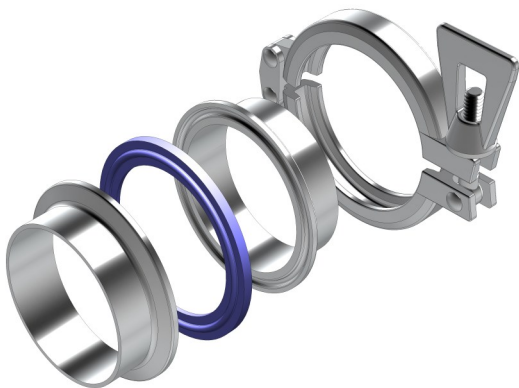


TC Clamps, GRQ6 & GRQ6X

Torque Values



TC Union : 2 x TC Ferrules, 1 x TC Gasket, 1 x GRQ /
13MHMD Clamp

GRQ Clamps, Torque Values¹

Ferrule / Clamp Size (inch)	Gasket Material				
	EPDM N/m [lbf/ft]	Silicone N/m [lbf/ft]	VITON® (FKM) N/m [lbf/ft]	PTFE Solid ² N/m [lbf/ft]	PTFE Envelope ² N/m [lbf/ft]
0.50"	5.0 [3.7] ³	4.5 [3.3] ³	5.0 [3.7] ³	6.0 [4.4] ³	5.0 [3.7] ³
0.75"	4.0 [3.0] ³	4.0 [3.0] ³	4.0 [3.0] ³	6.0 [4.4] ³	5.0 [3.7] ³
1.00"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	7.0 [5.2]	6.0 [4.4]
1.50"	5.0 [3.7]	4.5 [3.3]	5.0 [3.7]	6.0 [4.4]	5.0 [3.7]
2.00"	5.0 [3.7]	4.5 [3.3]	5.0 [3.7]	6.0 [4.4]	5.0 [3.7]
2.50"	5.0 [3.7]	4.5 [3.3]	5.0 [3.7]	6.0 [4.4]	5.0 [3.7]
3.00"	5.0 [3.7]	4.5 [3.3]	5.0 [3.7]	6.0 [4.4]	5.0 [3.7]
3.50"	5.0 [3.7]	4.5 [3.3]	5.0 [3.7]	6.0 [4.4]	5.0 [3.7]
4.00"	5.0 [3.7]	4.5 [3.3]	5.0 [3.7]	6.0 [4.4]	5.0 [3.7]
4.50"	5.0 [3.7]	4.5 [3.3]	5.0 [3.7]	6.0 [4.4]	5.0 [3.7]
5.00"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]
5.50"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]
6.00"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]
6.58"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]
8.00"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]
8.58"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]
10.00"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]
10.58"	6.0 [4.4]	5.0 [3.7]	6.0 [4.4]	6.0 [4.4]	6.0 [4.4]

¹ Torque values should be taken as a guideline only. We recommend all users monitor their clamp unions performance looking for signs of leaking, gasket extrusion / intrusion and clamp alignment. Guideline torque values given are subject to numerous variables including: Gasket manufacturer tolerances, Gasket shore hardness, Ferrule tolerances & Assembly conditions mainly temperature.

² PTFE/Teflon is a plastic and as such has no shape memory and will suffer cold flow over time (permanently distorts). The torquing of clamp unions featuring PTFE/Teflon gasket must repeated 24 hours after initial torquing.

³ 0.50" & 0.75" Clamp unions differ in style to the larger sizes, they feature a metal-to-metal contact between the two ferrules when fully tightened. This contact may be achieved before the published torque valves are reached, care must be taken not to carry on torquing after the metal-to-metal contact has already been achieved. (felt by a rapid rise in torque for minimal wing-nut movement)