

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

Performed for

SGL CARBON Group
www.sgcarbon.de



SIGRAFLEX HOCHDRUCK Pro Dichtungen
6 inch Class 300 Gaskets

Project Number: 20637
April 2006



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY

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API 607 4th Edition Fire Test Data

Customer: SGL CARBON Group	Date: 4/13/2006
Project Number: PN20637	
Specification: API 607 4th Edition	
Product Code: SIGRAFLEX HOCHDRUCK PRO Dichtungen	
Flange Mfgr: Weldbend	Nut Mfgr: Shih Hsang
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	100
Upstream #2	200	90
Upstream #3	200	100
Upstream #4	200	120
Downstream #1	200	100
Downstream #2	200	100
Downstream #3	200	110
Downstream #4	200	120

Fire and Cooldown Data:

Start Time:	12:20 PM	(EST)
Average Test Pressure:	31.0	psig
Combined Leak Rate of Both Gaskets:	3	ml/min
Allowable Leakage:	150	ml/min
Is Leakage Below Allowable?:	Yes	

Post Burn Leakage Test

Start Time:	1:01 PM	(EST)
Average Test Pressure:	30.0	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
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Witnesses

Matthew J. Wasielewski

Yarmouth Research and Technology

Exxon Additional Requirements to API 607 4th Edition Fire Test

Customer: SGL CARBON Group	Date: 4/13/2006
Project Number: PN20637	
Specification: Exxon additional requirements to API 607 4th Edition	
Product Code: SIGRAFLEX HOCHDRUCK PRO Dichtungen	
Gasket Thickness: 0.085 inches	
Flange Mfgr: Weldbend	Nut Mfgr: Shih Hsang
Bolt Mfgr: Alloy & Stainless Fasteners VA	
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	n/a	100
Upstream #2	200	n/a	90
Upstream #3	200	n/a	100
Upstream #4	200	n/a	120
Downstream #1	200	n/a	100
Downstream #2	200	n/a	100
Downstream #3	200	n/a	110
Downstream #4	200	n/a	120

Post Burn Leakage Tests

Maximum allowable combined leakage: 150 ml/min

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	0.0	0.0	
50	0.0	0.0	0.0	
100	0.0	0.0	0.0	
200	0.0	0.0	0.0	
300	0.0	0.0	0.0	
700	0.0	0.1	0.1	

Witnesses

