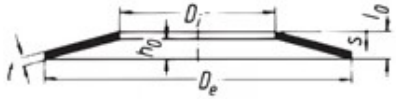DIN 2093

Шайба пружинная тарельчатая



Группы шайб по DIN 2093		
Группа	t	Конструкция
1	< 1.25 мм	без фасок, без опорной плоскости
2	1.25... 6 мм	с фасками, без опорной плоскости
3	> 6 мм	с фасками, с опорной плоскостью

Серии шайб по DIN 2093		
Серия	D_e/t	h_0/t
A	~ 18	~ 0.4
B	~ 28	~ 0.75
C	~ 40	~ 1.3

t – толщина шайбы
l_0 – высота шайбы без деформации
h_0 – расчетная максимальная деформация шайбы

Размеры		Серия A			Серия B			Серия C		
D_e	D_i	t	h_0	l_0	t	h_0	l_0	t	h_0	l_0
8	3.2	0.4	0.2	0.6	-	-	-	-	-	-
		0.5	0.2	0.7	0.3	0.25	0.55	-	-	-
	4.2	0.4	0.2	0.6	0.3	0.25	0.55	0.2	0.25	0.45
10	3.2	-	-	-	0.4	0.3	0.7	0.3	0.35	0.65
		-	-	-	0.5	0.35	0.85	-	-	-
	4.2	0.5	0.25	0.75	0.4	0.3	0.7	-	-	-
		0.6	0.25	0.85	-	-	-	-	-	-
	5.2	0.5	0.25	0.75	0.4	0.3	0.7	0.25	0.3	0.55
12	4.2	0.6	0.4	1	0.5	0.4	0.9	0.4	0.4	0.8
	5.2	0.6	0.35	0.95	0.5	0.4	0.9	-	-	-
	6.2	0.6	0.35	0.95	0.5	0.35	0.85	-	-	-
12.5	6.2	0.7	0.3	1	0.5	0.35	0.85	0.35	0.45	0.8
14	7.2	0.8	0.3	1.1	0.5	0.4	0.9	0.35	0.45	0.8
15	5.2	-	-	-	0.5	0.5	1	0.4	0.55	0.95
		-	-	-	0.6	0.45	1.05	-	-	-
		-	-	-	0.7	0.55	1.25	-	-	-
	6.2	-	-	-	0.5	0.5	1	-	-	-
		0.7	0.4	1.1	0.6	0.45	1.05	-	-	-
	8.2	0.7	0.4	1.1	-	-	-	-	-	-
		0.8	0.4	1.2	-	-	-	-	-	-
16	8.2	0.9	0.35	1.25	0.6	0.45	1.05	0.4	0.5	0.9
18	6.2	-	-	-	0.6	0.6	1.2	0.4	0.6	1.2
		0.8	0.7	1.5	0.7	0.7	1.4	0.5	0.6	1.1
	8.2	-	-	-	0.7	0.55	1.25	-	-	-
		1	0.5	1.5	0.8	0.5	1.3	-	-	-
	9.2	1	0.4	1.4	0.7	0.5	1.2	0.45	0.6	1.05
20	8.2	0.9	0.6	1.5	0.7	0.65	1.35	0.5	0.65	1.15
		1	0.6	1.6	0.8	0.6	1.4	0.6	0.7	1.3
	10.2	1	0.55	1.55	0.8	0.55	1.35	0.4	0.5	0.9
		1.1	0.45	1.55	0.9	0.55	1.45	0.5	0.65	1.15
22.5	11.2	1.25	0.5	1.75	0.8	0.65	1.45	0.6	0.8	1.4
25	12.2	1.5	0.55	2.05	0.9	0.7	1.6	0.7	0.9	1.6
23	8.2	-	-	-	0.8	0.75	1.55	0.7	0.8	1.5
		-	-	-	0.9	0.8	1.7	-	-	-
	10.2	-	-	-	0.9	0.75	1.65	-	-	-
		-	-	-	1	0.7	1.7	-	-	-
	12.2	1.25	0.6	1.85	1	0.6	1.6	-	-	-
		1.5	0.6	2.1	-	-	-	-	-	-

Размеры		Серия A			Серия B			Серия C		
D_e	D_i	t	h_0	l_0	t	h_0	l_0	t	h_0	l_0
28	10.2	-	-	-	1	1	2	0.8	0.95	1.75
		1.5	0.7	2.2	1.25	1	2.25	-	-	-
	12.2	-	-	-	1	0.95	1.95	-	-	-
		1.5	0.75	2.25	1.25	0.85	2.1	-	-	-
	14.2	-	-	-	1	0.8	1.8	0.8	1	1.8
		1.5	0.65	2.15	1.25	0.85	2.1	-	-	-
31.5	16.3	1.75	0.7	2.45	1.25	0.9	2.15	-	-	-
		2	0.75	2.75	1.5	0.9	2.4	0.8	1.05	1.85
34	12.3	-	-	-	1.25	1.2	2.45	-	-	-
		-	-	-	1.5	1.2	2.7	1	1.2	2.2
	14.3	-	-	-	1.25	1.15	2.4	-	-	-
		-	-	-	1.5	1.05	2.55	-	-	-
	16.3	2	0.85	2.85	1.5	1.05	2.55	-	-	-
35.5	18.3	2	0.8	2.8	1.25	1	2.25	0.9	1.15	2.05
40	14.3	-	-	-	1.5	1.3	2.8	-	-	-
		2	1.05	3.05	1.75	1.3	3.05	1.25	1.4	2.65
	16.3	-	-	-	1.5	1.3	2.8	-	-	-
		2	1.1	3.1	1.75	1.35	3.1	-	-	-
	18.3	2	1.15	3.15	-	-	-	-	-	-
	20.4	2	1.1	3.1	1.5	1.15	2.65	1	1.3	2.3
		2.25	0.9	3.15	-	-	-	-	-	-
		2.5	0.95	3.45	-	-	-	-	-	-
45	22.4	2.5	1	3.5	1.75	1.3	3.05	1.25	1.6	2.85
48	16.3	-	-	-	1.5	1.5	3	-	-	-
50	18.4	-	-	-	2	1.65	3.65	1.25	1.6	2.85
		3	1.2	4.2	2.5	1.65	4.15	1.5	1.65	3.15
	20.4	2.5	1.35	3.85	2	1.5	3.5	-	-	-
	22.4	2.5	1.4	3.9	2	1.6	3.6	-	-	-
	25.4	2.5	1.4	3.9	2	1.4	3.4	1.25	1.6	2.85
		3	1.1	4.1	2.25	1.5	3.75	1.5	1.6	3.1
56	28.5	-	-	-	2	1.6	3.6	1.5	1.95	3.45
		3	1.3	4.3	2.5	1.7	4.2	-	-	-
60	20.5	-	-	-	2.5	2.2	4.7	-	-	-
		-	-	-	3	2.2	5.2	2	2.2	4.2
	25.5	3	1.65	4.65	2.5	1.9	4.4	-	-	-
	30.5	3	1.7	4.7	2.5	2	4.5	-	-	-
		3.5	1.5	5	2.75	2	4.75	-	-	-
50	31	3	1.7	4.7	-	-	-	-	-	-
63	31	3.5	1.4	4.9	2.5	1.75	4.25	1.8	2.35	4.15

Размеры		Серия A			Серия B			Серия C		
D_e	D_i	t	h_0	l_0	t	h_0	l_0	t	h_0	l_0
70	24.5	-	-	-	3	2.3	5.3	-	-	-
		-	-	-	3.5	2.5	6	-	-	-
	25.5	-	-	-	-	-	-	2	2.5	4.5
	30.5	-	-	-	2.5	2.4	4.9	-	-	-
		-	-	-	3	2.1	5.1	-	-	-
	35.5	3.5	1.8	5.3	-	-	-	-	-	-
		4	1.8	5.8	3	2.1	5.1	-	-	-
	40.5	4	1.7	5.7	-	-	-	-	-	-
		5	1.4	6.4	-	-	-	-	-	-
71	36	4	1.6	5.6	2.5	2	4.5	2	2.6	4.6
80	30.5	-	-	-	-	-	-	2.5	2.8	5.3
	31	4	2.1	6.1	3	2.5	5.5	-	-	-
	36	-	-	-	3	2.7	5.7	-	-	-
	41	4	2.2	6.2	-	-	-	-	-	-
		5	1.7	6.7	3	2.3	5.3	2.25	2.95	5.2
90	46	5	2	7	3.5	2.5	6	2.5	3.2	5.7
100	41	5	2.75	7.75	4	3.2	7.2	-	-	-
	51	5	2.8	7.8	3.5	2.8	6.3	2.7	3.5	6.2
		6	2.2	8.2	4	3	7	-	-	-
112	57	6	2.5	8.5	4	3.2	7.2	3	3.9	6.9
125	51	6	3.4	9.4	5	3.9	8.9	4	4.5	8.5
	61	6	3.6	9.6	5	4	9	-	-	-
		8	2.9	10.9	-	-	-	-	-	-
	64	7	3	10	5	3.5	8.5	3.5	4.5	8
		8	2.6	10.6	6	3.6	9.6	-	-	-
	71	6	3.3	9.3	-	-	-	-	-	-
		8	2.9	10.9	-	-	-	-	-	-
		10	1.8	11.8	-	-	-	-	-	-
140	72	8	3.2	11.2	5	4	9	3.8	4.9	8.7
150	61	-	-	-	6	4.8	10.8	-	-	-
	71	-	-	-	6	4.85	10.85	-	-	-
	81	8	4	12	-	-	-	-	-	-
		10	3.4	13.4	-	-	-	-	-	-
160	82	10	3.5	13.5	6	4.5	10.5	4.3	5.6	9.9
		11	3.5	14.5	-	-	-	-	-	-
180	92	10	4	14	6	5.1	11.1	4.8	6.2	11
		13	3.5	16.5	-	-	-	-	-	-
200	92	12	4.8	16.8	-	-	-	-	-	-
	102	10	5.6	15.6	-	-	-	-	-	-
		12	4.2	16.2	8	5.6	13.6	5.5	7	12.5
225	112	12	5	17	8	6.5	14.5	6.5	7.1	13.6
250	127	14	5.6	19.6	10	7	17	7	7.8	14.8