

# **Fire Test Report**

**ANSI/API Standard 607, Fifth Edition, June 2005**

**ISO 10497-5:2004**

*Performed for*

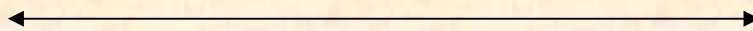
**Inline Industries, Inc.**

[www.ballvalve.com](http://www.ballvalve.com)



2 inch Class 150  
Carbon Steel Flanged Ball Valve  
Code: 109S

Project Number: 20932  
July 2009



*Performed by*

**YARMOUTH RESEARCH AND TECHNOLOGY**

434 Walnut Hill Road  
North Yarmouth, ME 04097 USA  
(207) 829-5359

[info@yarmouthresearch.com](mailto:info@yarmouthresearch.com)

[www.yarmouthresearch.com](http://www.yarmouthresearch.com)

# Yarmouth Research and Technology

**Customer:** Inline Industries, Inc.

**Date:** 7/7/2009

**Specification:** ANSI/API Standard 607, Fifth Edition, June 2005

ISO 10497-5:2004, "Fire Test for Soft-seated Quarter-turn Valves"

**Product Description:** 2 inch Class 150 Unibody Ball Valve

**Project Number:** PN20932

**Comments:** Product Code: 109S

Upsoon Industrial Co. Ltd

**Yarmouth Engineer:** Matthew J. Wasielewski, P.E.

**Equipment Confirmed to be in Calibration to NIST Standards:** Yes

***Burn and Cool Down Test***

Burn Start Time:	<b>14:26:00</b>	
Average Pressure During Burn:	<b>31.3</b>	psig
Seat Leak Rate During Burn:	<b>4.0</b>	ml/min
Allowable Seat Leak Rate:	<b>200</b>	ml/min
External Leak Rate During Burn/Cool Down:	<b>6.3</b>	ml/min
Allowable External Leak Rate:	<b>50</b>	ml/min
Amount of Time of Avg. Cal. Blocks > 650 deg. C:	<b>22.5</b>	minutes
Were Test Conditions Within Compliance?	<b>Yes</b>	
Were the Valve Leakages Below the Allowables?	<b>Yes</b>	

***Post-burn Test***

Average Pressure During Test:	<b>30</b>	psig
Seat Leak Rate:	<b>18</b>	ml/min
Allowable Seat Leak Rate:	<b>80</b>	ml/min
Was the Leakage Below the Allowable?	<b>Yes</b>	

***Operational Test***

Did Valve Unseat and Open Fully?:	<b>Yes</b>	
Average Pressure During Test:	<b>218</b>	psig
External Leak Rate After Operating:	<b>1</b>	ml/min
Allowable External Leak Rate:	<b>50</b>	ml/min
Was the Leakage Below the Allowable?	<b>Yes</b>	

Valve Pass or Fail the Test Standard?	<b>PASS</b>
---------------------------------------	-------------

**Witnesses**

*Matthew J. Wasielewski*

