

(2) Stud Bolts

Material of opponent part Unit Diameter	Ordinariness			Aluminum		
	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M8 (8 mm, 0.31 in.)	11.8	1.2	8.68	8.82	0.90	6.51
	to 15.6	to 1.6	to 11.5	to 11.8	to 1.2	to 8.67
M10 (10 mm, 0.39 in.)	24.6	2.5	18.1	19.7	2.0	14.5
	to 31.3	to 3.2	to 23.1	to 25.4	to 2.6	to 18.8
M12 (12 mm, 0.47 in.)	29.5	3.0	21.7	31.4	3.2	23.1
	to 49.0	to 5.0	to 36.1			

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(3) Hydraulic Hoses Fitting

Item	Thread size	Tightening torque		
		N·m	kgf·m	ft-lbs
Adjustable elbow	9/16	37 to 44	3.7 to 4.6	27 to 33
	3/4	47 to 54	4.8 to 5.5	35 to 40
Hose fitting and flare nut	9/16	22 to 25	2.2 to 2.6	16 to 19
	3/4	35 to 41	3.6 to 4.1	26 to 30
Adaptor (NPT)	3/8	39 to 44	3.9 to 4.4	28 to 32
	1/2	49 to 58	5.0 to 5.9	36 to 43

NOTE : When connecting a hose with flare nut, after tightening the nut with specified torque, return it approximately 45 degrees and re-tighten it to specified torque.

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