



an EnPro Industries company



Torque Table for GPT Isolating Gaskets - ASME B16.5 AND B16.47 Flanges								
NPS	150#	300#	400#	600#	900#	1500#	2500#	NPS
	ASME B16.5 Recommended Values in [ft-lb]							
1/2	30	30	30	30	95	95	95	1/2
3/4	30	55	55	55	95	95	95	3/4
1	30	55	55	55	155	155	155	1
1 1/4	30	55	55	55	155	155	230	1 1/4
1 1/2	30	95	95	95	230	230	335	1 1/2
2	55	55	55	55	155	150	230	2
2 1/2	55	95	95	95	230	230	335	2 1/2
3	55	95	95	95	155	335	470	3
3 1/2	55	95	155	155	n/a	n/a	n/a	3 1/2
4	55	95	155	155	335	470	840	4
5	95	95	155	230	470	840	1370	5
6	95	95	155	230	335	640	2080	6
8	95	155	230	335	640	1085	2080	8
10	155	230	335	470	640	1700	4165	10
12	155	335	470	470	640	2080	5595	12
14	230	335	470	640	840	3005	n/a	14
16	230	470	640	840	1085	4165	n/a	16
18	335	470	640	1085	1700	5595	n/a	18
20	335	470	840	1085	2080	7320	n/a	20
22	470	840	1085	1370	n/a	n/a	n/a	22
24	470	840	1370	1700	4165	11765	n/a	24
ASME B16.47								
26	470	1085	1370	1700	5595	n/a	n/a	26
28	470	1085	1700	2080	7320	n/a	n/a	28
30	470	1370	2080	2080	7320	n/a	n/a	30
32	840	1700	2080	3005	9370	n/a	n/a	32
34	840	1700	2080	3005	11765	n/a	n/a	34
36	840	2080	2080	4165	11765	n/a	n/a	36
38	840	840	1370	3005	11765	n/a	n/a	38
40	840	1085	1700	3005	11765	n/a	n/a	40
42	840	1085	1700	4165	11765	n/a	n/a	42
44	840	1370	2080	4165	14540	n/a	n/a	44
46	840	1700	2080	4165	17720	n/a	n/a	46
48	840	1700	3005	5595	17720	n/a	n/a	48
50	1370	2080	3005	7320	n/a	n/a	n/a	50
52	1370	2080	3005	7320	n/a	n/a	n/a	52
54	1370	3005	4165	7320	n/a	n/a	n/a	54
56	1370	3005	4165	9370	n/a	n/a	n/a	56
58	1370	3005	4165	9370	n/a	n/a	n/a	58
60	1370	3005	5595	11765	n/a	n/a	n/a	60

Notes-  
1. All values are calculated assuming a 0.11 Coefficient of Friction and new nuts and studs using NON-Metallic lubrication.

2. "M" Maintenance Factor = 0  
"Y" Minimum Design Seating Stress = 7500 [psi]. For Evolution isolating gasket "Y" = 0.

3. Recommended values are based on 30,000 psi bolt stress.

4. If using BOTH lubricated AND coated studs, contact GPT for recommended torque values.

NOTE ON ISOLATION TESTING- ANY ISOLATION TESTING SHOULD BE COMPLETED PRIOR TO HYDRO TESTING IN ORDER TO PREVENT MEDIA IN LINE FROM CAUSING FALSE READINGS. IT IS SUGGESTED THAT ISOLATION BE CHECKED WITH THE USE OF AN RF METER AS PER NACE SP0288-2007 STANDARD PRACTICE.

IT SHOULD BE NOTED THAT HUMIDITY AND OTHER ENVIRONMENTAL EFFECTS CAN CAUSE FALSE ISOLATION READINGS.

For additional assistance please contact our engineering office-at- GPT.Engineering@gptindustries.com

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FORM F950 REV B

FOR METRIC TORQUE VALUES-  
divide ft-lb value by 0.73756  $Nm = \frac{ft-lb}{0.73756}$



# GPT ISOLATION GASKET INSTALLATION INSTRUCTIONS

**1.** SURFACE FINISH 3.2-6.3 R<sub>a</sub> (125-250 micro inch)

**2.** 10-12mm

**3.** APPLY Piko-Lube® DO NOT USE METALLIC BASED LUBRICANTS

**NOTE- ALWAYS USE NEW BOLTS**

**4.**

INSTALL SLEEVES AND WASHERS ON BOTTOM HALF OF FLANGE ASSEMBLY FOR EASY ALIGNMENT OF TYPE-F GASKETS

**5.**

**CAUTION**  
DO NOT DAMAGE SEAL

**SUGGESTION!**

FOR EVOLUTION AND VCFS GASKETS- USE THE CARDBOARD INCLUDED IN THE PACKAGING DURING INSTALLATION TO HELP PROTECT THE SEALS AND COATINGS FROM DAMAGE. (ADDITIONAL FLANGE SEPARATION MAY BE REQUIRED)

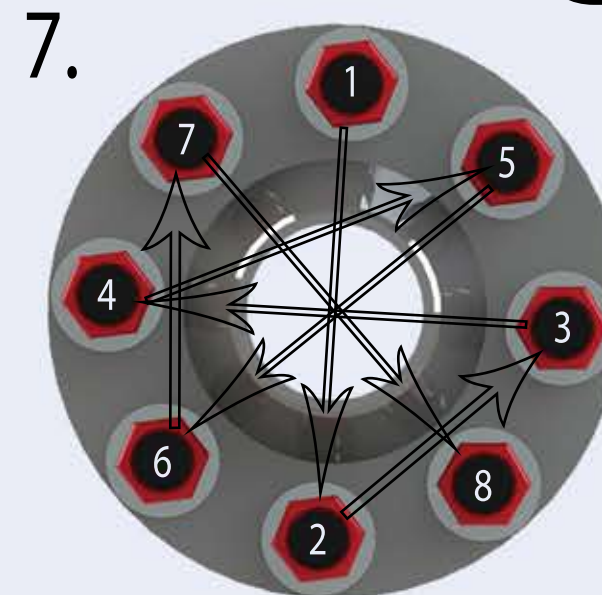
**6.**

NOTE- LOCATE HANDLE BETWEEN 2 BOLT HOLES BEFORE TIGHTENING BOLTS

INSTALL REMAINING BOLTS WITH WASHERS AND SLEEVES

ALWAYS USE A TORQUE WRENCH OR APPROPRIATE TENSIONING EQUIPMENT

NEVER USE IMPACT DRIVERS OR HAMMER WRENCHES! THIS CAN CAUSE DAMAGE TO THE WASHERS



**TORQUE IN LEGACY STAR PATTERN**

1. SNUG EACH BOLT TO 10-20 [ft-lb]
2. TIGHTEN TO 30% OF TARGET TORQUE
3. TIGHTEN TO 70% OF TARGET TORQUE
4. TIGHTEN TO 100% OF TARGET TORQUE
5. FINAL TORQUE TO 100% IN CIRCULAR PATTERN