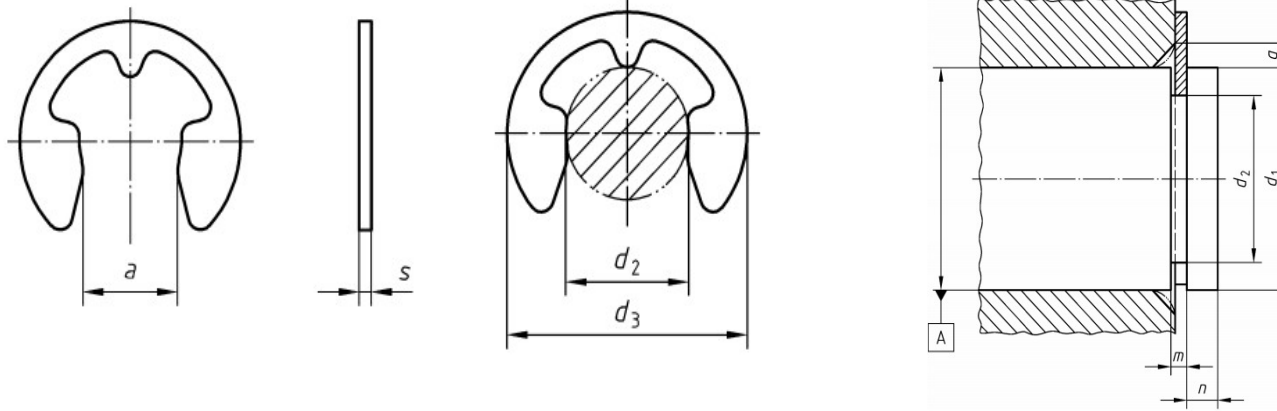


DIN 6799

开口挡圈

Retaining washers for shafts,
English translation of DIN 6799:2017-06



Groove diameter d_2	Shaft diameter d_1	Retaining washer					Groove					Supplementary data						
		S	S	a	a	Mass per 1 000 units in kg	d_2	d_2	ma	ma	n	d_3	Fn		Fs	g	Fsg	nab1
			perm. dev.		perm. dev.			perm. dev.		perm. dev.			kN	d_1	kN		kN	r/min
0.8	$1 \leq d_1 \leq 1.4$	0.20		0.58	± 0.040	0.003	0.8	$\begin{smallmatrix} 0 \\ -0.04 \end{smallmatrix}$	0.24	$\begin{smallmatrix} +0.04 \\ 0 \end{smallmatrix}$	0.40	2.25	0.03	1.20	0.08	0.30	0.04	50000
1.2	$1.4 \leq d_1 \leq 2.0$	0.30		1.01		0.009	1.2	$\begin{smallmatrix} 0 \\ -0.06 \end{smallmatrix}$	0.34		0.60	3.25	0.04	1.50	0.12	0.40	0.06	47000
1.5	$2 \leq d_1 \leq 2.5$	0.40		1.28		0.021	1.5		0.44		0.80	4.25	0.07	2.00	0.22	0.60	0.11	43000
1.9	$2.5 \leq d_1 \leq 3$	0.50		1.61		0.040	1.9		0.54		1.00	4.80	0.10	2.50	0.35	0.70	0.17	40000

2.3	3≤d1≤4	0.60	±0.02	1.94	±0.048	0.069	2.3	0 -0.075	0.64	+0.05 0	1.00	6.30	0.15	3.00	0.50	0.90	0.24	38000
3.2	4≤d1≤5	0.60		2.70		0.088	3.2		0.64		1.00	7.30	0.22	4.00	0.65	0.90	0.32	35000
4	5≤d1≤7	0.70		3.34		0.158	4.0		0.74		1.20	9.30	0.25	5.00	0.95	1.00	0.47	32000
5	6≤d1≤8	0.70		4.11		0.236	5.0		0.74		1.20	11.30	0.90	7.00	1.15	1.00	0.60	28000
6	7≤d1≤9	0.70		5.26		0.255	6.0		0.74		1.20	12.30	1.10	8.00	1.35	1.10	0.70	25000
7	8≤d1≤11	0.90		5.84		0.474	7.0		0.94		1.50	14.30	1.25	9.00	1.80	1.30	1.00	22000
8	9≤d1≤12	1.00	±0.03	6.52	±0.058	0.660	8.0	0 -0.09	1.05	+0.08 0	1.80	16.30	1.42	10.00	2.50	1.50	1.25	20000
9	10≤d1≤14	1.10		7.63		1.090	9.0		1.15		2.00	18.80	1.60	11.00	3.00	1.61	1.50	17000
10	11≤d1≤15	1.20		8.32		1.250	10.0		1.25		2.00	20.40	1.70	12.00	3.50	1.80	1.75	15000
12	13≤d1≤18	1.30		10.45	±0.070	1.630	12	0 -0.11	1.35		2.50	23.40	3.10	15.00	4.70	1.90	2.30	13000
15	16≤d1≤24	1.50		12.61		3.370	15		1.55		3.00	29.40	7.00	20.00	7.80	2.20	3.30	11000
19	20≤d1≤31	1.75		15.92		6.420	19	0 -0.13	1.80		3.50	37.60	10.00	25.00	11.00	2.50	3.60	7600
24	25≤d1≤38	2.00		21.88		±0.084	8.550		24		2.05	4.00	44.60	13.00	30.00	15.00	3.00	4.00
30	32≤d1≤42	2.50		25.80	12.500		30		2.55		4.50	52.60	16.50	36.00	23.00	3.50	5.30	4200
Material			C67S or C75S spring steel as in DIN EN 10132-4 (at the manufacturer's discretion).															
hardness			shall be 460 HV to 580 HV or 46 HRC to 54 HRC.															
Testing the flatness			The retaining washer shall fall through two parallel, perpendicular plates with a clearance of 1,1 × s (nominal size)															
Testing the function (permanent set and grip test)			The retaining washer shall be fitted three times onto a hardened pin with groove diameter (minimum dimension) and removed two times. It shall remain in position still under tension each time it is fitted.															
Bend and fracture test			The retaining washer shall be fitted radially onto a hardened pin with a diameter of 1,1 × d2 (nominal size) and kept at ambient temperature for 48 hours. The retaining washer shall not break.															
Other Technical Requirements			see DIN6799-2017															