



Valve Fire Testing Report

Ball Valve

Per API Specification 607 7th edition, ISO 10497 June 2016

Size- 6" Cl. 150
Valve Model- _____
FT Test Number- FT-101
Prepared for- Watson Valve
4521 Stefani
Houston, Tx 77041

Precision Testing LLC
1010 QCP Park Drive
Broussard, LA 70518
(337) 321-6483
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Fire Test Certification

API 607 7th Edition, ISO 10497

Valve Manufacturer: Watson Valve
Test Number: FT-101 Test Date: 6/09/2017
Valve Size: 6" Valve Model: _____
Valve Part No.: WV-1335
Pressure Class: 150
Test Pressure: 215 psi
Body Cavity Set Relief Pressure: N/A

Times	
Test Start Time	<u>7:35:54</u>
1400°F Flame Environment Thermocouple Time	<u>7:36:24</u>
1200°F Calorimeter Times	
Body	<u>7:49:44</u>
Bonnet	<u>7:48:09</u>
Body(Back)	<u>N/A</u>
Flame Thermocouple Times	
Body(1100°F-5min.)	<u>7:36:22</u>
Bonnet(1200°F-15min.)	<u>7:36:24</u>
Finishing Times	
Test End Time	<u>8:06:24</u>
Cool Down Start Time	<u>8:08:00</u>
Cool Down End Time(212°F)	<u>8:18:00</u>

Precision Testing LLC
Product Testing and Verification Services
(337) 321-6483

This Valve PASSES the criteria set forth in API 607 7th Ed. ISO 10497 June 2016

Valve Sizes and Pressures Qualified:

Sizes: 6" thru 12"

Pressure/Classes : ANSI Cl. 150 and 300

Comments:

This Design is a:

Metal Seated, Floating, Ball Valve.

See Detail Drawing for materials and construction.

Through Leakage During burn (@ Test Pressure): 200 ml. (86,400 ml @ 2400 ml/min allowed)
External Leakage (Closed Position) During burn and Cool down: 0 ml. (24,900ml @ 600 ml/min allowed)
Through Leakage after cooldown (Low Test Pressure, 30 psi for 5 min): 0 ml. (1,200 ml @ 240 ml/min allowed)

Operational Test, Test Pressure: 215 PSI
Valve operated to open position

External Leakage (Open Position) over 5 min: 0 ml. (750 ml @ 150 ml/min allowed)

Other Comments:

Valve Tested: 6-150, Cavity Volume: N/A ml., Gear Operator details: DT-21 Mfg.: Dynatorque Model Number: DT-21 Type: Worm, Mechanical Advantage: 60:1, symmetry and direction: Symmetrical See DWG for all materials and construction. *Valve has passed all required pressure tests prior to fire test required by the Valve standard used.*

Company Name: Watson Valve
Street: 4521 Stefani
City, State: Houston, TX 77041

This Valve PASSES the criteria set forth in API 607 7th Ed. And ISO 10497 June 2016.
Performed By: Bob Maki Date: 6/09/2017
Precision Testing LLC

Fire Test Certification

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Test Number: FT-100 Test Date: 6/09/2017

Digital Pressure Transducer Scale:

0-1000 psi for Full Chart Scale Test Pressure

N/A psi for Full Chart Scale Cavity Pressure

Verified with Pressure Gauge

Temperature Plot:

Type K thermocouples - New

All temperatures recorded in degrees Fahrenheit

Digital Data Acquisition Device Calibrated yearly at minimum

See Formula sheet for leakage Calculations