

API Standard 607 Fourth Edition
With Exxon-modifications
Fire Test Report

Performed for

SGL Carbon Group
www.sglcarbon.de



Sigraflex Universal Pro with Inner Eyelet
6 inch Class 300 Gaskets
Project Number: 20557
July 2005



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY

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API 607 4th Edition Fire Test Data

Customer: SGL Carbon Group	Date: 7/14/2005
Project Number: PN20557	
Specification: API 607 4th Edition	
Product Code: Sigraflex Universal Pro with Inner Eyelet	
Flange Mfgr: Weldbend	
Nut +Bolt Mfgr: Alloy & Stainless Fasteners VA	
Comments: New bolts, nuts and flanges	
YRT Technician: Matthew J. Wasielewski, P.E.	

Bolt Torques (ft-lbs)

Bolt Location	At Start of Test	At End of Test
Upstream #1	200	160
Upstream #2	200	180
Upstream #3	200	140
Upstream #4	200	160
Downstream #1	200	160
Downstream #2	200	160
Downstream #3	200	180
Downstream #4	200	140

Fire and Cooldown Data:

Start Time:	10:33 AM	(EST)
Average Test Pressure:	30.9	psig
Combined Leak Rate of Both Gaskets:	0	ml/min
Allowable Leakage:	150	ml/min
Is Leakage Below Allowable?:	YES	

Post Burn Leakage Test

Start Time:	11:13 AM	(EST)
Average Test Pressure:	29.9	psig
Leak Rate Side A:	0	ml/min
Leak Rate Side B:	0	ml/min
Combined Leak Rate of Both Gaskets:	0	ml/min
Allowable Leakage:	150	ml/min
Is Leakage Below Allowable?:	YES	

Does Gasket Pass API 607 Leakage Requirements?: **YES**

Witnesses



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Exxon Additional Requirements to API 607 4th Edition Fire Test

Customer: SGL Carbon Group	Date: 7/14/2005
Project Number: PN20557	
Specification: Exxon additional requirements to API 607 4th Edition	
Product Code: Sigraflex Universal Pro with Inner Eyelet	
Gasket Thickness: 0.076 inches	
Flange Mfgr: Weldbend	
Nut +Bolt Mfgr: Alloy & Stainless Fasteners/Shih Hsang	
Comments:	
YRT Technician: Matthew J. Wasielewski, P.E.	

Bolt Torques (ft-lbs)

Bolt Location	At Start of Test	Before Adjustments	At Test Completion
Upstream #1	200	40	200
Upstream #2	200	40	200
Upstream #3	200	55	200
Upstream #4	200	50	200
Downstream #1	200	50	200
Downstream #2	200	50	200
Downstream #3	200	70	200
Downstream #4	200	25	200

Test Pressure (psig)	Side A Leak Rate (ml/min)	Side B Leak Rate (ml/min)	Total Leak Rate (ml/min)	Flange Bolt Retorques
30	0	0	0	
50	0	0	0	
100	0	0	0	
200	0	0	0	
300	0	0	0	
700	0	0	0	

Note: Zero leakage was encountered throughout the entire test up to 700 psig.

Witnesses _____

Matthew J. Wasielewski

