Tightening torques

Contact face/head support made from A2 or A4 stainless steel.
Coefficient of friction for thread and head support μges = 0.23.
Preload force based on 80% of the 0.2% yield point of Rp0.2 = 200 N/mm^2.

	Coefficient of friction μges	Hole Ø [mm]	Head Ø [mm]	Tensile stress cross section As of thread undercut [mm^2]	Preload force FV [N]	Tightening torque MA [Nm]
M3	0,23	3,4	8	3,80	608	0,7
M4	0,23	4,5	11	6,61	1.057	1,6
M5	0,23	5,5	14	10,75	1.720	3,2
M6	0,23	6,6	17	15,21	2.433	5,5
M8	0,23	9	20	28,27	4.524	12,8
M10	0,23	11	22	46,57	7.450	25,0
M12	0,23	13,5	27	69,40	11.104	45,2
M16	0,23	17,5	36	132,73	21.237	114,1
M20	0,23	22	36	211,24	33.799	211,2