

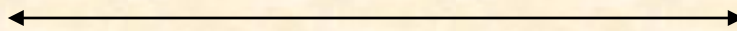
API Standard 622 Test Report

“Type Testing of Process Valve
Packing for Fugitive Emissions”
Second Edition, 2011

Performed for

Flexitallic Ltd.

Scandinavia Mill, Hunsworth Lane
Cleckheaton, UK



Flexitallic 308 Style Packing

Project Number: 216102
Test Start Date: May 4, 2016



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY, LLC

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Yarmouth Research and Technology, LLC

API 622 PROJECT SUMMARY

Customer: Flexitallic Ltd.

Company Address: Scandinavia Mill, Hunsworth Lane, Cleckheaton, UK

Project Number: 216102

Start Date: 4-May-16

Packing Information

Packing Description: Flexitallic 308

Originally tested as Burgmann BPG 6559 style packing

Source of Sample: Customer

Packing Cross Section: 1/4 inch nominal

Packing Free Height: 1.255 inches - nominal

Test Conditions

Specification: API 622, 2nd Edition, 2011

Test Media: 99% Methane **Test Pressure:** 600 psig

Recommended Packing Nut Torque: 56 ft-lb

Maximum Allowable Leakage: 100 PPMv

Cycling Rate: 60 seconds per cycle

Dimensions (inches)

Stem Diameter: 1.000 **Bore Diameter:** 1.500

Follower Height: 1.054 **Bore Depth:** 1.328

Gland Ht at Start: 0.556 **% Compression:** 34%

Gland Ht at End: 0.530 **% Compression:** 36%

Gland Bolt Diameter: 5/8

Results

Average Test Pressure: 600 psig

Number of Mechanical Cycles Completed: 1510

Number of Thermal Cycles Completed: 5

Number of Packing Adjustments Required: 0

Cycle Number(s) of Packing Adjustments: N/A

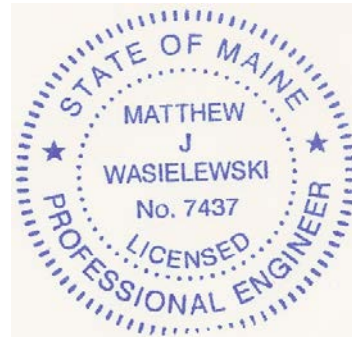
Average Leakage Throughout Test: 1 PPMv

Maximum Leakage Throughout Test: 7 PPMv

Certified By



Matthew J Wasielewski, PE
President and Manager
Yarmouth Research and Technology, LLC



Yarmouth Research and Technology, LLC

Customer: Flexitallic Ltd.

Project #: 216102

Start Date: 4-May-16

Packing Description: Flexitallic 308

Cycle Number	Inside Temp (F)	Bonnet Temp - (F)	Pressure (psig)	Stem Seal Leakage (PPMv)		Packing Retorque
				Avg.	Max.	See Note
0	69	68	600	1	1	
50	73	80	600	0	1	
100	74	78	600	2	3	
150	75	77	600	1	1	
151	501	502	600	4	5	
200	503	504	600	3	4	
250	501	505	600	4	4	
300	501	505	600	3	4	
301	77	76	600	1	1	
350	80	84	600	1	1	
400	81	87	600	1	1	
450	83	89	600	1	1	
451	499	505	600	2	5	
500	498	505	600	2	3	
550	503	504	600	1	3	
600	504	500	600	1	2	
601	85	81	600	1	2	
650	85	89	600	0	1	
700	86	91	600	0	1	
750	87	92	600	1	2	
751	504	505	600	2	3	
800	499	505	600	1	3	
850	495	500	600	2	2	
900	502	505	600	5	7	
901	68	68	600	1	1	
950	72	77	600	1	1	
1000	75	78	600	0	1	
1050	79	86	600	1	1	
1051	498	501	600	1	1	
1100	502	505	600	1	1	
1150	503	505	600	0	1	
1200	499	505	600	1	1	
1201	79	77	600	1	1	
1250	81	85	600	1	1	
1300	84	91	600	1	1	

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1350	83	88	600	1	1	
1351	500	505	600	1	1	
1400	500	505	600	1	3	
1450	502	505	600	1	2	
1500	502	504	600	2	2	
1500	80	78	600	1	2	
1510	74	75	600	1	1	
Averages ->			600	1	2	
Maximums ->			600	5	7	

Packing Retorque Notes:

<i>Before Adjustment</i>		<i>After Adjustment</i>		
<i>Cycle Number</i>	<i>Nut Torque (ft-lb)</i>	<i>Nut Torque (ft-lb)</i>	<i>Number of Flats</i>	<i>Gland Height (in)</i>

Nut Torque at End of Test: (ft-lb)	35	<i>Top</i>	40	<i>Bottom</i>
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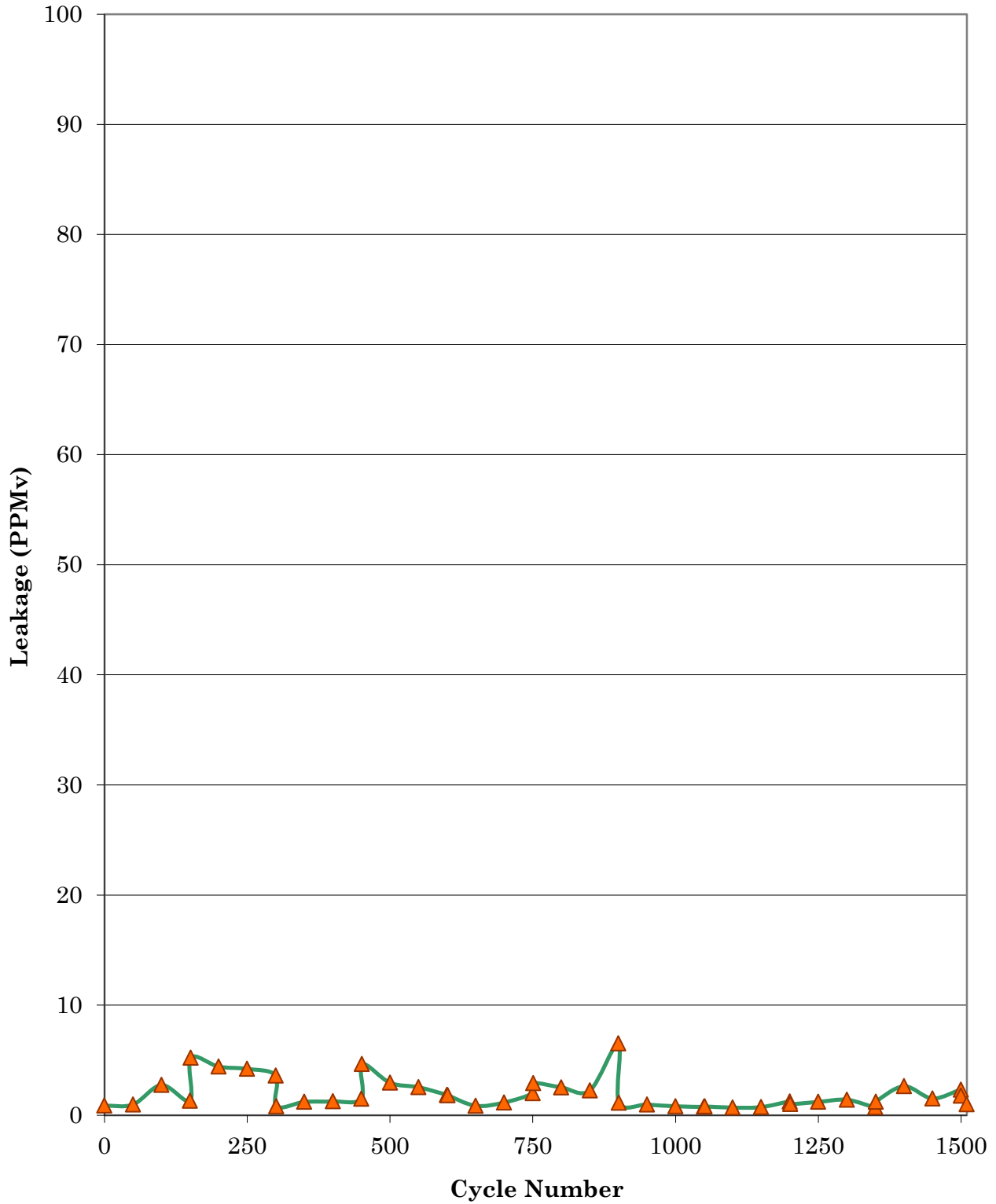
Test Notes:

The packing completed 5 thermal cycles and 1510 mechanical cycles with no packing adjustments and therefore passed the test requirements.

Test Results: The average and maximum leakage results shown below were calculated from 60 readings measured during a minute duration.
See data sheets for more detailed information.

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Static Leakage Chart
Maximum Reading



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Pre-Test Packing Sample



Test Setup

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Post-Test Valve Stem



Post-Test Packing Sample

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Valve Description: Flexitallic 308 Style Packing

Cycle Number: 0

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
9:21:05 AM	600	68	69	0
9:21:06 AM	600	68	69	1
9:21:07 AM	600	68	69	0
9:21:08 AM	600	68	69	1
9:21:09 AM	600	68	69	1
9:21:10 AM	600	68	69	0
9:21:11 AM	600	68	69	0
9:21:12 AM	600	68	69	0
9:21:13 AM	600	68	69	1
9:21:14 AM	600	68	69	0
9:21:15 AM	600	68	69	0
9:21:16 AM	600	69	69	1
9:21:17 AM	600	68	69	1
9:21:18 AM	600	68	69	0
9:21:19 AM	600	68	69	1
9:21:20 AM	600	68	69	0
9:21:21 AM	600	69	69	1
9:21:22 AM	600	68	69	1
9:21:23 AM	600	68	69	1
9:21:24 AM	600	68	69	0
9:21:25 AM	600	68	69	0
9:21:26 AM	600	69	69	0
9:21:27 AM	600	68	69	0
9:21:28 AM	600	68	69	0
9:21:29 AM	600	68	69	0
9:21:30 AM	600	68	69	1
9:21:31 AM	600	68	69	0
9:21:32 AM	600	68	69	1
9:21:33 AM	600	68	69	1
9:21:34 AM	600	68	69	0
9:21:35 AM	600	68	69	1
9:21:36 AM	600	68	69	1
9:21:37 AM	600	68	69	0
9:21:38 AM	600	68	69	1
9:21:39 AM	600	68	69	0
9:21:40 AM	600	68	69	0
9:21:41 AM	600	68	69	0
9:21:42 AM	600	68	69	0
9:21:43 AM	600	68	69	1
9:21:44 AM	600	68	69	1
9:21:45 AM	600	68	69	1
9:21:46 AM	600	68	69	1
9:21:47 AM	600	68	69	1
9:21:48 AM	600	68	69	0
9:21:49 AM	600	68	69	1
9:21:50 AM	600	68	69	0
9:21:51 AM	600	68	69	1
9:21:52 AM	600	68	69	1
9:21:53 AM	600	68	69	0
9:21:54 AM	600	68	69	1
9:21:55 AM	600	68	69	1
9:21:56 AM	600	68	69	1
9:21:57 AM	600	68	69	0
9:21:58 AM	600	68	69	1
9:21:59 AM	600	68	69	1
9:22:00 AM	600	68	69	1
9:22:00 AM	600	68	69	1
9:22:01 AM	600	68	69	0
9:22:02 AM	600	68	69	1
9:22:03 AM	600	68	69	0
Averages ->	600	68	69	1
			Maximum ->	1

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Valve Description: Flexitallic 308 Style Packing

Cycle Number: 50

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
10:13:03 AM	600	80	73	1
10:13:04 AM	600	80	73	0
10:13:05 AM	600	80	73	1
10:13:06 AM	600	80	73	0
10:13:07 AM	600	80	73	1
10:13:08 AM	600	80	73	1
10:13:09 AM	600	80	73	1
10:13:10 AM	600	80	73	1
10:13:11 AM	600	80	73	0
10:13:12 AM	600	80	73	1
10:13:13 AM	600	80	73	0
10:13:14 AM	600	80	73	1
10:13:15 AM	600	80	73	1
10:13:16 AM	600	80	73	0
10:13:17 AM	600	80	73	0
10:13:18 AM	600	80	73	1
10:13:19 AM	600	80	73	0
10:13:20 AM	600	80	73	1
10:13:21 AM	600	80	73	0
10:13:22 AM	600	80	73	0
10:13:23 AM	600	80	73	0
10:13:24 AM	600	80	73	1
10:13:25 AM	600	80	74	0
10:13:26 AM	600	80	73	0
10:13:27 AM	600	80	73	0
10:13:28 AM	600	80	73	1
10:13:29 AM	600	80	73	1
10:13:30 AM	600	80	73	1
10:13:31 AM	600	80	73	1
10:13:32 AM	600	80	73	0
10:13:33 AM	600	80	73	0
10:13:34 AM	600	80	73	1
10:13:35 AM	600	80	73	0
10:13:36 AM	600	80	73	1
10:13:37 AM	600	80	73	1
10:13:38 AM	600	80	73	1
10:13:39 AM	600	80	73	1
10:13:40 AM	600	80	73	0
10:13:41 AM	600	80	73	0
10:13:42 AM	600	80	73	0
10:13:43 AM	600	80	73	0
10:13:44 AM	600	80	73	0
10:13:45 AM	600	80	73	0
10:13:46 AM	600	80	73	0
10:13:47 AM	600	80	73	1
10:13:48 AM	600	80	73	0
10:13:49 AM	600	80	73	0
10:13:50 AM	600	80	73	0
10:13:51 AM	600	80	73	1
10:13:51 AM	600	80	73	0
10:13:52 AM	600	80	73	0
10:13:53 AM	600	80	73	0
10:13:54 AM	600	80	73	0
10:13:55 AM	600	80	73	0
10:13:56 AM	600	79	73	0
10:13:57 AM	600	80	73	1
10:13:58 AM	600	80	73	0
10:13:59 AM	600	80	73	1
10:14:00 AM	600	80	73	1
10:14:01 AM	600	80	73	0
Averages ->	600	80	73	0
			Maximum ->	1

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Valve Description: Flexitallic 308 Style Packing

Cycle Number: 100

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
11:33:46 AM	600	78	74	2
11:33:47 AM	600	78	74	2
11:33:48 AM	600	78	74	2
11:33:49 AM	600	78	74	2
11:33:50 AM	600	78	74	2
11:33:51 AM	600	78	74	2
11:33:52 AM	600	78	74	2
11:33:53 AM	600	78	74	3
11:33:54 AM	600	78	74	2
11:33:55 AM	600	78	74	1
11:33:56 AM	600	78	74	2
11:33:57 AM	600	78	74	2
11:33:57 AM	600	78	74	2
11:33:58 AM	600	78	74	2
11:33:59 AM	600	78	74	2
11:34:00 AM	600	77	74	2
11:34:01 AM	600	78	74	1
11:34:02 AM	600	78	74	2
11:34:03 AM	600	78	74	2
11:34:04 AM	600	78	74	2
11:34:05 AM	600	77	74	2
11:34:06 AM	600	78	74	2
11:34:07 AM	600	78	74	2
11:34:08 AM	600	78	74	1
11:34:09 AM	600	78	74	2
11:34:10 AM	600	78	74	2
11:34:11 AM	600	78	74	2
11:34:12 AM	600	78	74	2
11:34:13 AM	600	78	74	2
11:34:14 AM	600	77	74	2
11:34:15 AM	600	78	74	1
11:34:16 AM	600	78	74	3
11:34:17 AM	600	78	74	2
11:34:18 AM	600	78	74	1
11:34:19 AM	600	77	74	2
11:34:20 AM	600	78	74	2
11:34:21 AM	600	78	74	2
11:34:22 AM	600	77	74	2
11:34:23 AM	600	78	74	2
11:34:24 AM	600	78	74	2
11:34:25 AM	600	78	74	2
11:34:26 AM	600	78	74	2
11:34:27 AM	600	78	74	3
11:34:28 AM	600	78	74	2
11:34:29 AM	600	78	74	2
11:34:30 AM	600	78	74	3
11:34:31 AM	600	78	74	3
11:34:32 AM	600	78	74	2
11:34:33 AM	600	78	73	2
11:34:34 AM	600	78	74	2
11:34:35 AM	600	78	74	2
11:34:36 AM	600	77	74	2
11:34:37 AM	600	78	74	2
11:34:38 AM	600	77	74	2
11:34:39 AM	600	78	74	1
11:34:40 AM	600	78	74	2
11:34:41 AM	600	78	74	2
11:34:42 AM	600	78	74	2
11:34:43 AM	600	77	74	1
11:34:44 AM	600	78	74	2
Averages ->	600	78	74	2
			Maximum ->	3

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Valve Description: Flexitallic 308 Style Packing

Cycle Number: 150

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
12:27:18 PM	600	77	75	1
12:27:19 PM	600	77	75	1
12:27:20 PM	600	77	75	1
12:27:21 PM	600	77	75	1
12:27:22 PM	600	77	75	1
12:27:23 PM	600	77	75	1
12:27:24 PM	600	77	75	1
12:27:25 PM	600	77	75	1
12:27:26 PM	600	77	75	1
12:27:27 PM	600	77	75	1
12:27:28 PM	600	77	75	1
12:27:29 PM	600	77	75	1
12:27:30 PM	600	77	75	1
12:27:31 PM	600	77	75	1
12:27:32 PM	600	77	75	1
12:27:33 PM	600	77	75	1
12:27:34 PM	600	77	75	1
12:27:35 PM	600	77	75	1
12:27:36 PM	600	77	75	1
12:27:36 PM	600	77	75	1
12:27:37 PM	600	77	75	1
12:27:38 PM	600	77	75	1
12:27:39 PM	600	77	75	1
12:27:40 PM	600	77	75	1
12:27:41 PM	600	77	75	1
12:27:42 PM	600	77	75	1
12:27:43 PM	600	77	75	1
12:27:44 PM	600	77	75	1
12:27:45 PM	600	77	75	1
12:27:46 PM	600	77	75	1
12:27:47 PM	600	77	75	1
12:27:48 PM	600	77	75	1
12:27:49 PM	600	77	75	1
12:27:50 PM	600	77	75	1
12:27:51 PM	600	77	75	1
12:27:52 PM	600	77	75	1
12:27:53 PM	600	77	75	1
12:27:54 PM	600	77	75	1
12:27:55 PM	600	77	75	1
12:27:56 PM	600	77	75	1
12:27:57 PM	600	77	75	1
12:27:58 PM	600	77	75	1
12:27:59 PM	600	77	75	1
12:28:00 PM	600	77	75	1
12:28:01 PM	600	77	75	1
12:28:02 PM	600	77	75	1
12:28:03 PM	600	77	75	1
12:28:04 PM	600	77	75	1
12:28:05 PM	600	77	75	1
12:28:06 PM	600	77	75	1
12:28:07 PM	600	77	75	1
12:28:08 PM	600	77	75	1
12:28:09 PM	600	77	75	1
12:28:10 PM	600	77	75	1
12:28:11 PM	600	77	75	1
12:28:12 PM	600	77	75	1
12:28:13 PM	600	77	75	1
12:28:14 PM	600	77	75	0
12:28:15 PM	600	77	75	1
12:28:16 PM	600	77	75	1
Averages ->	600	77	75	1
			Maximum ->	1

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Valve Description: Flexitallic 308 Style Packing

Cycle Number: 151

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
2:04:06 PM	600	500	500	4
2:04:07 PM	600	500	500	4
2:04:08 PM	600	501	500	4
2:04:08 PM	600	500	500	5
2:04:09 PM	600	500	500	4
2:04:10 PM	600	500	500	4
2:04:11 PM	600	501	500	4
2:04:12 PM	600	501	500	4
2:04:13 PM	600	501	500	4
2:04:14 PM	600	501	501	4
2:04:15 PM	600	501	501	3
2:04:16 PM	600	501	501	3
2:04:17 PM	600	501	501	3
2:04:18 PM	600	501	501	4
2:04:19 PM	600	501	501	5
2:04:20 PM	600	501	501	4
2:04:21 PM	600	501	501	5
2:04:22 PM	600	501	501	3
2:04:23 PM	600	501	501	4
2:04:24 PM	600	501	501	4
2:04:25 PM	600	501	501	3
2:04:26 PM	600	501	501	4
2:04:27 PM	600	501	501	5
2:04:28 PM	600	501	501	4
2:04:29 PM	600	501	501	4
2:04:30 PM	600	501	502	4
2:04:31 PM	600	501	501	4
2:04:32 PM	600	502	502	4
2:04:33 PM	600	502	502	4
2:04:34 PM	600	502	501	4
2:04:35 PM	600	502	502	4
2:04:36 PM	600	502	501	4
2:04:37 PM	600	502	501	4
2:04:38 PM	600	502	502	4
2:04:39 PM	600	502	502	4
2:04:40 PM	600	502	502	3
2:04:41 PM	600	502	502	5
2:04:42 PM	600	502	502	4
2:04:43 PM	600	502	502	5
2:04:44 PM	600	502	502	4
2:04:45 PM	600	502	502	3
2:04:46 PM	600	502	502	3
2:04:47 PM	600	502	502	4
2:04:48 PM	600	503	502	4
2:04:49 PM	600	503	502	4
2:04:50 PM	600	503	502	4
2:04:51 PM	600	503	502	4
2:04:52 PM	600	503	502	4
2:04:53 PM	600	503	502	4
2:04:54 PM	600	503	503	4
2:04:55 PM	600	503	502	4
2:04:56 PM	600	503	503	4
2:04:57 PM	600	503	503	4
2:04:58 PM	600	503	502	4
2:04:59 PM	600	503	503	4
2:05:00 PM	600	503	503	4
2:05:01 PM	600	503	503	4
2:05:02 PM	600	503	503	4
2:05:03 PM	600	503	503	4
2:05:04 PM	600	503	503	5
Averages ->	600	502	501	4
			Maximum ->	5

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Valve Description: Flexitallic 308 Style Packing

Cycle Number: 200

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
2:55:31 PM	600	504	502	3
2:55:32 PM	600	503	502	2
2:55:33 PM	600	503	502	3
2:55:33 PM	600	503	502	3
2:55:34 PM	600	503	502	2
2:55:35 PM	600	504	502	3
2:55:36 PM	600	504	502	3
2:55:37 PM	600	504	502	3
2:55:38 PM	600	504	502	3
2:55:39 PM	600	504	502	3
2:55:40 PM	600	504	502	3
2:55:41 PM	600	504	502	3
2:55:42 PM	600	504	502	2
2:55:43 PM	600	504	502	3
2:55:44 PM	600	504	502	3
2:55:45 PM	600	504	502	3
2:55:46 PM	600	504	503	3
2:55:47 PM	600	504	503	3
2:55:48 PM	600	504	503	2
2:55:49 PM	600	504	503	2
2:55:50 PM	600	504	502	3
2:55:51 PM	600	504	503	2
2:55:52 PM	600	504	503	3
2:55:53 PM	600	504	503	3
2:55:54 PM	600	504	503	3
2:55:55 PM	600	504	503	3
2:55:56 PM	600	504	503	3
2:55:57 PM	600	504	503	2
2:55:58 PM	600	504	503	3
2:55:59 PM	600	504	503	3
2:56:00 PM	600	504	503	2
2:56:01 PM	600	504	503	2
2:56:02 PM	600	504	503	3
2:56:03 PM	600	504	503	3
2:56:04 PM	600	504	503	3
2:56:05 PM	600	504	502	2
2:56:06 PM	600	504	503	3
2:56:07 PM	600	504	503	3
2:56:08 PM	600	504	503	3
2:56:09 PM	600	504	503	3
2:56:10 PM	600	504	503	3
2:56:11 PM	600	504	503	3
2:56:12 PM	600	505	503	2
2:56:13 PM	600	504	503	3
2:56:14 PM	600	505	503	3
2:56:15 PM	600	505	503	3
2:56:16 PM	600	505	503	3
2:56:17 PM	600	504	503	3
2:56:18 PM	600	505	503	3
2:56:19 PM	600	505	503	3
2:56:20 PM	600	504	503	4
2:56:21 PM	600	505	503	2
2:56:22 PM	600	505	503	4
2:56:23 PM	600	505	504	3
2:56:24 PM	600	505	503	4
2:56:25 PM	600	505	503	3
2:56:26 PM	600	505	503	4
2:56:27 PM	600	505	503	3
2:56:28 PM	600	505	503	3
2:56:29 PM	600	505	503	4
Averages ->	600	504	503	3
			Maximum ->	4

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 250

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
3:51:12 PM	600	504	501	4
3:51:12 PM	600	504	501	3
3:51:13 PM	600	505	501	3
3:51:14 PM	600	504	501	4
3:51:15 PM	600	505	501	4
3:51:16 PM	600	505	501	4
3:51:17 PM	600	505	501	4
3:51:18 PM	600	505	501	4
3:51:19 PM	600	505	501	4
3:51:20 PM	600	505	502	4
3:51:21 PM	600	505	501	3
3:51:22 PM	600	505	501	4
3:51:23 PM	600	505	501	4
3:51:24 PM	600	505	502	4
3:51:25 PM	600	505	501	4
3:51:26 PM	600	505	501	4
3:51:27 PM	600	505	501	3
3:51:28 PM	600	505	501	4
3:51:29 PM	600	505	501	3
3:51:30 PM	600	505	501	4
3:51:31 PM	600	505	501	4
3:51:32 PM	600	506	501	3
3:51:33 PM	600	506	501	4
3:51:34 PM	600	505	502	4
3:51:35 PM	600	505	502	4
3:51:36 PM	600	505	501	3
3:51:37 PM	600	505	501	3
3:51:38 PM	600	505	501	4
3:51:39 PM	600	505	502	4
3:51:40 PM	600	505	501	3
3:51:41 PM	600	505	502	4
3:51:42 PM	600	505	502	3
3:51:43 PM	600	505	502	4
3:51:44 PM	600	504	502	3
3:51:45 PM	600	505	501	4
3:51:46 PM	600	505	501	4
3:51:47 PM	600	504	502	3
3:51:48 PM	600	504	502	4
3:51:49 PM	600	504	502	4
3:51:50 PM	600	504	501	3
3:51:51 PM	600	504	502	4
3:51:52 PM	600	504	501	4
3:51:53 PM	600	504	501	4
3:51:54 PM	600	504	501	4
3:51:55 PM	600	504	501	4
3:51:56 PM	600	504	501	3
3:51:57 PM	600	504	502	4
3:51:58 PM	600	504	502	4
3:51:59 PM	600	504	502	4
3:52:00 PM	600	504	501	3
3:52:01 PM	600	503	501	3
3:52:02 PM	600	504	501	3
3:52:03 PM	600	504	501	4
3:52:04 PM	600	504	502	4
3:52:05 PM	600	504	501	3
3:52:06 PM	600	504	502	4
3:52:07 PM	600	504	502	3
3:52:08 PM	600	504	502	3
3:52:09 PM	600	504	502	3
3:52:10 PM	600	505	501	3
Averages ->	600	505	501	4
			Maximum ->	4

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 300

Date 5/4/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
4:44:03 PM	600	505	500	3
4:44:04 PM	600	505	500	3
4:44:05 PM	600	505	501	3
4:44:06 PM	600	505	501	3
4:44:07 PM	600	505	501	3
4:44:08 PM	600	505	501	4
4:44:09 PM	600	505	501	3
4:44:10 PM	600	505	500	3
4:44:11 PM	600	506	501	3
4:44:12 PM	600	505	500	3
4:44:13 PM	600	506	501	3
4:44:14 PM	600	505	500	3
4:44:15 PM	600	506	500	3
4:44:16 PM	600	505	501	2
4:44:17 PM	600	505	500	3
4:44:18 PM	600	506	500	3
4:44:19 PM	600	506	500	3
4:44:20 PM	600	505	501	3
4:44:21 PM	600	505	500	2
4:44:22 PM	600	505	501	3
4:44:23 PM	600	505	501	3
4:44:24 PM	600	505	501	3
4:44:25 PM	600	505	501	3
4:44:26 PM	600	505	501	3
4:44:27 PM	600	505	500	3
4:44:28 PM	600	505	501	2
4:44:29 PM	600	505	501	3
4:44:30 PM	600	505	501	3
4:44:31 PM	600	504	501	3
4:44:32 PM	600	504	501	3
4:44:33 PM	600	504	501	2
4:44:34 PM	600	504	501	3
4:44:35 PM	600	504	501	3
4:44:36 PM	600	504	501	3
4:44:37 PM	600	504	501	3
4:44:38 PM	600	504	500	3
4:44:39 PM	600	504	501	3
4:44:40 PM	600	503	501	3
4:44:41 PM	600	504	501	3
4:44:42 PM	600	504	501	3
4:44:43 PM	600	504	500	3
4:44:44 PM	600	504	500	3
4:44:45 PM	600	504	501	2
4:44:46 PM	600	504	501	3
4:44:47 PM	600	504	501	3
4:44:48 PM	600	504	501	3
4:44:48 PM	600	504	500	3
4:44:49 PM	600	504	501	3
4:44:50 PM	600	504	501	2
4:44:51 PM	600	504	501	3
4:44:52 PM	600	504	501	2
4:44:53 PM	600	504	501	4
4:44:54 PM	600	504	501	3
4:44:55 PM	600	504	501	3
4:44:56 PM	600	505	501	3
4:44:57 PM	600	504	501	3
4:44:58 PM	600	505	501	3
4:44:59 PM	600	505	500	3
4:45:00 PM	600	505	500	3
4:45:01 PM	600	505	501	3
Averages ->	600	505	501	3
			Maximum ->	4

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 301

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
8:22:21 AM	600	76	77	1
8:22:22 AM	600	76	77	0
8:22:23 AM	600	76	77	0
8:22:24 AM	600	76	77	1
8:22:25 AM	600	76	77	1
8:22:26 AM	600	76	78	0
8:22:27 AM	600	76	77	0
8:22:28 AM	600	76	77	1
8:22:29 AM	600	76	77	0
8:22:30 AM	600	76	78	1
8:22:31 AM	600	76	77	1
8:22:32 AM	600	76	77	1
8:22:33 AM	600	76	77	1
8:22:34 AM	600	76	77	1
8:22:35 AM	600	76	77	0
8:22:36 AM	600	76	77	1
8:22:37 AM	600	76	77	1
8:22:38 AM	600	76	78	1
8:22:39 AM	600	76	77	0
8:22:40 AM	600	76	78	0
8:22:41 AM	600	76	77	1
8:22:42 AM	600	76	77	1
8:22:43 AM	600	76	77	0
8:22:44 AM	600	76	78	1
8:22:45 AM	600	76	77	1
8:22:46 AM	600	76	77	1
8:22:47 AM	600	76	77	0
8:22:48 AM	600	76	77	1
8:22:49 AM	600	76	77	1
8:22:50 AM	600	76	78	1
8:22:51 AM	600	76	78	1
8:22:52 AM	600	76	77	0
8:22:53 AM	600	76	77	1
8:22:54 AM	600	76	77	0
8:22:54 AM	600	76	77	1
8:22:55 AM	600	76	77	1
8:22:56 AM	600	76	77	1
8:22:57 AM	600	76	78	1
8:22:58 AM	600	76	77	1
8:22:59 AM	600	76	77	0
8:23:00 AM	600	76	77	0
8:23:01 AM	600	76	77	1
8:23:02 AM	600	76	78	1
8:23:03 AM	600	76	77	1
8:23:04 AM	600	76	77	0
8:23:05 AM	600	76	77	0
8:23:06 AM	600	76	77	0
8:23:07 AM	600	76	77	0
8:23:08 AM	600	76	77	0
8:23:09 AM	600	76	77	0
8:23:10 AM	600	76	77	1
8:23:11 AM	600	76	77	0
8:23:12 AM	600	76	77	1
8:23:13 AM	600	76	77	0
8:23:14 AM	600	76	77	1
8:23:15 AM	600	76	77	1
8:23:16 AM	600	76	77	0
8:23:17 AM	600	76	77	1
8:23:18 AM	600	76	77	1
8:23:19 AM	600	76	77	0
Averages ->	600	76	77	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 350

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
9:15:18 AM	600	84	80	1
9:15:19 AM	600	84	80	1
9:15:20 AM	600	84	80	1
9:15:21 AM	600	84	79	1
9:15:22 AM	600	84	79	1
9:15:23 AM	600	84	80	1
9:15:24 AM	600	84	80	1
9:15:25 AM	600	84	80	1
9:15:26 AM	600	84	80	1
9:15:27 AM	600	84	80	1
9:15:28 AM	600	84	81	1
9:15:29 AM	600	84	80	1
9:15:30 AM	600	84	80	1
9:15:31 AM	600	84	79	1
9:15:32 AM	600	84	80	1
9:15:33 AM	600	84	80	1
9:15:34 AM	600	84	80	1
9:15:35 AM	600	84	80	1
9:15:36 AM	600	84	80	1
9:15:37 AM	600	84	80	1
9:15:38 AM	600	84	80	1
9:15:39 AM	600	84	80	1
9:15:40 AM	600	84	80	1
9:15:41 AM	600	84	80	1
9:15:42 AM	600	84	80	1
9:15:43 AM	600	84	80	1
9:15:44 AM	600	84	80	1
9:15:44 AM	600	84	80	1
9:15:45 AM	600	84	80	1
9:15:46 AM	600	84	79	1
9:15:47 AM	600	84	80	1
9:15:48 AM	600	84	79	1
9:15:49 AM	600	84	80	1
9:15:50 AM	600	84	80	1
9:15:51 AM	600	84	80	1
9:15:52 AM	600	84	80	1
9:15:53 AM	600	84	80	1
9:15:54 AM	600	84	80	1
9:15:55 AM	600	84	80	1
9:15:56 AM	600	84	80	1
9:15:57 AM	600	84	80	1
9:15:58 AM	600	84	80	1
9:15:59 AM	600	84	80	1
9:16:00 AM	600	84	80	0
9:16:01 AM	600	84	79	1
9:16:02 AM	600	84	80	1
9:16:03 AM	600	84	80	1
9:16:04 AM	600	84	80	1
9:16:05 AM	600	84	80	1
9:16:06 AM	600	84	80	1
9:16:07 AM	600	84	80	1
9:16:08 AM	600	84	79	1
9:16:09 AM	600	84	79	1
9:16:10 AM	600	84	79	1
9:16:11 AM	600	84	80	1
9:16:12 AM	600	84	80	1
9:16:13 AM	600	84	80	1
9:16:14 AM	600	84	80	1
9:16:15 AM	600	84	80	1
9:16:16 AM	600	84	80	1
Averages ->	600	84	80	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 400

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
10:10:17 AM	600	87	81	1
10:10:18 AM	600	87	81	1
10:10:19 AM	600	87	81	1
10:10:20 AM	600	87	81	1
10:10:21 AM	600	87	81	1
10:10:22 AM	600	87	81	1
10:10:23 AM	600	87	81	1
10:10:24 AM	600	87	82	1
10:10:25 AM	600	87	81	1
10:10:26 AM	600	87	82	1
10:10:27 AM	600	87	81	1
10:10:28 AM	600	87	82	1
10:10:29 AM	600	87	82	1
10:10:30 AM	600	87	81	1
10:10:31 AM	600	87	81	1
10:10:32 AM	600	87	81	1
10:10:33 AM	600	87	81	1
10:10:34 AM	600	87	81	1
10:10:35 AM	600	87	81	1
10:10:36 AM	600	87	82	1
10:10:37 AM	600	87	81	1
10:10:38 AM	600	87	81	1
10:10:39 AM	600	87	81	1
10:10:40 AM	600	87	81	1
10:10:41 AM	600	87	81	1
10:10:42 AM	600	87	81	1
10:10:43 AM	600	87	82	1
10:10:44 AM	600	87	81	1
10:10:45 AM	600	87	81	1
10:10:46 AM	600	87	81	1
10:10:47 AM	600	87	81	1
10:10:48 AM	600	87	82	1
10:10:49 AM	600	87	81	1
10:10:50 AM	600	87	82	1
10:10:51 AM	600	87	82	1
10:10:52 AM	600	87	82	1
10:10:53 AM	600	87	81	1
10:10:54 AM	600	87	81	1
10:10:55 AM	600	87	81	1
10:10:56 AM	600	87	81	1
10:10:57 AM	600	87	81	1
10:10:58 AM	600	87	81	1
10:10:59 AM	600	87	81	1
10:11:00 AM	600	87	81	1
10:11:01 AM	600	87	82	1
10:11:02 AM	600	87	81	1
10:11:03 AM	600	87	81	1
10:11:04 AM	600	87	81	1
10:11:05 AM	600	87	81	1
10:11:06 AM	600	87	81	1
10:11:07 AM	600	86	81	1
10:11:08 AM	600	87	81	1
10:11:09 AM	600	87	81	1
10:11:10 AM	600	87	81	1
10:11:11 AM	600	87	81	1
10:11:12 AM	600	87	82	1
10:11:13 AM	600	87	81	1
10:11:14 AM	600	87	81	1
10:11:15 AM	600	86	81	1
10:11:16 AM	600	86	81	1
Averages ->	600	87	81	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 450

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
11:01:45 AM	600	89	83	1
11:01:45 AM	600	89	82	1
11:01:46 AM	600	89	83	1
11:01:47 AM	600	89	83	1
11:01:48 AM	600	89	83	1
11:01:49 AM	600	89	83	1
11:01:50 AM	600	89	83	1
11:01:51 AM	600	89	83	1
11:01:52 AM	600	89	83	1
11:01:53 AM	600	89	83	1
11:01:54 AM	600	89	83	1
11:01:55 AM	600	89	84	1
11:01:56 AM	600	89	83	1
11:01:57 AM	600	89	83	1
11:01:58 AM	600	89	83	1
11:01:59 AM	600	89	83	1
11:02:00 AM	600	89	83	1
11:02:01 AM	600	89	83	1
11:02:02 AM	600	89	83	1
11:02:03 AM	600	89	83	1
11:02:04 AM	600	89	83	1
11:02:05 AM	600	89	83	1
11:02:06 AM	600	89	83	1
11:02:07 AM	600	89	83	1
11:02:08 AM	600	89	83	1
11:02:09 AM	600	89	83	1
11:02:10 AM	600	89	82	1
11:02:11 AM	600	89	83	1
11:02:12 AM	600	89	82	1
11:02:13 AM	600	89	83	1
11:02:14 AM	600	89	83	1
11:02:15 AM	600	89	83	1
11:02:16 AM	600	89	82	1
11:02:17 AM	600	89	82	1
11:02:18 AM	600	89	83	1
11:02:19 AM	600	89	83	1
11:02:20 AM	600	89	83	1
11:02:21 AM	600	89	83	1
11:02:22 AM	600	89	83	1
11:02:23 AM	600	89	83	1
11:02:24 AM	600	89	83	1
11:02:25 AM	600	89	83	1
11:02:26 AM	600	89	83	1
11:02:27 AM	600	89	82	1
11:02:28 AM	600	89	83	1
11:02:29 AM	600	89	83	1
11:02:30 AM	600	89	83	1
11:02:31 AM	600	89	82	1
11:02:32 AM	600	89	83	1
11:02:33 AM	600	89	83	1
11:02:34 AM	600	89	83	1
11:02:35 AM	600	89	83	1
11:02:36 AM	600	89	83	1
11:02:37 AM	600	89	83	1
11:02:38 AM	600	89	83	1
11:02:39 AM	600	89	83	1
11:02:40 AM	600	89	83	1
11:02:41 AM	600	89	83	1
11:02:42 AM	600	89	83	1
11:02:43 AM	600	89	83	1
Averages ->	600	89	83	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 451

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
1:46:48 PM	600	504	500	3
1:46:49 PM	600	505	499	4
1:46:50 PM	600	504	499	3
1:46:51 PM	600	505	499	4
1:46:52 PM	600	505	499	3
1:46:53 PM	600	505	499	4
1:46:54 PM	600	505	499	3
1:46:55 PM	600	505	499	3
1:46:56 PM	600	505	499	3
1:46:57 PM	600	505	499	3
1:46:58 PM	600	505	499	2
1:46:59 PM	600	505	499	5
1:47:00 PM	600	505	499	3
1:47:01 PM	600	505	499	2
1:47:02 PM	600	505	499	3
1:47:03 PM	600	505	499	3
1:47:04 PM	600	505	500	2
1:47:05 PM	600	505	499	2
1:47:06 PM	600	505	500	3
1:47:07 PM	600	505	499	3
1:47:08 PM	600	505	499	3
1:47:09 PM	600	505	499	3
1:47:10 PM	600	505	500	3
1:47:11 PM	600	505	499	2
1:47:12 PM	600	505	499	3
1:47:13 PM	600	505	499	3
1:47:14 PM	600	505	499	2
1:47:15 PM	600	504	499	4
1:47:16 PM	600	504	499	2
1:47:16 PM	600	504	499	2
1:47:17 PM	600	505	499	2
1:47:18 PM	600	504	499	2
1:47:19 PM	600	504	499	2
1:47:20 PM	600	504	499	2
1:47:21 PM	600	504	499	2
1:47:22 PM	600	504	499	1
1:47:23 PM	600	504	499	2
1:47:24 PM	600	504	499	2
1:47:25 PM	600	504	499	1
1:47:26 PM	600	504	499	2
1:47:27 PM	600	504	499	2
1:47:28 PM	600	504	499	1
1:47:29 PM	600	504	499	1
1:47:30 PM	600	504	499	1
1:47:31 PM	600	504	500	2
1:47:32 PM	600	504	499	1
1:47:33 PM	600	504	500	1
1:47:34 PM	600	504	499	1
1:47:35 PM	600	504	499	2
1:47:36 PM	600	504	499	0
1:47:37 PM	600	504	499	2
1:47:38 PM	600	504	499	1
1:47:39 PM	600	504	499	1
1:47:40 PM	600	504	499	1
1:47:41 PM	600	504	499	1
1:47:42 PM	600	505	499	1
1:47:43 PM	600	505	499	1
1:47:44 PM	600	505	499	1
1:47:45 PM	600	504	499	2
1:47:46 PM	600	504	499	2
Averages ->	600	505	499	2
			Maximum ->	5

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 500

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
2:37:42 PM	600	505	500	1
2:37:43 PM	600	504	500	2
2:37:44 PM	600	504	500	3
2:37:45 PM	600	504	500	2
2:37:46 PM	600	504	500	2
2:37:47 PM	600	504	500	3
2:37:48 PM	600	504	500	3
2:37:49 PM	600	504	500	2
2:37:49 PM	600	504	500	2
2:37:50 PM	600	503	500	2
2:37:51 PM	600	504	500	2
2:37:52 PM	600	504	500	2
2:37:53 PM	600	504	500	2
2:37:54 PM	600	504	500	2
2:37:55 PM	600	504	500	2
2:37:56 PM	600	504	500	2
2:37:57 PM	600	504	500	2
2:37:58 PM	600	504	500	1
2:37:59 PM	600	504	500	2
2:38:00 PM	600	504	500	1
2:38:01 PM	600	504	500	2
2:38:02 PM	600	504	498	2
2:38:03 PM	600	504	499	2
2:38:04 PM	600	504	498	2
2:38:05 PM	600	504	498	2
2:38:06 PM	600	504	498	3
2:38:07 PM	600	504	497	2
2:38:08 PM	600	505	497	2
2:38:09 PM	600	504	497	1
2:38:10 PM	600	505	497	3
2:38:11 PM	600	505	497	2
2:38:12 PM	600	505	497	2
2:38:13 PM	600	505	497	2
2:38:14 PM	600	505	497	3
2:38:15 PM	600	505	497	2
2:38:16 PM	600	505	496	2
2:38:17 PM	600	505	496	2
2:38:18 PM	600	505	497	2
2:38:19 PM	600	505	496	1
2:38:20 PM	600	505	497	2
2:38:21 PM	600	506	497	1
2:38:22 PM	600	505	497	2
2:38:23 PM	600	505	497	1
2:38:24 PM	600	505	497	1
2:38:25 PM	600	505	497	2
2:38:26 PM	600	505	497	2
2:38:27 PM	600	505	497	2
2:38:28 PM	600	506	497	1
2:38:29 PM	600	505	497	1
2:38:30 PM	600	505	497	1
2:38:31 PM	600	505	498	2
2:38:32 PM	600	505	498	1
2:38:33 PM	600	505	498	1
2:38:34 PM	600	505	498	1
2:38:35 PM	600	505	498	1
2:38:36 PM	600	505	498	1
2:38:37 PM	600	505	498	1
2:38:38 PM	600	504	498	1
2:38:39 PM	600	504	498	1
2:38:40 PM	600	505	499	2
Averages ->	600	505	498	2
			Maximum ->	3

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 550

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
3:29:40 PM	600	503	502	1
3:29:41 PM	600	503	503	2
3:29:42 PM	600	503	502	2
3:29:43 PM	600	504	502	1
3:29:44 PM	600	504	502	1
3:29:45 PM	600	504	502	2
3:29:46 PM	600	504	503	1
3:29:47 PM	600	504	502	2
3:29:48 PM	600	504	502	2
3:29:49 PM	600	505	502	2
3:29:50 PM	600	504	503	1
3:29:51 PM	600	504	503	1
3:29:52 PM	600	505	503	2
3:29:53 PM	600	505	503	2
3:29:54 PM	600	505	502	2
3:29:55 PM	600	505	502	2
3:29:56 PM	600	505	502	2
3:29:57 PM	600	505	502	1
3:29:58 PM	600	505	503	1
3:29:59 PM	600	505	502	1
3:30:00 PM	600	505	502	1
3:30:01 PM	600	505	503	2
3:30:02 PM	600	505	503	2
3:30:03 PM	600	505	503	1
3:30:04 PM	600	505	502	1
3:30:05 PM	600	505	503	2
3:30:06 PM	600	506	503	2
3:30:07 PM	600	505	503	2
3:30:08 PM	600	506	503	1
3:30:09 PM	600	506	502	1
3:30:10 PM	600	505	503	1
3:30:11 PM	600	505	503	1
3:30:12 PM	600	505	503	2
3:30:13 PM	600	505	503	1
3:30:14 PM	600	505	503	2
3:30:15 PM	600	505	503	1
3:30:16 PM	600	505	503	1
3:30:17 PM	600	505	503	1
3:30:18 PM	600	505	503	1
3:30:19 PM	600	505	503	1
3:30:20 PM	600	505	503	1
3:30:21 PM	600	505	503	2
3:30:22 PM	600	499	503	1
3:30:23 PM	600	503	503	1
3:30:24 PM	600	503	503	2
3:30:25 PM	600	503	503	1
3:30:26 PM	600	503	503	3
3:30:27 PM	600	503	503	1
3:30:28 PM	600	503	503	1
3:30:29 PM	600	503	504	1
3:30:30 PM	600	502	503	2
3:30:31 PM	600	503	504	1
3:30:32 PM	600	503	503	1
3:30:32 PM	600	503	503	1
3:30:33 PM	600	503	503	2
3:30:34 PM	600	503	503	2
3:30:35 PM	600	503	503	1
3:30:36 PM	600	503	503	1
3:30:37 PM	600	502	503	2
3:30:38 PM	600	503	503	1
Averages ->	600	504	503	1
			Maximum ->	3

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 600

Date 5/5/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
4:20:26 PM	600	499	506	1
4:20:27 PM	600	499	506	2
4:20:28 PM	600	499	506	1
4:20:29 PM	600	499	506	1
4:20:30 PM	600	499	506	1
4:20:31 PM	600	499	505	2
4:20:32 PM	600	498	505	2
4:20:33 PM	600	499	506	1
4:20:34 PM	600	499	505	1
4:20:35 PM	600	499	505	2
4:20:36 PM	600	499	505	1
4:20:37 PM	600	498	505	1
4:20:38 PM	600	498	505	2
4:20:39 PM	600	498	505	1
4:20:40 PM	600	498	505	1
4:20:41 PM	600	498	505	1
4:20:42 PM	600	497	504	2
4:20:43 PM	600	497	504	2
4:20:44 PM	600	498	505	0
4:20:45 PM	600	498	505	2
4:20:46 PM	600	498	505	1
4:20:47 PM	600	497	505	0
4:20:48 PM	600	497	504	1
4:20:49 PM	600	498	505	1
4:20:50 PM	600	497	505	1
4:20:51 PM	600	497	504	1
4:20:52 PM	600	500	504	1
4:20:53 PM	600	501	504	1
4:20:54 PM	600	500	504	1
4:20:55 PM	600	500	504	1
4:20:56 PM	600	501	504	2
4:20:57 PM	600	501	504	1
4:20:58 PM	600	501	504	2
4:20:59 PM	600	500	504	1
4:21:00 PM	600	501	503	1
4:21:01 PM	600	501	504	2
4:21:02 PM	600	501	503	2
4:21:03 PM	600	501	503	1
4:21:04 PM	600	501	503	2
4:21:05 PM	600	501	503	1
4:21:06 PM	600	501	503	2
4:21:07 PM	600	502	503	1
4:21:08 PM	600	502	503	2
4:21:09 PM	600	502	503	1
4:21:10 PM	600	502	503	1
4:21:11 PM	600	502	503	1
4:21:12 PM	600	502	503	1
4:21:13 PM	600	502	503	1
4:21:14 PM	600	502	503	1
4:21:15 PM	600	502	503	1
4:21:16 PM	600	502	503	1
4:21:17 PM	600	503	503	2
4:21:18 PM	600	503	503	1
4:21:19 PM	600	503	502	1
4:21:20 PM	600	503	502	1
4:21:21 PM	600	503	502	1
4:21:22 PM	600	503	502	1
4:21:22 PM	600	504	502	0
4:21:23 PM	600	503	502	1
4:21:24 PM	600	504	503	1
Averages ->	600	500	504	1
			Maximum ->	2

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 601

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
8:34:50 AM	600	81	86	1
8:34:51 AM	600	80	86	1
8:34:52 AM	600	81	86	1
8:34:53 AM	600	80	86	2
8:34:54 AM	600	80	86	1
8:34:55 AM	600	80	86	1
8:34:56 AM	600	81	85	2
8:34:57 AM	600	81	86	1
8:34:58 AM	600	80	86	2
8:34:59 AM	600	80	86	1
8:35:00 AM	600	80	86	1
8:35:01 AM	600	81	85	1
8:35:02 AM	600	80	86	1
8:35:03 AM	600	81	85	1
8:35:04 AM	600	80	86	0
8:35:05 AM	600	80	85	1
8:35:06 AM	600	81	85	1
8:35:07 AM	600	80	85	1
8:35:08 AM	600	81	85	1
8:35:09 AM	600	81	85	2
8:35:10 AM	600	81	85	1
8:35:11 AM	600	80	85	1
8:35:12 AM	600	80	85	1
8:35:13 AM	600	80	85	1
8:35:14 AM	600	80	85	1
8:35:15 AM	600	81	85	1
8:35:16 AM	600	80	85	1
8:35:17 AM	600	80	85	1
8:35:18 AM	600	81	85	1
8:35:19 AM	600	81	84	1
8:35:20 AM	600	80	84	1
8:35:21 AM	600	81	85	1
8:35:22 AM	600	80	85	1
8:35:23 AM	600	80	85	1
8:35:24 AM	600	81	85	1
8:35:25 AM	600	80	85	1
8:35:26 AM	600	81	84	1
8:35:27 AM	600	80	84	1
8:35:28 AM	600	81	84	1
8:35:29 AM	600	80	85	1
8:35:30 AM	600	81	84	1
8:35:31 AM	600	81	84	1
8:35:32 AM	600	80	85	1
8:35:33 AM	600	80	85	1
8:35:34 AM	600	80	85	1
8:35:35 AM	600	80	85	1
8:35:36 AM	600	80	84	1
8:35:37 AM	600	80	85	1
8:35:38 AM	600	81	85	1
8:35:39 AM	600	81	84	1
8:35:40 AM	600	81	84	1
8:35:41 AM	600	80	85	1
8:35:42 AM	600	80	84	1
8:35:43 AM	600	81	84	1
8:35:44 AM	600	81	84	1
8:35:44 AM	600	81	84	1
8:35:45 AM	600	81	84	1
8:35:46 AM	600	80	84	1
8:35:47 AM	600	80	84	1
8:35:48 AM	600	81	84	1
Averages ->	600	81	85	1
			Maximum ->	2

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 650

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
9:27:25 AM	600	89	85	1
9:27:26 AM	600	89	85	0
9:27:27 AM	600	89	85	0
9:27:28 AM	600	89	86	1
9:27:29 AM	600	89	86	1
9:27:30 AM	600	89	86	0
9:27:31 AM	600	89	86	0
9:27:32 AM	600	89	85	1
9:27:33 AM	600	89	85	1
9:27:34 AM	600	89	86	1
9:27:35 AM	600	89	85	1
9:27:36 AM	600	89	85	0
9:27:37 AM	600	89	85	1
9:27:38 AM	600	89	85	0
9:27:39 AM	600	89	85	0
9:27:40 AM	600	89	85	0
9:27:41 AM	600	89	85	0
9:27:42 AM	600	89	85	1
9:27:43 AM	600	89	86	0
9:27:44 AM	600	89	85	0
9:27:45 AM	600	89	86	0
9:27:46 AM	600	89	85	0
9:27:47 AM	600	89	85	0
9:27:48 AM	600	89	85	0
9:27:49 AM	600	89	85	0
9:27:50 AM	600	89	85	0
9:27:51 AM	600	89	85	0
9:27:52 AM	600	89	85	0
9:27:53 AM	600	89	85	0
9:27:54 AM	600	89	85	1
9:27:55 AM	600	89	85	0
9:27:56 AM	600	89	85	0
9:27:57 AM	600	89	85	0
9:27:58 AM	600	89	85	0
9:27:59 AM	600	89	85	0
9:28:00 AM	600	89	85	0
9:28:01 AM	600	89	85	0
9:28:01 AM	600	89	85	1
9:28:02 AM	600	89	85	1
9:28:03 AM	600	89	85	0
9:28:04 AM	600	89	85	1
9:28:05 AM	600	89	85	1
9:28:06 AM	600	89	85	1
9:28:07 AM	600	89	85	1
9:28:08 AM	600	89	85	0
9:28:09 AM	600	88	85	0
9:28:10 AM	600	89	85	1
9:28:11 AM	600	89	85	1
9:28:12 AM	600	88	85	0
9:28:13 AM	600	89	85	1
9:28:14 AM	600	89	85	1
9:28:15 AM	600	89	85	0
9:28:16 AM	600	89	85	0
9:28:17 AM	600	88	85	0
9:28:18 AM	600	89	85	1
9:28:19 AM	600	89	85	0
9:28:20 AM	600	89	86	0
9:28:21 AM	600	88	85	1
9:28:22 AM	600	89	85	0
9:28:23 AM	600	89	85	1
Averages ->	600	89	85	0
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 700

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
10:26:17 AM	600	91	86	0
10:26:18 AM	600	91	86	0
10:26:19 AM	600	91	86	1
10:26:20 AM	600	90	87	0
10:26:21 AM	600	91	86	0
10:26:22 AM	600	91	86	0
10:26:23 AM	600	91	86	0
10:26:24 AM	600	91	86	0
10:26:25 AM	600	91	87	0
10:26:26 AM	600	91	86	0
10:26:27 AM	600	91	86	0
10:26:28 AM	600	91	86	1
10:26:29 AM	600	91	86	0
10:26:30 AM	600	91	86	0
10:26:31 AM	600	91	86	0
10:26:32 AM	600	91	86	0
10:26:33 AM	600	90	86	0
10:26:34 AM	600	91	86	0
10:26:35 AM	600	91	86	0
10:26:36 AM	600	91	86	0
10:26:37 AM	600	90	86	1
10:26:38 AM	600	91	86	0
10:26:39 AM	600	91	86	-1
10:26:40 AM	600	91	86	0
10:26:41 AM	600	91	86	0
10:26:42 AM	600	91	86	1
10:26:43 AM	600	91	86	0
10:26:44 AM	600	91	86	0
10:26:45 AM	600	91	86	0
10:26:46 AM	600	90	86	0
10:26:47 AM	600	91	86	0
10:26:48 AM	600	91	86	0
10:26:49 AM	600	90	87	0
10:26:50 AM	600	91	86	0
10:26:51 AM	600	91	86	0
10:26:52 AM	600	91	86	0
10:26:53 AM	600	91	86	-1
10:26:54 AM	600	91	86	1
10:26:55 AM	600	91	86	0
10:26:56 AM	600	91	86	1
10:26:57 AM	600	91	86	0
10:26:58 AM	600	91	86	0
10:26:59 AM	600	91	86	0
10:27:00 AM	600	91	86	0
10:27:01 AM	600	91	86	0
10:27:02 AM	600	90	86	0
10:27:03 AM	600	91	86	0
10:27:04 AM	600	91	86	-1
10:27:05 AM	600	91	86	0
10:27:06 AM	600	91	86	0
10:27:07 AM	600	91	86	0
10:27:08 AM	600	91	86	-1
10:27:09 AM	600	91	86	0
10:27:10 AM	600	91	86	0
10:27:11 AM	600	91	86	-1
10:27:12 AM	600	91	86	0
10:27:13 AM	600	91	86	0
10:27:14 AM	600	91	86	1
10:27:15 AM	600	91	86	1
10:27:16 AM	600	91	86	1
Averages ->	600	91	86	0
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 750

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
11:21:30 AM	600	92	87	2
11:21:31 AM	600	92	87	1
11:21:32 AM	600	92	87	1
11:21:33 AM	600	92	87	1
11:21:34 AM	600	92	87	1
11:21:35 AM	600	92	87	1
11:21:36 AM	600	92	87	2
11:21:37 AM	600	92	87	2
11:21:38 AM	600	92	87	1
11:21:39 AM	600	92	86	1
11:21:40 AM	600	92	87	2
11:21:41 AM	600	92	87	2
11:21:42 AM	600	92	87	1
11:21:43 AM	600	92	87	1
11:21:44 AM	600	92	87	2
11:21:45 AM	600	92	87	2
11:21:46 AM	600	92	87	1
11:21:47 AM	600	92	86	1
11:21:48 AM	600	92	87	1
11:21:49 AM	600	92	87	2
11:21:50 AM	600	92	87	1
11:21:51 AM	600	92	87	1
11:21:52 AM	600	92	87	1
11:21:53 AM	600	92	87	1
11:21:54 AM	600	92	87	1
11:21:55 AM	600	92	87	1
11:21:56 AM	600	92	87	2
11:21:57 AM	600	92	87	1
11:21:58 AM	600	92	87	1
11:21:59 AM	600	92	87	1
11:22:00 AM	600	92	87	1
11:22:01 AM	600	92	87	2
11:22:02 AM	600	92	87	1
11:22:03 AM	600	92	87	1
11:22:04 AM	600	92	87	2
11:22:05 AM	600	92	87	1
11:22:06 AM	600	92	86	1
11:22:07 AM	600	92	87	1
11:22:08 AM	600	92	87	1
11:22:09 AM	600	92	87	1
11:22:10 AM	600	92	87	1
11:22:11 AM	600	92	87	1
11:22:12 AM	600	92	87	1
11:22:13 AM	600	92	86	1
11:22:14 AM	600	92	87	1
11:22:15 AM	600	92	86	2
11:22:16 AM	600	92	87	1
11:22:17 AM	600	92	87	1
11:22:17 AM	600	92	86	1
11:22:18 AM	600	92	87	1
11:22:19 AM	600	92	87	1
11:22:20 AM	600	92	87	1
11:22:21 AM	600	92	86	1
11:22:22 AM	600	92	87	1
11:22:23 AM	600	92	87	1
11:22:24 AM	600	92	86	1
11:22:25 AM	600	92	86	1
11:22:26 AM	600	92	87	1
11:22:27 AM	600	92	87	1
11:22:28 AM	600	92	87	1
Averages ->	600	92	87	1
			Maximum ->	2

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 751

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
1:40:46 PM	600	505	504	3
1:40:47 PM	600	505	504	2
1:40:48 PM	600	504	504	2
1:40:49 PM	600	505	504	2
1:40:50 PM	600	505	503	2
1:40:51 PM	600	505	504	2
1:40:52 PM	600	505	504	2
1:40:53 PM	600	505	504	3
1:40:54 PM	600	505	504	2
1:40:55 PM	600	505	504	2
1:40:56 PM	600	505	504	2
1:40:57 PM	600	506	504	2
1:40:58 PM	600	505	504	2
1:40:59 PM	600	505	504	2
1:41:00 PM	600	505	504	2
1:41:01 PM	600	505	504	2
1:41:02 PM	600	505	504	2
1:41:03 PM	600	505	504	2
1:41:04 PM	600	505	504	2
1:41:05 PM	600	505	504	2
1:41:06 PM	600	505	504	3
1:41:07 PM	600	505	504	2
1:41:08 PM	600	505	504	2
1:41:09 PM	600	505	504	2
1:41:10 PM	600	504	504	3
1:41:11 PM	600	505	504	2
1:41:12 PM	600	504	504	2
1:41:13 PM	600	505	504	2
1:41:14 PM	600	504	504	3
1:41:15 PM	600	504	504	2
1:41:16 PM	600	504	504	2
1:41:17 PM	600	504	504	2
1:41:18 PM	600	504	504	2
1:41:19 PM	600	504	504	2
1:41:20 PM	600	504	505	2
1:41:21 PM	600	504	504	2
1:41:22 PM	600	504	504	2
1:41:23 PM	600	504	504	2
1:41:24 PM	600	504	504	2
1:41:25 PM	600	504	504	2
1:41:26 PM	600	504	504	2
1:41:27 PM	600	504	504	2
1:41:28 PM	600	504	504	2
1:41:28 PM	600	504	504	2
1:41:29 PM	600	504	505	2
1:41:30 PM	600	504	504	2
1:41:31 PM	600	504	504	2
1:41:32 PM	600	504	504	2
1:41:33 PM	600	504	505	2
1:41:34 PM	600	504	504	2
1:41:35 PM	600	504	505	2
1:41:36 PM	600	504	504	2
1:41:37 PM	600	504	504	2
1:41:38 PM	600	504	504	2
1:41:39 PM	600	505	504	2
1:41:40 PM	600	505	504	2
1:41:41 PM	600	504	504	1
1:41:42 PM	600	505	504	2
1:41:43 PM	600	505	504	2
1:41:44 PM	600	505	504	2
Averages ->	600	505	504	2
			Maximum ->	3

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 800

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
2:40:09 PM	600	504	491	1
2:40:10 PM	600	504	491	2
2:40:11 PM	600	504	491	2
2:40:12 PM	600	504	491	2
2:40:13 PM	600	504	491	2
2:40:14 PM	600	505	491	1
2:40:15 PM	600	504	491	1
2:40:16 PM	600	504	492	2
2:40:17 PM	600	504	500	2
2:40:18 PM	600	505	500	1
2:40:19 PM	600	505	500	1
2:40:20 PM	600	504	501	1
2:40:21 PM	600	505	500	1
2:40:22 PM	600	505	500	1
2:40:23 PM	600	505	500	1
2:40:24 PM	600	505	500	1
2:40:25 PM	600	505	500	1
2:40:25 PM	600	505	500	1
2:40:26 PM	600	505	500	1
2:40:27 PM	600	505	500	1
2:40:28 PM	600	506	500	2
2:40:29 PM	600	505	500	2
2:40:30 PM	600	505	500	2
2:40:31 PM	600	505	500	1
2:40:32 PM	600	506	500	1
2:40:33 PM	600	506	500	2
2:40:34 PM	600	505	500	1
2:40:35 PM	600	505	500	2
2:40:36 PM	600	505	501	2
2:40:37 PM	600	505	500	1
2:40:38 PM	600	505	501	3
2:40:39 PM	600	505	500	1
2:40:40 PM	600	505	500	1
2:40:41 PM	600	505	501	2
2:40:42 PM	600	504	500	2
2:40:43 PM	600	505	500	2
2:40:44 PM	600	505	500	2
2:40:45 PM	600	505	500	1
2:40:46 PM	600	505	500	2
2:40:47 PM	600	504	500	2
2:40:48 PM	600	504	500	1
2:40:49 PM	600	504	500	1
2:40:50 PM	600	504	500	1
2:40:51 PM	600	504	500	1
2:40:52 PM	600	504	500	2
2:40:53 PM	600	504	500	2
2:40:54 PM	600	504	500	1
2:40:55 PM	600	504	500	1
2:40:56 PM	600	504	500	1
2:40:57 PM	600	504	501	2
2:40:58 PM	600	504	500	2
2:40:59 PM	600	504	501	2
2:41:00 PM	600	504	500	1
2:41:01 PM	600	504	500	1
2:41:02 PM	600	504	501	1
2:41:03 PM	600	504	500	2
2:41:04 PM	600	504	500	2
2:41:05 PM	600	503	501	1
2:41:06 PM	600	503	500	2
2:41:07 PM	600	504	500	2
Averages ->	600	505	499	1
			Maximum ->	3

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 850

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
3:38:35 PM	600	498	495	2
3:38:36 PM	600	497	495	1
3:38:37 PM	600	497	495	2
3:38:38 PM	600	497	495	2
3:38:39 PM	600	497	494	1
3:38:40 PM	600	498	495	1
3:38:41 PM	600	498	495	1
3:38:42 PM	600	498	494	2
3:38:43 PM	600	498	495	2
3:38:44 PM	600	498	495	1
3:38:45 PM	600	498	495	1
3:38:46 PM	600	498	494	2
3:38:47 PM	600	498	494	2
3:38:48 PM	600	499	494	2
3:38:49 PM	600	499	495	2
3:38:50 PM	600	499	495	2
3:38:51 PM	600	499	494	2
3:38:52 PM	600	499	495	1
3:38:53 PM	600	499	495	2
3:38:54 PM	600	499	494	2
3:38:55 PM	600	499	494	2
3:38:56 PM	600	499	494	1
3:38:57 PM	600	499	494	1
3:38:58 PM	600	499	494	2
3:38:59 PM	600	499	494	2
3:39:00 PM	600	500	494	2
3:39:01 PM	600	500	494	2
3:39:02 PM	600	499	494	2
3:39:03 PM	600	500	495	2
3:39:04 PM	600	500	494	2
3:39:05 PM	600	500	495	2
3:39:06 PM	600	500	494	2
3:39:07 PM	600	500	494	2
3:39:08 PM	600	500	494	2
3:39:09 PM	600	500	495	2
3:39:10 PM	600	501	494	2
3:39:11 PM	600	500	495	2
3:39:12 PM	600	501	495	2
3:39:12 PM	600	501	495	1
3:39:13 PM	600	501	495	2
3:39:14 PM	600	501	494	1
3:39:15 PM	600	501	495	2
3:39:16 PM	600	501	494	2
3:39:17 PM	600	501	495	2
3:39:18 PM	600	501	494	2
3:39:19 PM	600	501	494	2
3:39:20 PM	600	501	495	2
3:39:21 PM	600	501	494	1
3:39:22 PM	600	502	495	2
3:39:23 PM	600	502	495	2
3:39:24 PM	600	502	495	1
3:39:25 PM	600	502	495	1
3:39:26 PM	600	502	495	2
3:39:27 PM	600	502	495	2
3:39:28 PM	600	502	495	2
3:39:29 PM	600	502	495	2
3:39:30 PM	600	502	495	2
3:39:31 PM	600	502	495	2
3:39:32 PM	600	502	495	2
3:39:33 PM	600	502	495	2
Averages ->	600	500	495	2
			Maximum ->	2

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 900

Date 5/6/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
4:34:24 PM	600	504	502	6
4:34:25 PM	600	504	502	6
4:34:26 PM	600	504	502	6
4:34:27 PM	600	504	502	6
4:34:28 PM	600	504	502	5
4:34:29 PM	600	504	502	6
4:34:30 PM	600	504	502	6
4:34:31 PM	600	504	501	5
4:34:32 PM	600	504	502	5
4:34:33 PM	600	504	501	7
4:34:34 PM	600	504	502	5
4:34:35 PM	600	504	502	5
4:34:36 PM	600	504	502	5
4:34:37 PM	600	504	502	6
4:34:38 PM	600	505	502	5
4:34:39 PM	600	504	502	5
4:34:40 PM	600	505	502	6
4:34:41 PM	600	505	502	6
4:34:42 PM	600	505	502	6
4:34:43 PM	600	505	502	6
4:34:44 PM	600	505	502	5
4:34:45 PM	600	505	502	6
4:34:46 PM	600	505	502	5
4:34:47 PM	600	505	502	6
4:34:48 PM	600	505	502	5
4:34:49 PM	600	506	502	5
4:34:50 PM	600	505	502	5
4:34:51 PM	600	505	501	6
4:34:52 PM	600	505	502	6
4:34:53 PM	600	505	502	5
4:34:54 PM	600	506	502	6
4:34:55 PM	600	505	502	5
4:34:56 PM	600	505	502	5
4:34:56 PM	600	505	502	5
4:34:57 PM	600	505	502	5
4:34:58 PM	600	505	502	4
4:34:59 PM	600	505	502	5
4:35:00 PM	600	505	502	5
4:35:01 PM	600	505	502	5
4:35:02 PM	600	505	502	5
4:35:03 PM	600	505	502	5
4:35:04 PM	600	504	502	5
4:35:05 PM	600	504	502	5
4:35:06 PM	600	505	502	5
4:35:07 PM	600	505	502	6
4:35:08 PM	600	504	502	5
4:35:09 PM	600	504	502	5
4:35:10 PM	600	504	502	6
4:35:11 PM	600	504	502	6
4:35:12 PM	600	504	502	5
4:35:13 PM	600	504	502	5
4:35:14 PM	600	504	502	6
4:35:15 PM	600	504	502	6
4:35:16 PM	600	504	502	5
4:35:17 PM	600	504	502	5
4:35:18 PM	600	504	502	6
4:35:19 PM	600	504	502	5
4:35:20 PM	600	504	502	5
4:35:21 PM	600	504	502	5
4:35:22 PM	600	504	502	5
Averages ->	600	505	502	5
			Maximum ->	7

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 901

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
8:37:01 AM	600	68	67	1
8:37:02 AM	600	68	67	1
8:37:03 AM	600	68	68	1
8:37:04 AM	600	68	67	1
8:37:05 AM	600	68	67	1
8:37:06 AM	600	68	67	1
8:37:07 AM	600	68	67	1
8:37:08 AM	600	68	68	1
8:37:09 AM	600	68	68	1
8:37:10 AM	600	68	68	1
8:37:11 AM	600	68	67	1
8:37:12 AM	600	68	67	1
8:37:13 AM	600	68	67	1
8:37:14 AM	600	68	68	1
8:37:15 AM	600	68	68	1
8:37:16 AM	600	68	68	1
8:37:17 AM	600	68	67	1
8:37:18 AM	600	68	67	1
8:37:19 AM	600	68	67	1
8:37:20 AM	600	68	67	1
8:37:21 AM	600	68	68	1
8:37:21 AM	600	68	67	1
8:37:22 AM	600	68	67	1
8:37:23 AM	600	68	68	1
8:37:24 AM	600	68	67	1
8:37:25 AM	600	68	67	1
8:37:26 AM	600	68	68	1
8:37:27 AM	600	68	68	1
8:37:28 AM	600	68	67	1
8:37:29 AM	600	68	68	1
8:37:30 AM	600	68	67	1
8:37:31 AM	600	68	67	1
8:37:32 AM	600	68	68	1
8:37:33 AM	600	68	68	1
8:37:34 AM	600	68	67	1
8:37:35 AM	600	68	68	1
8:37:36 AM	600	68	68	1
8:37:37 AM	600	68	68	1
8:37:38 AM	600	68	68	1
8:37:39 AM	600	68	68	1
8:37:40 AM	600	68	67	1
8:37:41 AM	600	68	67	1
8:37:42 AM	600	68	68	1
8:37:43 AM	600	68	67	0
8:37:44 AM	600	68	68	1
8:37:45 AM	600	68	68	1
8:37:46 AM	600	68	68	1
8:37:47 AM	600	68	67	0
8:37:48 AM	600	68	67	0
8:37:49 AM	600	68	67	0
8:37:50 AM	600	68	67	1
8:37:51 AM	600	68	68	1
8:37:52 AM	600	68	67	1
8:37:53 AM	600	68	67	1
8:37:54 AM	600	68	67	0
8:37:55 AM	600	68	68	1
8:37:56 AM	600	68	68	0
8:37:57 AM	600	68	68	1
8:37:58 AM	600	68	68	1
8:37:59 AM	600	68	68	0
Averages ->	600	68	68	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 950

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
9:34:54 AM	600	77	72	0
9:34:55 AM	600	77	72	1
9:34:56 AM	600	77	72	1
9:34:57 AM	600	78	72	0
9:34:58 AM	600	77	72	0
9:34:59 AM	600	77	72	1
9:35:00 AM	600	78	72	1
9:35:01 AM	600	77	72	1
9:35:02 AM	600	78	72	0
9:35:03 AM	600	78	72	1
9:35:04 AM	600	78	72	1
9:35:05 AM	600	78	72	1
9:35:06 AM	600	78	72	1
9:35:07 AM	600	78	72	1
9:35:08 AM	600	77	72	0
9:35:09 AM	600	78	72	0
9:35:10 AM	600	78	72	1
9:35:11 AM	600	77	72	0
9:35:12 AM	600	77	72	0
9:35:13 AM	600	78	72	1
9:35:14 AM	600	77	72	0
9:35:15 AM	600	78	72	1
9:35:16 AM	600	78	72	1
9:35:17 AM	600	78	72	0
9:35:18 AM	600	77	72	1
9:35:19 AM	600	78	72	1
9:35:20 AM	600	78	73	0
9:35:21 AM	600	78	72	0
9:35:22 AM	600	78	72	1
9:35:22 AM	600	78	72	1
9:35:23 AM	600	77	72	0
9:35:24 AM	600	77	73	1
9:35:25 AM	600	78	72	0
9:35:26 AM	600	78	72	1
9:35:27 AM	600	78	72	0
9:35:28 AM	600	77	72	1
9:35:29 AM	600	78	73	0
9:35:30 AM	600	77	72	1
9:35:31 AM	600	78	72	0
9:35:32 AM	600	78	73	0
9:35:33 AM	600	78	72	0
9:35:34 AM	600	78	73	0
9:35:35 AM	600	77	72	1
9:35:36 AM	600	78	72	1
9:35:37 AM	600	78	72	0
9:35:38 AM	600	77	72	0
9:35:39 AM	600	78	73	0
9:35:40 AM	600	77	72	1
9:35:41 AM	600	77	72	1
9:35:42 AM	600	78	72	0
9:35:43 AM	600	78	72	0
9:35:44 AM	600	78	72	0
9:35:45 AM	600	78	72	1
9:35:46 AM	600	78	72	0
9:35:47 AM	600	78	72	1
9:35:48 AM	600	77	72	0
9:35:49 AM	600	78	73	1
9:35:50 AM	600	77	73	0
9:35:51 AM	600	77	72	0
9:35:52 AM	600	77	72	1
Averages ->	600	77	72	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1000

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
10:59:12 AM	600	78	75	1
10:59:13 AM	600	78	75	0
10:59:14 AM	600	78	75	1
10:59:15 AM	600	78	75	1
10:59:16 AM	600	78	75	0
10:59:17 AM	600	78	75	1
10:59:18 AM	600	78	75	0
10:59:19 AM	600	78	75	0
10:59:20 AM	600	78	75	1
10:59:21 AM	600	78	75	0
10:59:22 AM	600	78	75	0
10:59:23 AM	600	78	75	1
10:59:24 AM	600	78	75	1
10:59:25 AM	600	78	75	0
10:59:26 AM	600	78	75	0
10:59:27 AM	600	78	75	0
10:59:28 AM	600	78	75	1
10:59:29 AM	600	78	75	1
10:59:30 AM	600	78	75	0
10:59:31 AM	600	78	75	0
10:59:32 AM	600	78	75	0
10:59:33 AM	600	78	75	1
10:59:34 AM	600	78	75	0
10:59:35 AM	600	78	75	1
10:59:36 AM	600	78	74	0
10:59:37 AM	600	78	75	0
10:59:38 AM	600	78	75	1
10:59:39 AM	600	78	75	0
10:59:40 AM	600	78	75	0
10:59:41 AM	600	78	75	0
10:59:42 AM	600	78	75	1
10:59:43 AM	600	78	75	1
10:59:44 AM	600	78	75	0
10:59:45 AM	600	78	75	0
10:59:46 AM	600	78	75	1
10:59:47 AM	600	78	75	1
10:59:48 AM	600	78	75	1
10:59:49 AM	600	78	75	0
10:59:50 AM	600	78	75	0
10:59:51 AM	600	78	75	1
10:59:52 AM	600	78	75	0
10:59:53 AM	600	78	75	1
10:59:54 AM	600	78	75	1
10:59:55 AM	600	78	75	0
10:59:56 AM	600	78	75	1
10:59:57 AM	600	78	75	1
10:59:58 AM	600	78	75	0
10:59:59 AM	600	78	75	1
11:00:00 AM	600	78	75	1
11:00:01 AM	600	78	74	0
11:00:02 AM	600	78	75	0
11:00:03 AM	600	78	75	1
11:00:04 AM	600	78	75	0
11:00:05 AM	600	78	74	1
11:00:06 AM	600	78	75	0
11:00:07 AM	600	78	74	1
11:00:08 AM	600	78	74	1
11:00:08 AM	600	78	75	1
11:00:09 AM	600	78	75	1
11:00:10 AM	600	78	75	0
Averages ->	600	78	75	0
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1050

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
11:52:27 AM	600	86	79	0
11:52:28 AM	600	86	79	0
11:52:29 AM	600	86	79	1
11:52:30 AM	600	86	79	1
11:52:31 AM	600	86	79	0
11:52:32 AM	600	86	79	1
11:52:33 AM	600	86	79	1
11:52:34 AM	600	86	79	1
11:52:35 AM	600	85	79	1
11:52:36 AM	600	86	79	0
11:52:37 AM	600	86	79	1
11:52:38 AM	600	86	79	0
11:52:39 AM	600	86	79	0
11:52:40 AM	600	86	79	0
11:52:41 AM	600	86	79	0
11:52:42 AM	600	86	79	1
11:52:43 AM	600	86	79	0
11:52:44 AM	600	86	79	1
11:52:45 AM	600	86	79	0
11:52:46 AM	600	86	79	1
11:52:47 AM	600	86	79	0
11:52:48 AM	600	86	79	1
11:52:49 AM	600	86	79	0
11:52:50 AM	600	86	80	1
11:52:51 AM	600	86	79	0
11:52:52 AM	600	86	79	1
11:52:53 AM	600	86	79	1
11:52:54 AM	600	86	79	1
11:52:55 AM	600	86	78	1
11:52:56 AM	600	86	79	1
11:52:57 AM	600	86	79	1
11:52:58 AM	600	85	79	1
11:52:59 AM	600	86	79	1
11:53:00 AM	600	85	79	0
11:53:01 AM	600	86	79	1
11:53:02 AM	600	86	79	1
11:53:03 AM	600	86	79	1
11:53:04 AM	600	86	79	0
11:53:05 AM	600	86	79	1
11:53:06 AM	600	86	79	1
11:53:07 AM	600	86	79	1
11:53:08 AM	600	86	79	1
11:53:09 AM	600	86	79	0
11:53:10 AM	600	85	79	0
11:53:11 AM	600	86	79	1
11:53:12 AM	600	85	79	0
11:53:13 AM	600	86	79	0
11:53:14 AM	600	86	79	1
11:53:15 AM	600	86	79	0
11:53:16 AM	600	86	79	1
11:53:17 AM	600	85	79	0
11:53:18 AM	600	86	79	0
11:53:19 AM	600	86	79	0
11:53:20 AM	600	85	79	0
11:53:21 AM	600	86	79	1
11:53:22 AM	600	86	79	1
11:53:23 AM	600	85	79	0
11:53:23 AM	600	85	79	0
11:53:24 AM	600	85	79	0
11:53:25 AM	600	86	79	1
Averages ->	600	86	79	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1051

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
1:27:09 PM	600	500	500	0
1:27:10 PM	600	501	501	1
1:27:11 PM	600	500	500	0
1:27:12 PM	600	501	500	1
1:27:13 PM	600	500	500	1
1:27:14 PM	600	500	500	0
1:27:15 PM	600	501	500	1
1:27:16 PM	600	501	500	0
1:27:17 PM	600	501	501	1
1:27:18 PM	600	501	501	1
1:27:19 PM	600	501	501	1
1:27:20 PM	600	501	500	0
1:27:21 PM	600	501	501	0
1:27:22 PM	600	501	501	1
1:27:23 PM	600	501	501	1
1:27:24 PM	600	501	501	0
1:27:25 PM	600	501	501	1
1:27:26 PM	600	501	501	1
1:27:27 PM	600	501	501	1
1:27:28 PM	600	501	501	1
1:27:29 PM	600	501	501	1
1:27:30 PM	600	501	501	1
1:27:31 PM	600	501	500	0
1:27:32 PM	600	501	499	1
1:27:33 PM	600	501	498	0
1:27:34 PM	600	501	498	1
1:27:35 PM	600	501	497	0
1:27:36 PM	600	501	497	1
1:27:37 PM	600	502	496	1
1:27:38 PM	600	501	496	0
1:27:39 PM	600	501	495	1
1:27:40 PM	600	501	495	0
1:27:41 PM	600	502	495	1
1:27:42 PM	600	501	495	0
1:27:43 PM	600	501	495	1
1:27:43 PM	600	502	495	0
1:27:44 PM	600	502	495	0
1:27:45 PM	600	502	495	0
1:27:46 PM	600	502	495	1
1:27:47 PM	600	502	495	0
1:27:48 PM	600	501	495	1
1:27:49 PM	600	502	495	1
1:27:50 PM	600	502	495	1
1:27:51 PM	600	502	495	0
1:27:52 PM	600	502	495	0
1:27:53 PM	600	502	495	1
1:27:54 PM	600	502	496	1
1:27:55 PM	600	502	496	1
1:27:56 PM	600	502	496	1
1:27:57 PM	600	502	496	1
1:27:58 PM	600	502	496	1
1:27:59 PM	600	502	497	1
1:28:00 PM	600	502	496	1
1:28:01 PM	600	502	497	0
1:28:02 PM	600	502	497	1
1:28:03 PM	600	502	497	0
1:28:04 PM	600	502	497	0
1:28:05 PM	600	502	497	1
1:28:06 PM	600	502	497	1
1:28:07 PM	600	503	498	1
Averages ->	600	501	498	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1100

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
2:21:39 PM	600	506	502	1
2:21:40 PM	600	506	502	0
2:21:41 PM	600	506	502	1
2:21:42 PM	600	506	502	1
2:21:43 PM	600	506	502	0
2:21:44 PM	600	506	502	0
2:21:45 PM	600	506	501	1
2:21:46 PM	600	506	502	0
2:21:47 PM	600	506	502	1
2:21:48 PM	600	506	502	1
2:21:49 PM	600	506	502	0
2:21:50 PM	600	506	501	0
2:21:51 PM	600	506	502	1
2:21:52 PM	600	506	502	1
2:21:53 PM	600	506	502	1
2:21:54 PM	600	505	502	0
2:21:55 PM	600	505	502	1
2:21:56 PM	600	505	502	1
2:21:57 PM	600	505	502	0
2:21:58 PM	600	505	502	0
2:21:59 PM	600	505	502	0
2:22:00 PM	600	505	502	0
2:22:01 PM	600	505	502	1
2:22:02 PM	600	505	502	0
2:22:03 PM	600	505	501	0
2:22:04 PM	600	504	502	1
2:22:05 PM	600	504	502	1
2:22:06 PM	600	504	502	0
2:22:07 PM	600	504	502	1
2:22:08 PM	600	504	502	1
2:22:09 PM	600	504	502	1
2:22:10 PM	600	504	502	0
2:22:11 PM	600	504	502	0
2:22:12 PM	600	504	502	1
2:22:13 PM	600	504	502	0
2:22:14 PM	600	504	502	0
2:22:15 PM	600	504	502	1
2:22:16 PM	600	504	502	1
2:22:17 PM	600	504	502	1
2:22:18 PM	600	504	502	1
2:22:18 PM	600	504	502	1
2:22:19 PM	600	504	502	0
2:22:20 PM	600	505	502	0
2:22:21 PM	600	505	502	1
2:22:22 PM	600	505	502	0
2:22:23 PM	600	504	502	1
2:22:24 PM	600	505	502	1
2:22:25 PM	600	505	502	1
2:22:26 PM	600	505	502	1
2:22:27 PM	600	505	502	1
2:22:28 PM	600	505	502	1
2:22:29 PM	600	505	502	0
2:22:30 PM	600	505	502	0
2:22:31 PM	600	505	502	1
2:22:32 PM	600	505	502	0
2:22:33 PM	600	505	502	1
2:22:34 PM	600	506	502	0
2:22:35 PM	600	505	502	0
2:22:36 PM	600	506	502	0
2:22:37 PM	600	506	502	1
Averages ->	600	505	502	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1150

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
3:13:28 PM	600	505	503	1
3:13:29 PM	600	505	503	1
3:13:30 PM	600	505	504	0
3:13:31 PM	600	505	504	0
3:13:32 PM	600	505	504	1
3:13:33 PM	600	504	504	1
3:13:34 PM	600	504	503	1
3:13:35 PM	600	504	503	0
3:13:36 PM	600	504	503	1
3:13:37 PM	600	504	504	1
3:13:38 PM	600	504	503	0
3:13:39 PM	600	504	503	0
3:13:40 PM	600	504	503	0
3:13:41 PM	600	504	504	1
3:13:42 PM	600	504	503	0
3:13:43 PM	600	504	504	0
3:13:44 PM	600	504	503	1
3:13:45 PM	600	504	504	0
3:13:46 PM	600	504	503	1
3:13:47 PM	600	504	503	0
3:13:48 PM	600	504	503	1
3:13:49 PM	600	504	503	1
3:13:50 PM	600	504	503	1
3:13:51 PM	600	504	503	0
3:13:52 PM	600	504	504	0
3:13:53 PM	600	504	503	0
3:13:54 PM	600	504	503	0
3:13:55 PM	600	504	503	0
3:13:56 PM	600	504	503	1
3:13:57 PM	600	504	503	1
3:13:58 PM	600	504	503	1
3:13:59 PM	600	504	503	0
3:14:00 PM	600	504	503	0
3:14:01 PM	600	504	503	0
3:14:02 PM	600	504	503	1
3:14:03 PM	600	505	503	1
3:14:04 PM	600	505	503	0
3:14:05 PM	600	505	503	0
3:14:06 PM	600	505	503	0
3:14:07 PM	600	505	503	0
3:14:08 PM	600	505	503	0
3:14:09 PM	600	505	503	1
3:14:10 PM	600	505	503	0
3:14:11 PM	600	505	503	0
3:14:12 PM	600	505	503	0
3:14:13 PM	600	505	503	0
3:14:14 PM	600	505	503	1
3:14:15 PM	600	505	503	1
3:14:16 PM	600	505	503	0
3:14:17 PM	600	505	504	0
3:14:18 PM	600	506	504	0
3:14:19 PM	600	506	503	0
3:14:20 PM	600	506	504	0
3:14:21 PM	600	506	503	1
3:14:22 PM	600	505	504	1
3:14:23 PM	600	505	503	0
3:14:23 PM	600	505	503	1
3:14:24 PM	600	506	503	0
3:14:25 PM	600	505	503	0
3:14:26 PM	600	505	503	1
Averages ->	600	505	503	0
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1200

Date 5/9/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
4:08:30 PM	600	505	499	1
4:08:31 PM	600	505	499	1
4:08:32 PM	600	505	500	1
4:08:33 PM	600	505	499	1
4:08:34 PM	600	505	499	1
4:08:35 PM	600	505	500	1
4:08:36 PM	600	505	499	1
4:08:37 PM	600	504	500	1
4:08:38 PM	600	504	500	1
4:08:39 PM	600	504	500	1
4:08:40 PM	600	505	499	1
4:08:41 PM	600	504	499	1
4:08:42 PM	600	504	499	1
4:08:43 PM	600	504	499	1
4:08:44 PM	600	504	499	1
4:08:45 PM	600	505	499	1
4:08:46 PM	600	504	500	1
4:08:47 PM	600	504	500	1
4:08:48 PM	600	504	500	1
4:08:49 PM	600	504	499	1
4:08:50 PM	600	504	500	1
4:08:51 PM	600	505	500	1
4:08:52 PM	600	505	499	1
4:08:53 PM	600	505	499	1
4:08:54 PM	600	505	500	1
4:08:55 PM	600	504	499	1
4:08:56 PM	600	505	499	1
4:08:57 PM	600	505	500	1
4:08:58 PM	600	505	499	1
4:08:59 PM	600	505	500	1
4:09:00 PM	600	505	500	1
4:09:01 PM	600	505	500	1
4:09:02 PM	600	505	500	1
4:09:03 PM	600	505	499	1
4:09:04 PM	600	505	500	1
4:09:05 PM	600	505	499	1
4:09:06 PM	600	505	500	1
4:09:07 PM	600	505	500	1
4:09:08 PM	600	505	499	1
4:09:09 PM	600	505	499	1
4:09:10 PM	600	505	500	1
4:09:11 PM	600	505	500	1
4:09:12 PM	600	505	499	1
4:09:13 PM	600	505	500	1
4:09:14 PM	600	506	500	1
4:09:15 PM	600	505	499	1
4:09:16 PM	600	505	500	1
4:09:17 PM	600	505	499	1
4:09:18 PM	600	505	499	1
4:09:19 PM	600	505	500	1
4:09:20 PM	600	505	500	1
4:09:21 PM	600	505	500	1
4:09:22 PM	600	505	499	1
4:09:23 PM	600	505	500	1
4:09:23 PM	600	505	499	1
4:09:24 PM	600	505	500	1
4:09:25 PM	600	504	500	1
4:09:26 PM	600	505	500	1
4:09:27 PM	600	504	499	1
4:09:28 PM	600	504	499	1
Averages ->	600	505	499	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1201

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
8:26:39 AM	600	77	79	1
8:26:40 AM	600	77	78	1
8:26:41 AM	600	78	79	1
8:26:42 AM	600	77	79	1
8:26:43 AM	600	78	79	1
8:26:44 AM	600	77	79	1
8:26:45 AM	600	77	78	1
8:26:46 AM	600	77	79	1
8:26:47 AM	600	77	79	1
8:26:48 AM	600	78	79	1
8:26:49 AM	600	77	78	1
8:26:50 AM	600	78	79	1
8:26:51 AM	600	77	78	1
8:26:52 AM	600	77	78	1
8:26:53 AM	600	77	79	1
8:26:54 AM	600	77	79	1
8:26:55 AM	600	77	78	1
8:26:56 AM	600	77	79	1
8:26:57 AM	600	77	79	1
8:26:58 AM	600	77	79	1
8:26:59 AM	600	77	79	1
8:27:00 AM	600	77	79	1
8:27:01 AM	600	77	79	1
8:27:02 AM	600	77	78	1
8:27:03 AM	600	77	79	1
8:27:04 AM	600	77	79	0
8:27:05 AM	600	77	79	1
8:27:06 AM	600	77	79	1
8:27:07 AM	600	77	79	1
8:27:08 AM	600	77	79	0
8:27:09 AM	600	77	79	1
8:27:10 AM	600	77	78	1
8:27:11 AM	600	77	79	1
8:27:12 AM	600	77	79	1
8:27:13 AM	600	78	79	1
8:27:14 AM	600	78	79	1
8:27:15 AM	600	77	79	1
8:27:16 AM	600	77	78	0
8:27:17 AM	600	77	79	1
8:27:18 AM	600	77	79	1
8:27:19 AM	600	77	78	1
8:27:20 AM	600	77	79	1
8:27:21 AM	600	77	79	1
8:27:22 AM	600	77	79	1
8:27:23 AM	600	77	79	1
8:27:24 AM	600	77	79	1
8:27:25 AM	600	77	79	1
8:27:26 AM	600	77	79	1
8:27:27 AM	600	77	79	1
8:27:28 AM	600	77	79	1
8:27:29 AM	600	77	79	1
8:27:30 AM	600	77	79	1
8:27:31 AM	600	77	79	1
8:27:32 AM	600	77	79	1
8:27:33 AM	600	77	79	1
8:27:34 AM	600	77	79	1
8:27:35 AM	600	77	78	1
8:27:36 AM	600	77	79	1
8:27:37 AM	600	77	79	1
8:27:38 AM	600	77	79	1
Averages ->	600	77	79	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1250

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
9:27:19 AM	600	85	82	1
9:27:20 AM	600	85	81	1
9:27:21 AM	600	85	82	1
9:27:22 AM	600	85	82	1
9:27:23 AM	600	85	81	1
9:27:24 AM	600	85	81	1
9:27:25 AM	600	85	81	1
9:27:26 AM	600	85	81	1
9:27:27 AM	600	85	81	1
9:27:28 AM	600	85	82	1
9:27:29 AM	600	85	82	1
9:27:30 AM	600	85	82	1
9:27:31 AM	600	85	82	1
9:27:32 AM	600	85	81	1
9:27:33 AM	600	85	81	1
9:27:34 AM	600	85	82	1
9:27:35 AM	600	85	81	1
9:27:36 AM	600	85	81	1
9:27:37 AM	600	85	81	1
9:27:38 AM	600	85	82	1
9:27:38 AM	600	85	81	1
9:27:39 AM	600	85	81	1
9:27:40 AM	600	85	81	1
9:27:41 AM	600	85	81	1
9:27:42 AM	600	85	81	1
9:27:43 AM	600	85	81	1
9:27:44 AM	600	85	82	1
9:27:45 AM	600	85	81	1
9:27:46 AM	600	85	81	1
9:27:47 AM	600	85	81	1
9:27:48 AM	600	85	81	1
9:27:49 AM	600	85	81	1
9:27:50 AM	600	85	81	1
9:27:51 AM	600	85	81	1
9:27:52 AM	600	85	81	1
9:27:53 AM	600	85	81	1
9:27:54 AM	600	85	81	1
9:27:55 AM	600	85	81	1
9:27:56 AM	600	85	81	1
9:27:57 AM	600	85	82	1
9:27:58 AM	600	85	81	1
9:27:59 AM	600	85	82	0
9:28:00 AM	600	85	81	1
9:28:01 AM	600	85	81	1
9:28:02 AM	600	85	82	1
9:28:03 AM	600	85	81	1
9:28:04 AM	600	85	82	0
9:28:05 AM	600	85	81	1
9:28:06 AM	600	85	81	1
9:28:07 AM	600	85	81	1
9:28:08 AM	600	85	81	1
9:28:09 AM	600	85	81	1
9:28:10 AM	600	85	81	1
9:28:11 AM	600	85	81	0
9:28:12 AM	600	85	81	1
9:28:13 AM	600	85	81	1
9:28:14 AM	600	85	81	1
9:28:15 AM	600	85	81	1
9:28:16 AM	600	85	81	1
9:28:17 AM	600	85	81	1
Averages ->	600	85	81	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1300

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
10:18:41 AM	600	91	84	1
10:18:42 AM	600	91	84	1
10:18:43 AM	600	91	84	1
10:18:44 AM	600	91	84	1
10:18:45 AM	600	91	84	1
10:18:46 AM	600	91	84	1
10:18:47 AM	600	91	84	1
10:18:48 AM	600	91	84	1
10:18:49 AM	600	91	84	1
10:18:50 AM	600	91	84	1
10:18:51 AM	600	91	84	1
10:18:52 AM	600	91	84	1
10:18:53 AM	600	91	84	1
10:18:54 AM	600	91	84	1
10:18:55 AM	600	91	84	1
10:18:56 AM	600	91	84	1
10:18:57 AM	600	91	84	1
10:18:58 AM	600	91	84	1
10:18:59 AM	600	91	84	1
10:19:00 AM	600	91	84	1
10:19:01 AM	600	91	84	1
10:19:01 AM	600	91	84	1
10:19:02 AM	600	91	84	1
10:19:03 AM	600	91	84	1
10:19:04 AM	600	91	84	1
10:19:05 AM	600	91	84	1
10:19:06 AM	600	91	84	1
10:19:07 AM	600	91	84	1
10:19:08 AM	600	91	84	1
10:19:09 AM	600	91	84	1
10:19:10 AM	600	91	84	1
10:19:11 AM	600	91	84	1
10:19:12 AM	600	91	84	1
10:19:13 AM	600	91	84	1
10:19:14 AM	600	91	84	1
10:19:15 AM	600	91	84	1
10:19:16 AM	600	91	84	1
10:19:17 AM	600	91	84	1
10:19:18 AM	600	91	84	1
10:19:19 AM	600	91	84	1
10:19:20 AM	600	91	84	1
10:19:21 AM	600	91	84	1
10:19:22 AM	600	91	84	1
10:19:23 AM	600	91	84	1
10:19:24 AM	600	91	84	1
10:19:25 AM	600	91	84	1
10:19:26 AM	600	91	84	1
10:19:27 AM	600	91	84	1
10:19:28 AM	600	91	84	1
10:19:29 AM	600	91	84	1
10:19:30 AM	600	91	84	1
10:19:31 AM	600	91	84	1
10:19:32 AM	600	91	84	1
10:19:33 AM	600	91	84	1
10:19:34 AM	600	91	84	1
10:19:35 AM	600	91	84	1
10:19:36 AM	600	91	84	1
10:19:37 AM	600	91	84	1
10:19:38 AM	600	91	84	1
10:19:39 AM	600	91	84	1
Averages ->	600	91	84	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1350

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
11:28:39 AM	600	88	84	1
11:28:40 AM	600	88	83	0
11:28:41 AM	600	88	84	1
11:28:42 AM	600	88	83	0
11:28:43 AM	600	88	84	1
11:28:44 AM	600	88	84	1
11:28:45 AM	600	88	83	0
11:28:46 AM	600	88	83	0
11:28:47 AM	600	88	84	0
11:28:48 AM	600	88	83	1
11:28:49 AM	600	88	83	0
11:28:50 AM	600	88	84	0
11:28:51 AM	600	88	84	0
11:28:52 AM	600	88	83	1
11:28:53 AM	600	88	83	1
11:28:54 AM	600	88	83	1
11:28:55 AM	600	88	83	0
11:28:56 AM	600	88	84	0
11:28:57 AM	600	88	83	0
11:28:58 AM	600	88	83	0
11:28:59 AM	600	88	84	1
11:29:00 AM	600	88	83	0
11:29:01 AM	600	88	83	1
11:29:02 AM	600	88	83	0
11:29:03 AM	600	88	84	1
11:29:04 AM	600	88	83	1
11:29:05 AM	600	88	84	1
11:29:06 AM	600	88	84	1
11:29:07 AM	600	88	84	1
11:29:08 AM	600	88	84	0
11:29:09 AM	600	88	84	0
11:29:10 AM	600	88	83	0
11:29:11 AM	600	88	83	0
11:29:12 AM	600	88	83	1
11:29:13 AM	600	88	83	1
11:29:14 AM	600	88	84	1
11:29:15 AM	600	88	83	0
11:29:16 AM	600	88	83	1
11:29:17 AM	600	88	84	1
11:29:18 AM	600	88	83	1
11:29:19 AM	600	88	84	1
11:29:20 AM	600	88	83	1
11:29:21 AM	600	88	83	0
11:29:22 AM	600	88	83	0
11:29:23 AM	600	88	83	1
11:29:24 AM	600	88	83	0
11:29:24 AM	600	88	83	0
11:29:25 AM	600	88	83	1
11:29:26 AM	600	88	83	1
11:29:27 AM	600	88	83	0
11:29:28 AM	600	88	83	1
11:29:29 AM	600	88	83	0
11:29:30 AM	600	88	84	1
11:29:31 AM	600	88	83	1
11:29:32 AM	600	88	83	1
11:29:33 AM	600	88	83	1
11:29:34 AM	600	88	83	1
11:29:35 AM	600	88	83	0
11:29:36 AM	600	88	83	1
11:29:37 AM	600	88	83	1
Averages ->	600	88	83	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1351

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
1:32:39 PM	600	505	500	1
1:32:40 PM	600	505	500	1
1:32:41 PM	600	505	500	1
1:32:42 PM	600	505	500	1
1:32:43 PM	600	505	500	1
1:32:44 PM	600	505	500	1
1:32:45 PM	600	505	500	1
1:32:46 PM	600	505	500	1
1:32:47 PM	600	505	500	1
1:32:48 PM	600	505	500	1
1:32:49 PM	600	505	500	1
1:32:50 PM	600	505	500	1
1:32:51 PM	600	505	500	1
1:32:52 PM	600	505	500	1
1:32:53 PM	600	505	500	1
1:32:54 PM	600	504	500	1
1:32:55 PM	600	505	500	1
1:32:56 PM	600	505	500	1
1:32:57 PM	600	504	500	1
1:32:58 PM	600	504	500	1
1:32:59 PM	600	504	500	1
1:33:00 PM	600	504	500	1
1:33:01 PM	600	504	500	1
1:33:02 PM	600	504	500	1
1:33:03 PM	600	504	500	1
1:33:04 PM	600	504	500	1
1:33:05 PM	600	505	501	1
1:33:06 PM	600	504	500	1
1:33:07 PM	600	504	500	1
1:33:08 PM	600	504	500	1
1:33:09 PM	600	504	500	1
1:33:10 PM	600	504	500	1
1:33:11 PM	600	504	500	1
1:33:11 PM	600	505	500	1
1:33:12 PM	600	504	500	1
1:33:13 PM	600	504	500	1
1:33:14 PM	600	504	500	1
1:33:15 PM	600	504	500	1
1:33:16 PM	600	504	500	1
1:33:17 PM	600	504	500	1
1:33:18 PM	600	505	500	1
1:33:19 PM	600	505	500	1
1:33:20 PM	600	505	500	1
1:33:21 PM	600	505	500	1
1:33:22 PM	600	505	501	1
1:33:23 PM	600	505	501	1
1:33:24 PM	600	505	500	1
1:33:25 PM	600	505	500	1
1:33:26 PM	600	505	501	1
1:33:27 PM	600	505	501	1
1:33:28 PM	600	505	500	1
1:33:29 PM	600	505	500	1
1:33:30 PM	600	505	500	1
1:33:31 PM	600	505	500	1
1:33:32 PM	600	505	501	1
1:33:33 PM	600	505	501	1
1:33:34 PM	600	505	500	1
1:33:35 PM	600	505	501	1
1:33:36 PM	600	505	500	1
1:33:37 PM	600	505	501	1
Averages ->	600	505	500	1
			Maximum ->	1

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1400

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
2:29:55 PM	600	504	499	1
2:29:56 PM	600	504	500	2
2:29:57 PM	600	503	499	1
2:29:58 PM	600	504	500	1
2:29:59 PM	600	504	499	2
2:30:00 PM	600	504	499	1
2:30:01 PM	600	504	500	1
2:30:02 PM	600	504	500	2
2:30:03 PM	600	504	500	2
2:30:04 PM	600	504	499	2
2:30:05 PM	600	504	499	1
2:30:06 PM	600	504	500	1
2:30:07 PM	600	504	500	1
2:30:08 PM	600	504	500	1
2:30:09 PM	600	504	500	1
2:30:10 PM	600	504	499	1
2:30:11 PM	600	504	499	1
2:30:12 PM	600	505	499	2
2:30:13 PM	600	505	500	1
2:30:14 PM	600	505	500	2
2:30:15 PM	600	505	499	1
2:30:16 PM	600	505	500	1
2:30:17 PM	600	505	500	2
2:30:18 PM	600	505	499	1
2:30:19 PM	600	505	500	1
2:30:20 PM	600	505	500	2
2:30:21 PM	600	505	499	1
2:30:22 PM	600	505	500	1
2:30:23 PM	600	505	500	1
2:30:24 PM	600	506	500	3
2:30:25 PM	600	505	499	2
2:30:26 PM	600	505	500	1
2:30:27 PM	600	506	500	1
2:30:28 PM	600	506	500	2
2:30:29 PM	600	505	500	1
2:30:30 PM	600	505	500	1
2:30:31 PM	600	506	500	2
2:30:32 PM	600	505	500	2
2:30:33 PM	600	505	500	2
2:30:34 PM	600	505	500	1
2:30:35 PM	600	505	500	1
2:30:36 PM	600	505	500	2
2:30:37 PM	600	504	500	2
2:30:38 PM	600	504	500	2
2:30:39 PM	600	505	500	2
2:30:40 PM	600	505	500	1
2:30:41 PM	600	504	500	1
2:30:42 PM	600	504	500	2
2:30:43 PM	600	504	499	1
2:30:44 PM	600	504	500	0
2:30:45 PM	600	504	500	1
2:30:46 PM	600	504	500	1
2:30:47 PM	600	504	500	2
2:30:48 PM	600	504	499	1
2:30:49 PM	600	504	500	1
2:30:50 PM	600	503	500	1
2:30:51 PM	600	504	500	1
2:30:52 PM	600	504	500	2
2:30:53 PM	600	504	500	1
2:30:53 PM	600	504	500	1
Averages ->	600	505	500	1
			Maximum ->	3

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1450

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
3:23:46 PM	600	505	502	0
3:23:47 PM	600	505	501	1
3:23:48 PM	600	505	502	1
3:23:49 PM	600	505	501	1
3:23:50 PM	600	505	502	1
3:23:51 PM	600	505	502	1
3:23:52 PM	600	505	502	1
3:23:53 PM	600	504	502	1
3:23:54 PM	600	505	502	1
3:23:55 PM	600	504	502	1
3:23:56 PM	600	504	502	1
3:23:57 PM	600	504	501	2
3:23:58 PM	600	504	502	1
3:23:59 PM	600	504	502	1
3:24:00 PM	600	504	501	1
3:24:01 PM	600	504	501	1
3:24:02 PM	600	504	502	1
3:24:03 PM	600	504	502	1
3:24:03 PM	600	504	502	1
3:24:04 PM	600	504	501	1
3:24:05 PM	600	504	501	1
3:24:06 PM	600	504	501	1
3:24:07 PM	600	504	502	0
3:24:08 PM	600	504	502	1
3:24:09 PM	600	505	502	1
3:24:10 PM	600	504	502	1
3:24:11 PM	600	505	502	0
3:24:12 PM	600	505	502	1
3:24:13 PM	600	505	502	1
3:24:14 PM	600	505	502	1
3:24:15 PM	600	505	502	1
3:24:16 PM	600	505	502	1
3:24:17 PM	600	505	502	1
3:24:18 PM	600	505	502	1
3:24:19 PM	600	505	502	1
3:24:20 PM	600	505	502	1
3:24:21 PM	600	505	502	1
3:24:22 PM	600	505	502	1
3:24:23 PM	600	505	502	1
3:24:24 PM	600	506	502	1
3:24:25 PM	600	506	502	1
3:24:26 PM	600	505	502	1
3:24:27 PM	600	505	502	1
3:24:28 PM	600	505	502	1
3:24:29 PM	600	505	502	1
3:24:30 PM	600	506	502	1
3:24:31 PM	600	505	502	1
3:24:32 PM	600	505	502	1
3:24:33 PM	600	505	502	0
3:24:34 PM	600	506	502	1
3:24:35 PM	600	505	502	1
3:24:36 PM	600	505	502	1
3:24:37 PM	600	505	502	1
3:24:38 PM	600	505	502	1
3:24:39 PM	600	505	502	1
3:24:40 PM	600	505	502	1
3:24:41 PM	600	505	502	1
3:24:42 PM	600	504	502	1
3:24:43 PM	600	505	502	0
3:24:44 PM	600	504	502	1
Averages ->	600	505	502	1
			Maximum ->	2

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1500

Date 5/10/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
4:18:03 PM	600	505	502	2
4:18:04 PM	600	505	501	2
4:18:05 PM	600	505	501	2
4:18:06 PM	600	505	502	2
4:18:07 PM	600	505	502	2
4:18:08 PM	600	505	501	2
4:18:09 PM	600	505	502	2
4:18:10 PM	600	505	503	2
4:18:11 PM	600	505	502	2
4:18:12 PM	600	506	501	2
4:18:13 PM	600	505	501	2
4:18:14 PM	600	505	500	2
4:18:15 PM	600	505	501	1
4:18:16 PM	600	505	503	2
4:18:17 PM	600	505	503	2
4:18:18 PM	600	504	502	2
4:18:19 PM	600	504	502	2
4:18:20 PM	600	504	502	2
4:18:21 PM	600	504	502	2
4:18:22 PM	600	504	502	2
4:18:23 PM	600	505	501	2
4:18:24 PM	600	505	502	2
4:18:25 PM	600	505	502	2
4:18:26 PM	600	505	502	2
4:18:27 PM	600	505	501	2
4:18:28 PM	600	505	501	2
4:18:29 PM	600	505	502	2
4:18:30 PM	600	505	502	2
4:18:31 PM	600	505	501	2
4:18:32 PM	600	505	502	2
4:18:33 PM	600	505	502	2
4:18:34 PM	600	505	501	2
4:18:35 PM	600	504	502	2
4:18:36 PM	600	504	502	1
4:18:37 PM	600	504	501	2
4:18:38 PM	600	504	501	2
4:18:39 PM	600	504	502	2
4:18:40 PM	600	504	501	2
4:18:41 PM	600	504	501	2
4:18:42 PM	600	504	502	2
4:18:43 PM	600	504	501	2
4:18:44 PM	600	503	501	2
4:18:45 PM	600	503	501	2
4:18:46 PM	600	503	501	2
4:18:47 PM	600	503	502	2
4:18:48 PM	600	503	501	2
4:18:49 PM	600	503	502	2
4:18:50 PM	600	503	502	2
4:18:51 PM	600	503	502	2
4:18:52 PM	600	503	502	2
4:18:52 PM	600	503	501	2
4:18:53 PM	600	503	502	2
4:18:54 PM	600	503	502	2
4:18:55 PM	600	503	501	2
4:18:56 PM	600	503	502	2
4:18:57 PM	600	503	501	2
4:18:58 PM	600	503	501	2
4:18:59 PM	600	503	502	2
4:19:00 PM	600	503	502	2
4:19:01 PM	600	503	502	2
Averages ->	600	504	502	2
			Maximum ->	2

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1501

Date 5/11/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
8:18:51 AM	600	78	81	1
8:18:52 AM	600	78	80	1
8:18:53 AM	600	78	80	1
8:18:54 AM	600	78	81	1
8:18:55 AM	600	78	80	1
8:18:56 AM	600	78	80	2
8:18:57 AM	600	78	80	1
8:18:58 AM	600	78	80	1
8:18:59 AM	600	78	80	1
8:19:00 AM	600	78	80	1
8:19:01 AM	600	78	80	1
8:19:02 AM	600	78	80	1
8:19:03 AM	600	78	80	1
8:19:04 AM	600	78	80	1
8:19:05 AM	600	78	80	1
8:19:06 AM	600	78	80	1
8:19:07 AM	600	78	80	2
8:19:08 AM	600	78	80	2
8:19:09 AM	600	78	80	1
8:19:10 AM	600	78	80	1
8:19:11 AM	600	78	80	1
8:19:12 AM	600	78	80	1
8:19:13 AM	600	78	80	1
8:19:14 AM	600	78	80	1
8:19:15 AM	600	78	80	1
8:19:16 AM	600	78	80	1
8:19:17 AM	600	78	80	1
8:19:18 AM	600	78	80	1
8:19:19 AM	600	78	80	1
8:19:20 AM	600	78	80	1
8:19:21 AM	600	78	80	1
8:19:22 AM	600	78	80	1
8:19:23 AM	600	78	80	1
8:19:24 AM	600	77	80	1
8:19:25 AM	600	78	80	1
8:19:26 AM	600	78	80	1
8:19:27 AM	600	78	80	1
8:19:28 AM	600	78	80	1
8:19:29 AM	600	78	80	1
8:19:30 AM	600	77	80	1
8:19:31 AM	600	78	79	1
8:19:32 AM	600	78	80	1
8:19:33 AM	600	77	80	1
8:19:34 AM	600	78	80	1
8:19:35 AM	600	78	80	1
8:19:36 AM	600	78	80	1
8:19:37 AM	600	78	80	1
8:19:38 AM	600	78	80	1
8:19:39 AM	600	78	80	1
8:19:40 AM	600	77	80	1
8:19:41 AM	600	78	80	1
8:19:42 AM	600	78	80	1
8:19:43 AM	600	78	80	1
8:19:44 AM	600	78	80	1
8:19:44 AM	600	78	80	2
8:19:45 AM	600	77	80	1
8:19:46 AM	600	78	80	1
8:19:47 AM	600	78	80	1
8:19:48 AM	600	78	80	1
8:19:49 AM	600	78	80	1
Averages ->	600	78	80	1
			Maximum ->	2

Yarmouth Research and Technology, LLC

Valve Description: Flexitallic 308 Style Packing

Cycle Number: 1510

Date 5/11/2016

Time (EST)	Pressure (psig)	Bonnet Temp. (deg. F)	Body Temp. (deg. F)	Leakage (PPMv)
10:18:52 AM	600	74	75	1
10:18:53 AM	600	74	75	1
10:18:54 AM	600	74	75	1
10:18:55 AM	600	74	75	1
10:18:56 AM	600	74	75	1
10:18:57 AM	600	74	75	1
10:18:58 AM	600	74	75	0
10:18:59 AM	600	74	75	1
10:19:00 AM	600	74	75	1
10:19:01 AM	600	74	75	1
10:19:02 AM	600	74	75	1
10:19:03 AM	600	74	75	1
10:19:04 AM	600	74	75	1
10:19:05 AM	600	74	75	1
10:19:06 AM	600	74	75	0
10:19:07 AM	600	74	75	1
10:19:08 AM	600	74	75	0
10:19:09 AM	600	74	75	1
10:19:10 AM	600	74	75	0
10:19:11 AM	600	74	75	1
10:19:12 AM	600	74	75	1
10:19:13 AM	600	74	75	1
10:19:14 AM	600	74	75	1
10:19:15 AM	600	74	75	1
10:19:16 AM	600	74	75	1
10:19:17 AM	600	74	75	1
10:19:18 AM	600	74	75	1
10:19:19 AM	600	74	75	1
10:19:20 AM	600	74	75	1
10:19:21 AM	600	74	75	1
10:19:22 AM	600	74	75	1
10:19:23 AM	600	74	75	1
10:19:24 AM	600	74	75	1
10:19:25 AM	600	74	75	0
10:19:26 AM	600	74	75	1
10:19:27 AM	600	74	75	0
10:19:28 AM	600	74	75	1
10:19:29 AM	600	74	75	0
10:19:30 AM	600	74	75	0
10:19:31 AM	600	74	75	1
10:19:32 AM	600	74	75	1
10:19:33 AM	600	74	75	0
10:19:34 AM	600	74	75	1
10:19:35 AM	600	74	75	1
10:19:35 AM	600	74	75	1
10:19:36 AM	600	74	75	1
10:19:37 AM	600	74	75	0
10:19:38 AM	600	74	75	1
10:19:39 AM	600	74	75	1
10:19:40 AM	600	74	75	1
10:19:41 AM	600	74	75	1
10:19:42 AM	600	74	75	1
10:19:43 AM	600	74	75	1
10:19:44 AM	600	74	75	1
10:19:45 AM	600	74	75	1
10:19:46 AM	600	74	75	1
10:19:47 AM	600	74	75	1
10:19:48 AM	600	74	75	1
10:19:49 AM	600	74	75	1
10:19:50 AM	600	74	75	1
Averages ->	600	74	75	1
			Maximum ->	1