

Metric		Imperial			ASTM A193 B7 Torque ($\mu=0.12$)
Bolt	Nut AF	Bolt	Nut AF	Nut AF	
Metric	Metric	Imperial	Imperial	Metric	Ftlbs
M24	36	7/8"	1.7/16"	36.5	250
M27	41	1"	1.5/8"	41.3	400
M30	46	1.1/8"	1.13/16"	46.0	550
M33	50	1.1/4"	2"	50.8	800
M36	55	1.3/8"	2.3/16"	55.6	1,050
M39	60	1.1/2"	2.3/8"	60.3	1,400
M42	65	1.5/8"	2.9/16"	65.1	1,800
M45	70	1.3/4"	2.3/4"	69.9	2,300
M48	75	1.7/8"	2.15/16"	74.6	2,800
M52	80	2"	3.1/8"	79.4	3,400
M56	85	2.1/4"	3.1/2"	88.9	4,900
M64	95	2.1/2"	3.7/8"	98.4	6,800
M70	100				8,998
M72	105	2.3/4"	4.1/4"	108.0	9,100
M76	110	3"	4.5/8"	117.5	11,900
M82	120				14,751
		3.1/4"	5"	127.0	15,300
M90	130	3.1/2"	5.3/8"	136.5	19,100
M95	135	3.3/4"	5.3/4"	146.1	23,600

Guidelines from ASME PCC.1-2010 Pressure Boundary Bolted Flange Joint Assembly