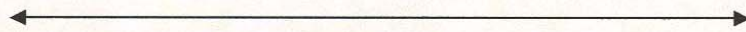


**API 607 Rev. 4 Fire Test**  
**with Exxon Modifications**  
**Test Report**

*Performed for*

**SGL Technic Inc.**  
**Polycarbon Division**



**Sigraflex MF**  
**6 inch Class 300 Gaskets**  
Project Number: 20292  
January 2003



*Performed by*

**YARMOUTH RESEARCH AND TECHNOLOGY**

92 East Elm Street  
Yarmouth, ME 04096 USA  
(207) 829-5359  
[yrtlab@maine.rr.com](mailto:yrtlab@maine.rr.com)  
[www.yarmouthresearch.com](http://www.yarmouthresearch.com)



# Yarmouth Research and Technology

## API 607 4th Edition Fire Test Data

<b>Customer:</b> SGL Technic Inc. Polycarbon Div.	<b>Date:</b> 1/28/2003
<b>Project Number:</b> PN20292	
<b>Specification:</b> API 607 4th Edition with Exxon modifications	
<b>Product Code:</b> Sigraflex MF	
<b>Gasket Thickness:</b> 0.063	inches
<b>Flange Mfgr:</b> Weldbend	<b>Nut Mfgr:</b> Shih Hsang
<b>Bolt Mfgr:</b> Alloy & Stainless Fasteners VA	
<b>Comments:</b> witnessed by Steve Boss of SGL Technic	
<b>YRT Technician:</b> Matthew J. Wasielewski, P.E.	

### Bolt Torques (ft-lbs)

Bolt Location	At Start of Test	Before Adjustment	At Test Completion
Upstream #1	200	80	200
Upstream #2	200	60	200
Upstream #3	200	55	200
Upstream #4	200	60	200
Downstream #1	200	80	200
Downstream #2	200	80	200
Downstream #3	200	60	200
Downstream #4	200	70	200

### Fire and Cooldown Data:

Start Time:	10:56 AM	(EST)
Average Test Pressure:	31.5	psig
Combined Leak Rate of Both Gaskets:	0.1	ml/min
Allowable Leakage:	150	ml/min
Is Leakage Below Allowable?:	<b>YES</b>	

### Post Burn Leakage Tests - Max. Allowable 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	0.8	1.6	2.4	
50	1.6	4.8	6.4	
100	3	200.0	203.0	Yes, Side B
200	48	0.0	48.0	
300	590	0.0	590.0	Yes, Side A
700	7.4	0.2	7.6	

Does Gasket Pass API 607 (30 psig) Leakage Requirements?: **YES**

Witnesses

Matthew J. Wasielewski

