

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: 1.5-1700, vent outlet closing device

Date Completed: October 6th, 2014

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	5.2	153
TEST 2	5.2	156
TEST 3	5.2	154

154.3 CFM AVERAGE @ 80% = 123.46 CFM

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: 2-1700, 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.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	3	144
TEST 2	3	144 AVERAGE
TEST 3	3	144= 115 @ 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: 2.5-1700, 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.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	2.5	246
TEST 2	2.5	246 AVERAGE
TEST 3	2.5	246= 197 @ 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: 3-1700, vent outlet closing device

Date Completed: 5/4/16

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	2.5	300
TEST 2	2.5	300 AVERAGE
TEST 3	2.5	300= 240 @ 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: 4-1700, 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.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	2.5	396
TEST 2	2.5	396 AVERAGE
TEST 3	2.5	396= 317 @ 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: 5-1700, vent outlet closing device

Date Completed: 6/1/15

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.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	2	378
TEST 2	2	378 AVERAGE
TEST 3	2	378= 302 @ 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: 6-1700, vent outlet closing device

Date Completed: 5/4/16

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	2	648
TEST 2	2	648 AVERAGE
TEST 3	2	648= 518.4 @ 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: 8-1700, vent outlet closing device

Date Completed: 11/17/15

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.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	2	1084
TEST 2	2	1084 AVERAGE
TEST 3	2	1084= 867.2 @ 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: 10-1700, vent outlet closing device

Date Completed: 11/17/15

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.

	InWC	CFM TO PULL FLOAT CLOSED
TEST 1	2	1554
TEST 2	2	1554 AVERAGE
TEST 3	2	1554= 1243 @ 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: 12-1700, vent outlet closing device

Date Completed: 5/6/16

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	4168
TEST 2	5	4168 AVERAGE
TEST 3	5	4168= 3334 @ 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: 14-1700, vent outlet closing device

Date Completed: 5/6/16

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	7	6216
TEST 2	7	6216 AVERAGE
TEST 3	7	6216= 4973 @ 80%

NOTE: 14" and 16" use same body, test results are from testing apparatus at max output.

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: 16-1700, vent outlet closing device

Date Completed: 5/6/16

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	7	6216
TEST 2	7	6216 AVERAGE
TEST 3	7	6216= 4973 @ 80%

NOTE: 14" and 16" use same body, test results are from testing apparatus at max output.