

**Fugitive Emissions Test Report
API Standard 641, First Edition, October 2016**

*All units of measure shall be specified

API Std. 641 Fugitive Emissions Testing Report Number: ESP118-1

Valve Information

Manufacturer: ValvTechnologies
 Manufacturing Facility (Location): 5904 Bingle Rd. Houston, Texas 77092
 Valve Size and Class: 1-1/2" ANSI 1500
 Valve Model Number: V8C1-LL-XX-B00D-002CL-TV1
 API/ASME Design Standard(s): ASME B16.34
 Valve Type: Ball Valve

Valve Stem Seal Information

Number of Rings:	5 Rings	Stem Seal Description:	Chesterton 1622
OD:	1.190" / 1.188"	Manufacturer:	Chesterton
ID:	1.002" / 1.000"	Model/Type:	1622
Stack Height:	N/A	Minimum Sealing stress:	4,500 psi
Stem Seal Chamber Depth:	0.540" / 0.530"	Other Stem Seal Materials:	N/A

Valve Materials

Body: A105
 Stem: A638 Gr. 660 (A286)
 Body Seal: A564 Type 630
 Condition H1150D / PT24

Valve Selection (Check One)

Manufacturer Purchaser
 Distributor Other: _____

Date Selected: 02-11-2019

Personnel

Qualification Facility: ValvTechnologies
 Test Technician: Floyd Cruz
 Third Party (if applicable): *Adoola Anupeta*
 Start Date: 04-10-2019 End Date: 04-15-2019

Manufacturer Published Torque Values

Running Torque: 1,250 in-lb
 Closing Torque: 1,250 in-lb
 Packing Torque: 48-60 in-lb

Pretest Preparations and Adjustments (see API 641 ed. 1 October 2016, Section 6)

See Test Form A-TF 202-203

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API 641 - TESTING DATA

Test Segment	Cycle Count	Temperature @ TC-1 (Fahrenheit)	Temperature @ TC-2 (Fahrenheit)	Static Leak Measurement	Dynamic Leak Measurement	Pressure Boundary Leak Measurement (specify location)
Pa= <u>600 psi</u>	0	77	77	10 PPM	N/A	0 PPM
Ta= <u>Ambient</u>	100	79	80	5 PPM	5 PPM	N/A
Pe= <u>600 psi</u>	101	480	506	5 PPM	N/A	N/A
Te= <u>500 F</u>	200	476	507	20 PPM	20 PPM	N/A
Pa= <u>600 psi</u>	201	120	120	15 PPM	N/A	N/A
Ta= <u>Ambient</u>	300	116	116	5 PPM	15 PPM	N/A
Pe= <u>600 psi</u>	301	475	502	0 PPM	N/A	N/A
Te= <u>500 F</u>	400	483	511	5 PPM	5 PPM	N/A
Pa= <u>600 psi</u>	401	108	108	40 PPM	N/A	N/A
Ta= <u>Ambient</u>	500	101	101	0 PPM	15 PPM	N/A
Pe= <u>600 psi</u>	501	485	522	65 PPM	N/A	N/A
Te= <u>500 F</u>	600	490	521	10 PPM	10 PPM	N/A
Pa= <u>600 psi</u>	601	71	71	35 PPM	N/A	N/A
Ta= <u>Ambient</u>	610	71	71	35 PPM	35 PPM	0 PPM

Torque Measurements	
Running Torque (During First Mechanical Cycle)	16.6 psi 548 in-lb
Running Torque (During Last Mechanical Cycle)	27.9 psi 921 in-lb

Additional Data	
Average Cycle Time:	0.29 seconds
Packing Gland Torque: Before Disassembly	26 - 30 in-lb

Qualification Facility Representative:	
Company	ValvTechnologies
Test Technician:	Floyd Cruz
Signature:	<i>[Signature]</i>
Date:	4-15-19

Final Test Results
<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

Third-Party Witness (if applicable)	
Company	Qualispect, Inc.
3rd Party Name:	Adeola Owopetu
Signature:	<i>[Signature]</i>
Date:	04/15/2019

Notes

Witness Review
 Date: 04/15/2019
 Signature: *[Signature]*