPI bolt 9" long, order SB8-200-8 x 9.00/w (The /w specifies the standard hardened washer).

Part No	Nominal Thread d In	Head Dimensions O.D. D In	Thick T In	B.C. C In	Nom. Thrd Lgth X In	Lgth B In	Jackbolts OAL L In	No Jbn	Size J In	Hex H In	Washer O.D. Dw In	Thick t In	Standard Pre-Load Lb	Torq Lbft	Wt. Lb
SB8-062-...x.../w	5/8	1.21	.70	.88	3	1.3	1.25	4	1/4	3/16	1.21	.13	20400	11	.5
SB8-075-...x.../w	3/4	1.35	.70	1.00	3	1.5	1.25	4	1/4	3/16	1.35	.13	20400	14	.7
SB8-087-...x.../w	7/8	1.48	.70	1.13	3	1.8	1.25	6	1/4	3/16	1.48	.13	30600	14	.9
SB8-100-...x.../w	1	1.59	.70	1.25	4	2.0	1.25	8	1/4	3/16	1.59	.13	40800	14	1.3
SB8-112-...x.../w	1-1/8	1.83	.90	1.44	4	2.3	1.52	6	5/16	1/4	1.83	.16	48600	27	1.9
SB8-125-...x.../w	1-1/4	1.98	.90	1.56	5	2.5	1.52	8	5/16	1/4	1.98	.16	64800	27	2.6
SB8-137-...x.../w	1-3/8	2.23	1.10	1.75	6	2.8	1.83	6	3/8	5/16	2.23	.20	73800	49	3.9
SB8-150-...x.../w	1-1/2	2.35	1.10	1.88	6	3.0	1.83	8	3/8	5/16	2.35	.20	98400	49	4.6
SB8-162-...x.../w	1-5/8	2.47	1.10	2.00	6	3.3	1.83	10	3/8	5/16	2.47	.20	123000	49	5.3
SB8-175-...x.../w	1-3/4	2.73	1.40	2.19	6	3.5	2.24	8	7/16	3/8	2.73	.25	129600	75	6.7
SB8-187-...x.../w	1-7/8	2.98	1.45	2.38	6	3.8	2.35	8	1/2	7/16	2.98	.25	175200	114	7.9
SB8-200-...x.../w	2	3.20	1.45	2.50	8	4.0	2.35	8	1/2	7/16	3.20	.25	175200	114	11
SB8-225-...x.../w	2-1/4	3.45	1.45	2.75	8	4.5	2.35	10	1/2	7/16	3.45	.25	219000	114	13
SB8-250-...x.../w	2-1/2	3.94	1.80	3.13	8	5.0	2.95	8	5/8	9/16	3.94	.31	285600	233	18
SB8-275-...x.../w	2-3/4	4.20	1.80	3.38	10	5.5	2.95	10	5/8	9/16	4.20	.31	357000	233	25
SB8-300-...x.../w	3	4.47	1.80	3.63	12	6.0	2.95	12	5/8	9/16	4.45	.31	428400	233	33
SB8-325-...x.../w	3-1/4	4.70	2.20	3.88	12	6.5	3.30	14	5/8	9/16	4.70	.31	499800	233	41
SB8-350-...x.../w	3-1/2	4.95	2.20	4.13	12	7.0	3.30	16	5/8	9/16	4.95	.31	571200	233	47
SB8-375-...x.../w	3-3/4	5.44	2.35	4.50	15	7.5	3.63	14	3/4	5/8	5.44	.38	705600	390	65
SB8-400-...x.../w	4	5.70	2.35	4.75	15	8.0	3.63	16	3/4	5/8	5.70	.38	806400	390	73
SB8-425-...x.../w	4-1/4	5.94	2.35	5.00	15	8.5	3.63	16	3/4	5/8	5.94	.38	806400	390	82
SB8-450-...x.../w	4-1/2	6.22	2.35	5.25	18	9.0	3.63	18	3/4	5/8	6.22	.38	907200	390	105
SB8-475-...x.../w	4-3/4	6.44	3.00	5.50	18	9.5	3.88	18	3/4	5/8	6.44	.38	907200	390	123
SB8-500-...x.../w	5	6.70	3.00	5.75	20	10.0	3.88	20	3/4	5/8	6.70	.38	1008000	390	147
SB8-525-...x.../w	5-1/4	6.94	3.00	6.00	24	10.5	4.38	20	3/4	5/8	6.94	.38	1008000	390	186
SB8-550-...x.../w	5-1/2	7.20	3.00	6.25	24	11.0	4.38	20	3/4	5/8	7.20	.38	1008000	390	203
SB8-575-...x.../w	5-3/4	7.44	3.00	6.50	24	11.5	4.38	20	3/4	5/8	7.44	.38	1008000	390	221
SB8-600-...x.../w	6	7.69	3.00	6.75	24	12.0	4.38	20	3/4	5/8	7.69	.38	1008000	390	240

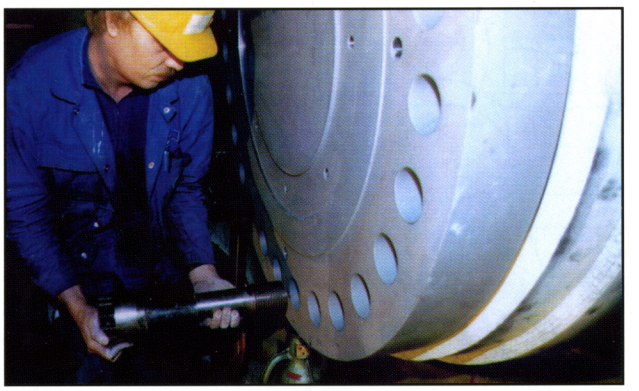
Metric	mm	mm	mm	mm	mm	mm	mm	n	mm	mm	mm	mm	Lb	Lbft	Lb
SB8-M16-...x.../w	M16	31	18	22	76	32	30	4	M6	5	31	3.3	16200	11	.5
SB8-M20-...x.../w	M20	34	18	26	76	40	30	6	M6	5	34	3.3	24300	11	.7
SB8-M24-...x.../w	M24	40	18	30	102	48	30	8	M6	5	40	3.3	32400	11	1.2
SB8-M27-...x.../w	M27	45	23	35	102	54	40	6	M8	6	45	4.1	48600	27	1.7
SB8-M30-...x.../w	M30	50	23	38	127	60	40	6	M8	6	50	4.1	48600	27	2.4
SB8-M33-...x.../w	M33	57	28	43	152	66	47	6	M10	8	57	5.1	77310	53	3.6
SB8-M36-...x.../w	M36	59	28	46	152	72	47	6	M10	8	59	5.1	77310	53	4.2
SB8-M39-...x.../w	M39	63	28	49	152	78	47	8	M10	8	63	5.1	103080	53	4.9
SB8-M42-...x.../w	M42	66	28	52	152	84	47	8	M10	8	66	5.1	103080	53	5.5
SB8-M45-...x.../w	M45	74	37	57	152	90	58	8	M12	10	74	6.4	157200	98	7.3
SB8-M48-...x.../w	M48	75	37	60	203	96	58	8	M12	10	75	6.4	157200	98	9.6
SB8-M52-...x.../w	M52	81	37	64	203	104	58	10	M12	10	81	6.4	196500	98	11
SB8-M56-...x.../w	M56	85	37	68	203	112	58	10	M12	10	85	6.4	196500	98	13
SB8-M60-...x.../w	M60	90	37	72	203	120	58	12	M12	10	90	6.4	235800	98	15
SB8-M64-...x.../w	M64	100	46	80	254	128	75	8	M16	14	100	8	285600	233	21
SB8-M72-...x.../w	M72	111	46	88	254	144	75	10	M16	14	111	8	357000	233	27
SB8-M80-...x.../w	M80	119	56	96	305	160	84	12	M16	14	119	8	428400	233	39
SB8-M90-...x.../w	M90	126	56	106	305	180	84	16	M16	14	126	8	571200	233	48
SB8-M100-...x.../w	M100	145	60	120	381	200	89	12	M20	17	145	10	709200	479	72
SB8-M110-...x.../w	M110	158	60	130	457	220	89	14	M20	17	158	10	827400	479	99
SB8-M120-...x.../w	M120	170	64	140	457	240	95	16	M20	17	170	10	945600	479	119
SB8-M140-...x.../w	M140	188	76	160	610	280	108	20	M20	17	188	10	1182000	479	206
SB8-M160-...x.../w	M160	208	76	180	610	320	108	20	M20	17	208	10	1182000	479	266

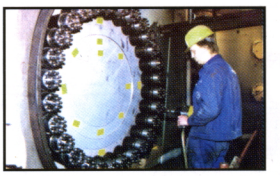


Torquebolts are also available for high temperature service and can be made from a variety of materials. Includes external installation hex on bolt heads for ease of use.



Original bolt (top) and replacement Torquebolt (bottom).





1200 MW Hydro Plant Nozzles on Pelton Turbines. Engineers were able to decrease the size of the nozzles with close spacing of the torquebolts®. Shown is the test plate being installed for hydro testing. Each 400 MW unit has five nozzles.