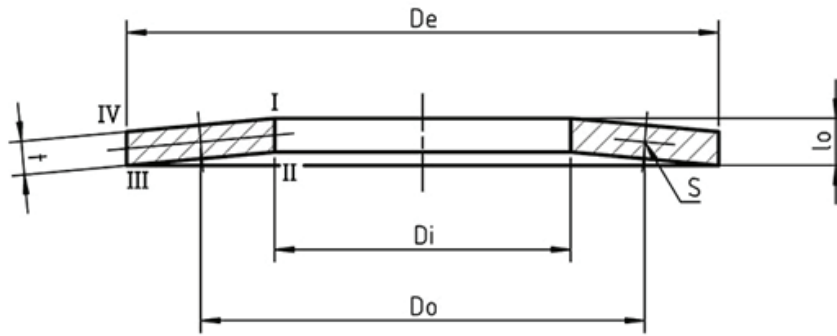




Light Pattern

Group	De(h1)	D1(H12)	t or (t ⁻)	Tolerance	h _o	l _o	Tolerance
1	8	4.2	0.3	+0.10-0.05	0.25	0.55	+0.10
	10	5.2	0.4		0.3	0.7	
	12.5	6.2	0.5		0.35	0.85	
	14	7.2	0.5		0.4	0.9	
	16	8.2	0.6		0.45	1.05	
	18	9.2	0.7		0.5	1.2	
2	20	10.2	0.8	+0.10-0.05	0.55	1.35	+0.15
	22.5	11.2	0.8		0.65	1.45	
	25	12.2	0.9		0.7	1.6	
	28	14.2	1		0.8	1.8	
	31.5	16.3	1.25	+0.15-0.08	0.9	2.15	+0.20
	35.5	18.3	1.25		1	2.25	
	40	20.4	1.5		1.15	2.65	
	45	22.4	1.75		1.	3.05	
	50	25.4	2	+0.20-0.10	1.4	3.4	+0.25
	56	28.5	2		1.6	3.6	
	63	31	2.5		1.75	4.25	
	71	36	2.5		2.3	4.5	
	80	41	3	+0.30-0.15	2.5	5.3	+0.30
	90	46	3.5		2.8	6	
100	51	3.5	3.2		6.3		
112	57	4	3.5		7.2		
3	125	64	5	+0.30-0.15	4	8.5	+0.30
	140	72	5		4.5	10.5	
	160	82	6		5.1	11.1	
	180	92	6				
	200	102	8(7.5)	±0.30	5.6	13.6	
	225	112	8(7.5)		6.5	14.5	
	250	127	10(94)		7	17	



Material: Carbon Spring Steel
 Hardness: 42 to 52HRC

Finish: Phosphating

Heavy Pattern

Group	De(h1)	D1(h1)	t or (t')	Tolerance	hb	lo	Tolerance
1	8	4.2	0.4	+0.02-0.06	0.2	0.6	+0.02
	10	5.2	0.5		0.25	0.75	
	12.5	6.2	0.7	+0.03-0.09	0.3	1	+0.03
	14	7.2	0.8		0.3	1.1	
	16	8.2	0.9		0.35	1.25	
	18	9.2	1		0.4	1.4	
2	20	10.2	1.1	+0.04-0.12	0.45	1.55	+0.04
	22.5	11.2	1.25		0.5	1.75	
	25	12.2	1.5		0.55	2.05	
	28	14.2	1.5		0.65	2.15	
	31.5	16.3	1.75		0.7	2.45	
	35.5	18.3	2		0.8	2.8	
	40	20.43	2.25		0.9	3.15	
	45	22.4	2.5		1	3.5	
	50	25.4	3	1.1	4.1	+0.05	
	56	28.5	3	1.3	4.3		
	63	31	3.5	1.4	4.9	+0.05-0.15	
	71	36	4	1.6	5.6		
	80	41	5	1.7	6.7		
	90	46	5	2	7		
3	100	51	6	±0.10	2.2	8.2	+0.10
	112	57	6		2.5	8.5	
	125	64	8(7.5)		2.6	10.6	
	140	72	8(7.5)		3.2	11.2	
	160	82	10(9.4)		3.5	13.5	
	180	92	10(9.4)		4	14	
	200	102	12(11.25)		4.2	16.2	
	225	112	12(11.25)		5	17	
250	127	14(13.1)	5.6	19.6			