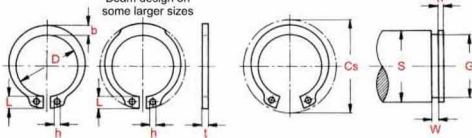


Beam design on some larger sizes



Most sizes over 170mm are without lugs										Measurements in mm & kN					Code No.
Start	Cotlip D thread bar								Groove D thread bar						
	t	Tol	D	Tol	Cs	b	L	l	Ft kN	G	Tol	W	l	Ft kN	
3	0.40		2.7		7.0	0.8	1.9	1.0	0.47	2.8	+0.00 -0.04	0.5	0.3	0.15	EXT0030
4	0.40	+0.00 -0.05	3.7	+0.04 -0.15	8.6	0.9	2.2	1.0	0.50	3.8	+0.00 -0.048	0.5	0.3	0.20	EXT0040
5	0.60		4.7		10.3	1.1	2.5	1.0	1.00	4.8		0.7	0.3	0.26	EXT0050
6	0.70		5.6		11.7	1.3	2.7	1.2	1.45	5.7		0.8	0.5	0.46	EXT0060
7	0.80		6.5		13.5	1.4	3.1	1.2	2.60	6.7		0.9	0.5	0.54	EXT0070
8	0.80		7.4	+0.06 -0.18	14.7	1.5	3.2	1.2	3.00	7.8	+0.00 -0.06	1.1	0.6	0.81	EXT0080
9	1.00		8.4		16.0	1.7	3.3	1.2	3.50	8.6			1.1	0.6	0.92
10	1.00		9.3		17.0	1.8	3.3	1.5	4.00	9.6		1.1	0.6	1.01	EXT0100
11	1.00		10.2		18.0	1.8	3.3	1.5	4.50	10.5		1.1	0.8	1.40	EXT0110
12	1.00		11.0		19.0	1.8	3.3	1.7	5.00	11.5		1.1	0.8	1.53	EXT0120
13	1.00		11.9	+0.10 -0.36	20.2	2.0	3.4	1.7	5.80	12.4	+0.00 -0.11	1.1	0.9	2.00	EXT0130
14	1.00		12.9		21.4	2.1	3.5	1.7	6.35	13.4			1.1	0.9	2.15
15	1.00		13.8		22.6	2.2	3.6	1.7	6.9	14.3		1.1	1.1	2.66	EXT0150
16	1.00		14.7		23.8	2.2	3.7	1.7	7.4	15.2		1.1	1.2	3.26	EXT0160
17	1.00		15.7		25.0	2.3	3.8	1.7	8.0	16.2		1.1	1.2	3.46	EXT0170
18	1.20		16.5		26.2	2.4	3.9	2.0	17.0	17.0		1.3	1.5	4.58	EXT0180
19	1.20		17.5		27.2	2.5	3.9	2.0	17.0	18.0		1.3	1.5	4.84	EXT0190
20	1.20		18.5		28.4	2.6	4.0	2.0	17.1	19.0		1.3	1.5	5.06	EXT0200
21	1.20		19.5	+0.13 -0.42	29.6	2.7	4.1	2.0	16.8	20.0		1.3	1.5	5.36	EXT0210
22	1.20		20.5		30.8	2.8	4.2	2.0	16.9	21.0		1.3	1.5	5.65	EXT0220
23	1.20		21.5		32.0	2.9	4.3	2.0	16.6	22.0		1.3	1.5	5.90	EXT0230
24	1.20		22.2		33.2	3.0	4.4	2.0	16.1	22.9		1.3	1.7	6.75	EXT0240
25	1.20		23.2		34.2	3.0	4.4	2.0	16.2	23.9	+0.00 -0.21	1.3	1.7	7.05	EXT0250
26	1.20		24.2		35.5	3.1	4.5	2.0	16.1	24.9			1.3	1.7	7.34
27	1.20		24.9		36.7	3.1	4.6	2.0	16.4	25.6		1.3	2.1	9.63	EXT0270
28	1.50		25.9	+0.21 -0.42	37.9	3.2	4.7	2.0	32.1	26.6		1.6	2.1	10.00	EXT0280
29	1.50		26.9		39.1	3.4	4.8	2.0	31.8	27.6		1.6	2.1	10.37	EXT0290
30	1.50		27.9		40.5	3.5	5.0	2.0	32.1	28.6		1.6	2.1	10.73	EXT0300
31	1.50		28.6		41.5	3.5	5.0	2.5	31.5	29.3		1.6	2.6	13.85	EXT0310
32	1.50	+0.00 -0.06	29.6		43.0	3.6	5.2	2.5	31.2	30.3		1.6	2.6	13.85	EXT0320
33	1.50		30.5		44.0	3.7	5.2	2.5	31.6	31.3		1.6	2.6	14.30	EXT0330
34	1.50		31.5		45.4	3.8	5.4	2.5	31.3	32.3		1.6	2.6	14.72	EXT0340
35	1.50		32.2		46.8	3.9	5.6	2.5	30.8	33.0		1.6	3.0	17.80	EXT0350
36	1.75		33.2		47.8	4.0	5.6	2.5	49.4	34.0		1.85	3.0	18.33	EXT0360
37	1.75		34.2	+0.25 -0.50	49.0	4.1	5.7	2.5	50.0	35.0		1.85	3.0	18.80	EXT0370
38	1.75		35.2		50.2	4.2	5.8	2.5	49.5	36.0		1.85	3.0	19.30	EXT0380
39	1.75		36.0		51.4	4.3	5.9	2.5	49.8	37.0		1.85	3.8	19.90	EXT0390
40	1.75		36.5		52.6	4.4	6.0	2.5	51.0	37.5		1.85	3.8	20.30	EXT0400
41	1.75		37.5		54.1	4.5	6.2	2.5	50.1	38.5		1.85	3.8	26.00	EXT0410
42	1.75		38.5		55.7	4.5	6.5	2.5	50.0	39.5	+0.00 -0.25	1.85	3.8	26.70	EXT0420
43	1.75		39.5		56.7	4.6	6.5	2.5	49.0	40.5			1.85	3.8	27.30
44	1.75		40.5		57.9	4.6	6.6	2.5	48.5	41.5		1.85	3.8	28.00	EXT0440
45	1.75		41.5		59.1	4.7	6.7	2.5	49.0	42.5		1.85	3.8	28.06	EXT0450
46	1.75		42.5		60.1	4.8	6.7	2.5	48.9	43.5		1.85	3.8	29.04	EXT0460
47	1.75		43.5	+0.39 -0.90	61.3	4.9	6.8	2.5	49.5	44.5		1.85	3.8	30.00	EXT0470
48	1.75		44.5		62.5	5.0	6.9	2.5	49.4	45.5		1.85	3.8	30.07	EXT0480
50	2.00		45.8		64.5	5.1	6.9	2.5	73.3	47.0		2.15	4.5	38.00	EXT0500
51	2.00		46.8		65.7	5.2	7.0	2.5	73.2	48.0		2.15	4.5	38.80	EXT0510
52	2.00		47.8		66.7	5.2	7.0	2.5	73.1	49.0		2.15	4.5	39.70	EXT0520
53	2.00		48.8		68.0	5.3	7.1	2.5	72.2	50.0		2.15	4.5	40.40	EXT0530
54	2.00	+0.00 -0.07	49.8		69.0	5.3	7.1	2.5	71.2	51.0		2.15	4.5	41.20	EXT0540
55	2.00		50.8		70.2	5.4	7.2	2.5	71.4	52.0		2.15	4.5	42.00	EXT0550
56	2.00		51.8	+0.46 -1.10	71.6	5.5	7.3	2.5	70.8	53.0	+0.00 -0.30	2.15	4.5	42.80	EXT0560
57	2.00		52.8		72.4	5.5	7.3	2.5	70.9	54.0			2.15	4.5	43.70
58	2.00		53.8		73.6	5.6	7.3	2.5	71.1	55.0		2.15	4.5	44.30	EXT0580