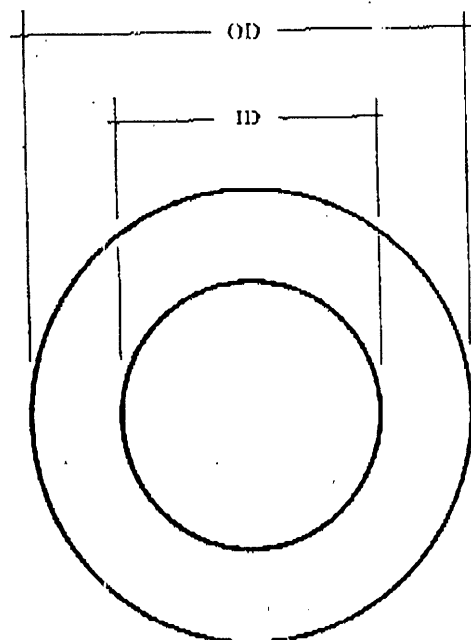


CRINKLE WASHER

SIZE RANGE

ISO METRIC BS4463: 1969

Nominal size and thread diameter	Inside diameter		Outside diameter		Height		Thickness
	max.	min.	max.	min.	max.	min.	nominal
	m/m	m/m	m/m	m/m	m/m	m/m	m/m
M1.6	1.8	1.7	3.7	3.52	0.51	0.36	0.16
M2	2.3	2.2	4.6	4.42	0.53	0.38	0.16
M2.5	2.8	2.7	5.8	5.62	0.53	0.38	0.16
M3	3.32	3.2	6.4	6.18	0.61	0.46	0.16
M3.5	3.82	3.7	6.9	6.68	0.79	0.63	0.20
M4	4.42	4.3	8.1	7.88	0.84	0.69	0.28
M5	5.42	5.3	9.2	8.98	0.89	0.74	0.30
M6	6.55	6.4	11.5	11.23	1.14	0.99	0.40
M8	8.55	8.4	15.0	14.73	1.40	1.25	0.40
M10	10.68	10.5	19.6	19.27	1.70	1.55	0.55
M12	13.18	13.0	22.0	21.67	1.90	1.65	0.55
M16	17.18	17.0	27.8	27.47	2.41	2.16	0.70
M20	21.21	21.0	34.7	34.31	2.66	2.16	0.70



3 equi-spaced radial corrugations, radii of upper and lower corrugations are equal

BA UNIFIED AND IMPERIAL BS3401 1961

Nominal size		Inside Diameter		Outside diameter		Height		Thickness
American No. size	B. A. size	max.	min.	max.	min.	max.	min.	nominal
		in	in	in	in	in	in	in
0	10	0.080	0.075	0.155	0.145	0.020	0.014	0.0060
2	8	0.100	0.095	0.211	0.201	0.021	0.015	0.0060
4	6	0.130	0.125	0.255	0.245	0.024	0.018	0.0060
5	5	0.139	0.134	0.270	0.260	0.024	0.018	0.0060
6	4	0.157	0.152	0.305	0.295	0.031	0.025	0.0084
8	3	0.181	0.176	0.345	0.335	0.033	0.027	0.0108
10	2	0.208	0.203	0.380	0.370	0.035	0.029	0.0124
12	0	0.256	0.251	0.505	0.495	0.045	0.039	0.0148
in								
1/4		0.271	0.266	0.505	0.495	0.045	0.039	0.0148
5/16		0.337	0.332	0.605	0.595	0.055	0.049	0.0148
3/8		0.411	0.406	0.705	0.695	0.067	0.061	0.0220
7/16		0.474	0.469	0.825	0.815	0.075	0.065	0.0220
1/2		0.536	0.531	0.955	0.945	0.081	0.071	0.0220
5/8		0.661	0.656	1.175	1.165	0.095	0.085	0.0280
3/4		0.786	0.781	1.395	1.385	0.105	0.085	0.0280

TOGGLE WASHERS

Defence Standard		Outside Diameter	Inside Diameter	Height	Thickness
		in.	in.	in	in
53-30	Fig. 1	.875 Across flats .531	.625	.055	.012
53-30	Fig. 2	.843	.500	.055	.0148
53-30	Fig. 3	.680	.400	.065	.010
53-30	Fig. 3	.680	.400	.069	.0148
53-30	Fig. 3	.600	.400	.048	.0148

* 'SPECIALS'

We are pleased to quote customers non-standard requirements. Our design and technical office is always available for consultation

WHITTON

Precision Ltd