



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	7.71-8.29	0.57-0.63	0.80-1.00	28	0.180	2400	0.15	2000	60000	200
M 4.0	4.10-4.40	9.71-10.29	0.86-0.94	1.15-1.40	32	0.430	4200	0.15	2000	25000	500
M 5.0	5.10-5.40	11.65-12.35	1.06-1.14	1.45-1.80	36	0.720	6800	0.20	1000	15000	200
M 6.0	6.10-6.40	13.65-14.35	1.26-1.34	1.75-2.10	45	1.254	9500	0.25	1000	10000	200
M 8.0	8.20-8.56	17.65-18.35	1.36-1.44	1.90-2.35	45	2.000	17500	0.35	1000	5000	100
M 10.0	10.20-10.56	21.58-22.42	1.55-1.65	2.25-2.75	45	3.600	27500	0.45	1000	3000	100
M 12.0	12.40-12.83	26.58-27.42	1.75-1.85	2.60-3.10	45	6.316	40000	0.60	500	1750	50
M 14.0	14.40-14.83	29.58-30.42	2.34-2.46	3.20-3.70	45	9.700	55000	0.60	250	1000	
M 16.0	16.40-16.83	31.50-32.50	2.74-2.86	3.60-4.10	60	12.100	75000	0.65	250	900	
M 20.0	20.50-21.02	39.50-40.50	3.14-3.26	4.30-4.90	60	22.100	100000	0.70	100	500	

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 field of applications in which high resistance to loosening and elastic stress are required on large supporting surface.