



DIMENSIONS AND FEATURES							PROOF CONDITIONS		PACKAGING		
For screws of	d min.-max.	D min.-max.	s min.-max.	h min.-max.	No. of knurls	Kg/1000 pieces	Loading test [N] [N]	Min. residual deflection	No. of pcs standard packaging	No. of pcs bulk packaging	No. of pcs micro packaging
M 3.0	3.10-3.35	5.76-6.24	0.47-0.53	0.70-0.90	28	0.081	2400	0.10	2000	175000	
M 4.0	4.10-4.40	7.71-8.29	0.77-0.83	1.00-1.20	32	0.200	4200	0.12	2000	45000	
M 5.0	5.10-5.40	9.71-10.29	0.96-1.04	1.25-1.50	36	0.456	6800	0.15	1000	25000	
M 6.0	6.10-6.40	11.65-12.35	1.16-1.24	1.55-1.85	45	0.790	9500	0.20	1000	12500	
M 8.0	8.20-8.56	15.65-16.35	1.36-1.44	1.80-2.20	45	1.500	17500	0.25	1000	7000	
M 10.0	10.20-10.56	19.58-20.42	1.55-1.65	2.10-2.60	45	2.640	27500	0.35	1000	3500	
M 12.0	12.40-12.83	23.58-24.42	1.75-1.85	2.40-2.90	45	4.350	40000	0.40	500	2000	

Dimensions in mm

Technical details:

Hardness: 420 - 510 Hv.

Tightening torques: see table.

Chemical analysis of raw material: see table.

Anticorrosion surface treatment:

Burnishing and light oiling.

White mech. zinc plating 12my Cr6 free.

Yellow mech. zinc plating 12my Cr6 free.

Delta Protekt® KL 100 6-10 my.

Geomet® 321 type A 5-7 my.

Other coatings upon customer request.

Features and specific use:

Washer with elasticity that has a round, knurled ring with resistance to loosening on its contact surface with the screw's underhead.

In every range of applications where resistance to loosening and elastic stress are required with a small washer diameter.