Durlon[®] Bolt Tightening Worksheet

We recommend the completion of any installation assembly worksheet with the details, including the installer signature and date for verification. You can use the Durlon[®] worksheet for easy adoption into your QC program.

Location/Identification:			Nominal E	Bolt Size:	
Gasket Contact Surface Finish on Flange:		Lubricant Used:			
(Initial each step as you	progress through the list	below.)			
1. Be sure syst	em is at ambient tempera	ture and depressurized.	Follow local safety rules.		
2. Visually examine and clean flanges, bolts, nuts and washers. Replace components if necessary.					
3. Lubricate bolts, nuts, and nut bearing surfaces. Use of hardened steel waters are recommended.					
4. Install new gasket. DO NOT REUSE OLD GASKET, OR MULTIPLE GASKETS.					
5. Number boli	ts in cross-pattern sequen	ce according to the appr	opriate illustrations below	W.	
6. Importan	T! <u>HAND TIGHTEN NUTS,</u>	then using a hand wre	nch, SNUG BOLTS ½ T	<u>D ¼ turn,</u> following the	appropriate cross-
pattern tightening sequence for the number of bolts below.					
7. Starting at the #1 bolt, use the appropriate cross-pattern tightening sequence for Rounds 1, 2, and 3					
(each seque	nce constitutes a "Round").			
4-holt	8-holt	12-holt	16-holt	20-holt	24-holt
Final Torque: Ft-lbs					
LUBRICATE, HAND TIGHTEN, PRE-TIGHTEN BOLTS					
Round 1: Tighten to Ft-lbs - 1st torque value in torque chart (30% of final torque)					
Round 2: Tighten to Ft-lbs - 2nd torque value in torque chart (60% of final torque)					
Round 3: Tighten to Ft-lbs - Final torque value in torque chart (100% of final torque)					
Oberly seen at 000 interms			- I		
If the gap is not reasona	als around the nange bety hly uniform make the and	ronriate adjustments hv	<u>s.</u> Larger manges may req selective holt tightening	hefore proceeding	smaner milervais.
			Solocitio Boit (Ightoning	boloro procoding.	
Rotational Round - 100% of Final Torque (same as Round 3). Use rotational, clockwise tightening sequence, starting with Bolt No. 1, for					
at least two complete rounds and continue until no further nut rotation occurs at 100% of the Final Torque value for any nut.					
Determue Sh	ort torm bolt proload loor	aan aaaur batwaan faur	to twopty four hours off	or initial tightoning due to	halt relevation and/or
gasket creep. I	Repeating the Rotational S	Sound recovers this loss.	This is especially importa	ant for PTFE gaskets.) DOIL TETAXALION ANU/O
Joint Assembler:			Date:		
For torque questions, of **This page can be copied for	or tightening patterns f use in the field**	or large diameter flan	ges, contact tech @du	rlon.com	