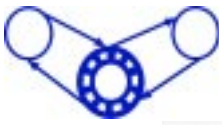


# Townsend Bearings

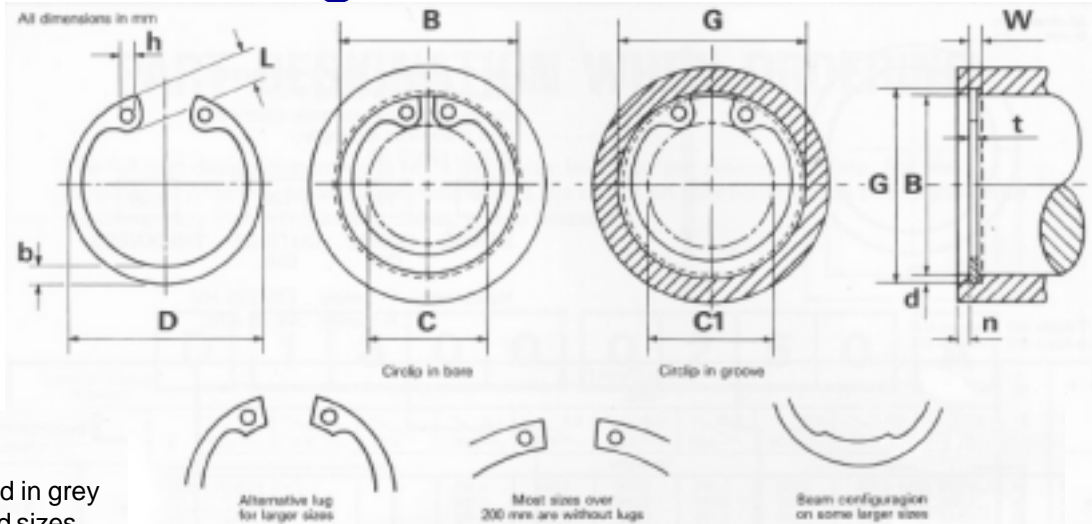


## Circlips



# Townsend Bearings

## Standard Internal Circlips (Euro Spec.) D1300 incorporating DIN 472 & BS3673 Pt. 4



Sizes printed in grey are preferred sizes.

SIZE CODE	Bore		Groove (G)					Circlip (F)									Wt. (kg/k)	Tc† (N)	Tg† (N)		
	B	G	Tol.	W	Tol.	n (min)	d ~	t	Tol.	D	Tol.	C	C1	L (max)	b ~	h (min)					
0080	8	8.4	+0.09 -0.00	0.90	+0.14 -0.00	0.6	0.2	0.80	+0.00	8.7	+0.36 -0.10	3.0	3.6	2.4	1.1	1.0	0.11	6200	600		
0090	9	9.4		0.90		0.6	0.2	0.80	-0.05	9.8		3.7	4.4	2.5	1.3	1.0	1.0	1.0	0.17	7000	680
0095	9.5	9.9	1.10	0.6		0.2	1.00	10.3	3.2	3.9		3.0	1.3	1.2	1.2	1.2	1.2	0.22	9300	720	
0100	10	10.4	1.10	0.6		0.2	1.00	10.8	3.3	4.0		3.2	1.4	1.2	1.2	1.2	1.2	0.24	9700	750	
0110	11	11.4	1.10	0.6		0.2	1.00	11.8	4.1	4.8		3.3	1.5	1.2	1.2	1.2	1.2	0.30	10700	830	
0120	12	12.5	+0.11 -0.00	1.10		0.8	0.3	1.00	13.0	+0.42 -0.13		13.0	4.9	5.7	3.4	1.7	1.5	0.34	11700	1130	
0130	13	13.6		1.10		0.9	0.3	1.00	14.1			5.4	6.4	3.6	1.8	1.5	1.5	1.5	0.39	12700	1470
0140	14	14.6		1.10		0.9	0.3	1.00	15.1			6.2	7.2	3.7	1.9	1.7	1.7	1.7	0.45	13600	1580
0150	15	15.7		1.10		1.1	0.4	1.00	16.2			7.2	8.3	3.7	2.0	1.7	1.7	1.7	0.48	14600	1980
0160	16	16.8		1.10		1.2	0.4	1.00	17.3			8.0	9.2	3.8	2.0	1.7	1.7	1.7	0.54	15600	2410
0170	17	17.8	+0.13 -0.00	1.10	1.2	0.4	1.00	18.3	+0.42 -0.21	18.3	8.8	10.0	3.9	2.1	1.7	0.59	16600	2560			
0180	18	19.0		1.10	1.5	0.5	1.00	19.5		9.4	10.8	4.1	2.2	2.0	2.0	2.0	0.61	17500	3390		
0190	19	20.0		1.10	1.5	0.5	1.00	20.5		10.4	11.8	4.1	2.2	2.0	2.0	2.0	0.72	18500	3580		
0200	20	21.0		1.10	1.5	0.5	1.00	21.5		11.2	12.6	4.2	2.3	2.0	2.0	2.0	0.75	19500	3770		
0210	21	22.0		1.10	1.5	0.5	1.00	22.5		12.2	13.6	4.2	2.4	2.0	2.0	2.0	0.84	20400	3960		
0220	22	23.0	+0.21 -0.00	1.10	1.5	0.5	1.00	23.5	+0.42 -0.21	23.5	13.2	14.6	4.2	2.5	2.0	0.86	21400	4150			
0230	23	24.1		1.30	1.7	0.6	1.20	24.6		14.2	15.7	4.2	2.5	2.0	2.0	2.0	1.20	26900	4770		
0240	24	25.2		1.30	1.8	0.6	1.20	25.9		14.8	16.4	4.4	2.6	2.0	2.0	2.0	1.21	28000	5430		
0250	25	26.2		1.30	1.8	0.6	1.20	26.9		15.5	17.2	4.5	2.7	2.0	2.0	2.0	1.33	29200	5650		
0260	26	27.2		1.30	1.8	0.6	1.20	27.9		16.1	17.8	4.7	2.8	2.0	2.0	2.0	1.35	30400	5880		
0270	27	28.4		1.30	2.1	0.7	1.20	29.1		17.1	19.0	4.7	2.9	2.0	2.0	2.0	1.55	31600	7130		
0280	28	29.4	+0.25 -0.00	1.30	2.1	0.7	1.20	30.1	+0.50 -0.25	30.1	17.9	19.8	4.8	2.9	2.0	1.64	32700	7390			
0290	29	30.4		1.30	2.1	0.7	1.20	31.1		18.9	20.8	4.8	3.0	2.0	2.0	2.0	1.74	33900	7650		
0300	30	31.4		1.30	2.1	0.7	1.20	32.1		19.9	21.8	4.8	3.0	2.0	2.0	2.0	1.87	35100	7920		
0310	31	32.7		1.30	2.6	0.9	1.20	33.4		20.0	22.3	5.2	3.2	2.5	2.5	2.5	2.20	36200	9930		
0320	32	33.7		1.30	2.6	0.9	1.20	34.4		20.6	22.9	5.4	3.2	2.5	2.5	2.5	1.98	37400	10300		
0330	33	34.7		1.30	2.6	0.9	1.20	35.5		21.6	23.9	5.4	3.3	2.5	2.5	2.5	2.13	36800	10600		
0340	34	35.7		1.60	2.6	0.9	1.50	36.5		22.6	24.9	5.4	3.3	2.5	2.5	2.5	2.88	49700	10900		
0350	35	37.0		1.60	3.0	1.0	1.50	37.8		23.6	26.2	5.4	3.4	2.5	2.5	2.5	2.93	51100	13200		
0360	36	38.0		1.60	3.0	1.0	1.50	38.8		24.6	27.2	5.4	4.0	2.5	2.5	2.5	3.23	52600	13600		
0370	37	39.0		+0.25 -0.00	1.60	3.0	1.0	1.50		39.8	+0.90 -0.39	39.8	25.4	28.0	5.5	3.2	2.5	2.98	54100	13900	
0380	38	40.0	1.60		3.0	1.0	1.50	40.8	26.4	29.0		5.5	3.7	2.5	2.5	2.5	3.54	55500	14300		
0400	40	42.5	1.85		3.8	1.3	1.75	43.5	27.8	30.9		5.8	3.9	2.5	2.5	2.5	4.63	56600	18800		
0410	41	43.5	1.85		3.8	1.3	1.75	44.5	28.6	31.7		5.9	4.0	2.5	2.5	2.5	5.37	58000	19300		
0420	42	44.5	1.85		3.8	1.3	1.75	45.5	29.6	32.7		5.9	4.1	2.5	2.5	2.5	5.21	59500	19800		
0450	45	47.5	+0.30 -0.00	1.85	3.8	1.3	1.75	48.5	+1.10 -0.46	48.5	32.0	35.1	6.2	4.3	2.5	5.88	63700	21200			
0470	47	49.5		1.85	3.8	1.3	1.75	50.5		33.5	36.7	6.4	4.4	2.5	2.5	2.5	6.13	66500	22100		
0480	48	50.5		1.85	3.8	1.3	1.75	51.5		34.5	37.7	6.4	4.5	2.5	2.5	2.5	6.31	68000	22600		
0500	50	53.0		2.15	4.5	1.5	2.00	54.2		36.3	40.0	6.5	4.6	2.5	2.5	2.5	8.01	80900	28300		
0510	51	54.0		2.15	4.5	1.5	2.00	55.2		37.3	41.0	6.5	4.7	2.5	2.5	2.5	8.72	82500	28800		
0520	52	55.0		2.15	4.5	1.5	2.00	56.2		37.9	41.6	6.7	4.7	2.5	2.5	2.5	8.91	84100	29400		
0550	55	58.0	2.15	4.5	1.5	2.00	59.2	40.7	44.4	6.8	5.0	2.5	2.5	2.5	9.44	89000	31100				
0560	56	59.0	2.15	4.5	1.5	2.00	60.2	41.7	45.4	6.8	5.1	2.5	2.5	2.5	9.75	90600	31700				
0570	57	60.0	2.15	4.5	1.5	2.00	62.2	42.7	46.4	6.8	5.1	2.5	2.5	2.5	9.56	92200	32200				
0580	58	61.0	2.15	4.5	1.5	2.00	62.2	43.5	47.2	6.9	5.2	2.5	2.5	2.5	10.36	93800	32800				
0600	60	63.0	+0.30 -0.00	2.15	4.5	1.5	2.00	64.2	+1.10 -0.46	64.2	44.7	48.4	7.3	5.4	2.5	11.15	97100	33900			
0620	62	65.0		2.15	4.5	1.5	2.00	66.2		46.7	50.4	7.3	5.5	2.5	2.5	2.5	11.59	100000	35100		
0630	63	66.0		2.15	4.5	1.5	2.00	67.2		47.7	51.4	7.3	5.6	2.5	2.5	2.5	11.78	102000	35600		
0640	64	67.0		2.15	4.5	1.5	2.00	68.2		48.7	52.4	7.3	5.2	2.5	2.5	2.5	16.80	104000	36200		
0650	65	68.0		2.65	4.5	1.5	2.50	69.2		49.0	52.8	7.6	5.8	3.0	3.0	3.0	17.71	131000	36800		

Standard material - carbon spring steel. Standard finish - phosphate and oil.

