

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 1.5-1500-1, vent outlet closing device

Date Completed: 5/4/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

1.5 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	10	288
TEST 2	10	288 AVERAGE
TEST 3	10	288 = 230 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 2-1500-1, vent outlet closing device

Date Completed: 5/4/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

2 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	5	228
TEST 2	5	228 AVERAGE
TEST 3	5	228 = 182 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 2.5-1500-1, vent outlet closing device

Date Completed: 5/4/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

2.5 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	3.5	210
TEST 2	3.5	210 AVERAGE
TEST 3	3.5	210 = 168 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 3-1500-1, vent outlet closing device

Date Completed: 5/4/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

3 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	5	336
TEST 2	5	336 AVERAGE
TEST 3	5	336 = 269 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 4-1500-1, vent outlet closing device

Date Completed: 5/4/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

4 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	5	330
TEST 2	5	330 AVERAGE
TEST 3	5	330 = 264 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 5-1500-1, vent outlet closing device

Date Completed: 5/6/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

5 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	5	486
TEST 2	5	486 AVERAGE
TEST 3	5	486 = 389 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 6-1500-1, vent outlet closing device

Date Completed: 5/6/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

6 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	7.5	828
TEST 2	7.5	810 AVERAGE
TEST 3	7.5	828 = 658 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 8-1500-1, vent outlet closing device

Date Completed: 8/14/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

8 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	14	2048
TEST 2	14	2048 AVERAGE
TEST 3	14	2048= 1638 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 10-1500-1, vent outlet closing device

Date Completed: 8/14/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

10 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	3.5	1443
TEST 2	3.5	1443 AVERAGE
TEST 3	3.5	1443 = 1154@ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 12-1500-1, vent outlet closing device

Date Completed: 8/14/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

12 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	8	3182
TEST 2	8	3182 AVERAGE
TEST 3	8	3182 = 2546 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 14-1500FSG-1, vent outlet closing device

Date Completed: 3/9/15

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

14 INCH	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	10	3996
TEST 2	10.5	4070 AVERAGE
TEST 3	10.5	4018 = 3222 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact fpm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 16-1500FSG-1, vent outlet closing device

Date Completed: 4/30/20

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

16 INCH	InWC	FPM TO PULL FLOAT CLOSED
TEST 1	11	6,570
TEST 2	11	6,570 AVERAGE
TEST 3	11	6,570 = 5256 @ 80%

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 18-1500-1, vent outlet closing device

Date Completed: 10/18/2022

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	5	6142
TEST 2	5	6142
TEST 3	5	6142

NOTES: The test apparatus reached it's maximum flow capacity at this CFM, no sign of float movement was observed.

Vacuum Test Report

Purpose of test: To determine the exact cfm/flow rate of air, for each type and size, of vent outlet closing device's float, is actuated by vacuum, and closes the valve.

Manufacturer: Robert H. Wager Company, Inc.

Test Specimen: 20-1500-1, vent outlet closing device

Date Completed: 10/18/2022

Test Apparatus: -Vacuum Test Fixture, Fan/Air Measuring Station/Fluke meter/ Magnehelic Gauge.

Test Specification: WI-Vacuum Test-01

Test Procedure: Apply prepared test specimen(s) to the vacuum test fixture and securely clamp in place. Zero out meter, on the flow rate setting, to begin test. Turn on fan at low speed. Gradually increase speed until float lifts and valve closes off airflow. Record the flow rate at which the float was lifted and closed off the flow (is visibly inspected on Fluke meter). Run the test 3 times and take an average. The valve will be rate rated at 80% of the final value.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	5	6142
TEST 2	5	6142
TEST 3	5	6142

NOTES: The test apparatus reached it's maximum flow capacity at this CFM, no sign of float movement was observed.