Recommended Application Torques for Thermo Scientific Nalgene Closures

Closure Size, mm	Minimum Torque in - lb	Minimum Torque cm - kg	Maximum Torque[1] in - lb	Maximum Torque[1] cm - kg
11	2	3	3	4
13-415	5	6	7	8
20-415	10	11	14	16
24-415	12	13	17	19
28-415	16	18	22	25
33-415	20	23	28	32
38*	27	31	33	38
38-415	22	25	31	35
38-430	27	31	33	38
43-415	28	32	39	44
48-415	30	34	42	48
48*	30	34	42	48
53-415	33	38	46	52
53B	38	43	53	60
63-415	40	46	56	64
70	44	50	62	71
83B	60	69	85	96

1 This number should not be exceeded. It is strongly recommended that users verify these torque numbers, based on their applications. For more information, contact technical.nalgene@thermofisher.com.

*Biotainer Closures