Bolting Torque Specifications

The Primary concern in determining pressure ratings is the clamp load of the bolts and nuts. Conoflow offers carbon steel, stainless steel, and high-strength stainless steel bolts/nuts.

Using Carbon Steel Grade 5 bolts and Grade 8 nuts will maintain the maximum pressure rating of the seal.

The use of 300 Series Stainless Steel bolts and nuts will reduce the pressure rating by 50 %.

When 300 Series Stainless Steel bolts and nuts are required and the maximum pressure rating must be maintained, then stainless steel high-strength bolts are necessary.

When bolt through mounting is not feasible, then flange studs are provided.

The following torque values are for SAE Grade 5 Steel shank bolts, dry lubricated, using SAE Grade 5 Nuts or high-strength stainless steel bolts and nuts or internally threaded mating parts.

The following torque values are for 304 Stainless Steel shank bolts, dry lubricated, using 304 Stainless Steel nuts or internally threaded mating parts.

Bolt Size	Torque	Torque	Bolt Size	Torque	Torque
	FT-LB	IN-LB		FT-LB	IN-LB
1/4-20	8	96	1/4-20	5	60
1/4-28	10	120	1/4-28	6	72
5/16-18	17	204	5/16-18	10	120
5/16-24	19	228	5/16-24	12	144
3/8-16	29	348	3/8-16	18	216
3/8-24	35	420	3/8-24	22	264
7/16-14	47	564	7/16-14	29	348
7/16-20	55	660	7/16-20	34	408
1/2-13	72	864	1/2-13	45	540
1/2-20	85	1020	1/2-20	53	636
9/16-12	103	1236	9/16-12	64	768
9/16-18	121	1452	9/16-18	75	900
5/8-11	142	1704	5/8-11	88	1056
5/8-18	168	2016	5/8-18	104	1248