



TEST REPORT

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Report Number: 1757-22036

Project Number: 37450

Report Issued: April 22nd, 2022

Client: Schier Products
6455 Woodland Dr.
Shawnee, KS 66218

Contact: Ben Brown

Source of Samples: Samples were manufactured at the client's facility in Shawnee, KS and was witnessed tested by Dale E. Holloway of IAPMO R&T Lab on April 21st, 2022. Samples are manufactured in good condition.

Date of Testing: April 21st, 2022

Sample Description: HDPE Grease Interceptor.

Model: **GB-50 (75 gpm)**

Refer to the manufacturer's drawings and installation instructions for more detailed measurements and information.

Scope of Testing: The above grease interceptor was witnessed tested to meet the requirements of ASME A112.14.3-2018 "Hydromechanical Grease Interceptors", and CSA B481.0 and B481.1-12 "Grease Interceptors".

Conclusion: The **GB-50 (75 gpm) Grease Interceptor DID COMPLY** with the requirements of ASME A112.14.3-2018 "Hydromechanical Grease Interceptors" and CSA B481.0 and B481.1-12 "Grease Interceptors".

By the signature below, I certify that all the testing and preparation for this report was performed under direct supervision of IAPMO R&T Lab, unless otherwise stated.

Witness tested and reported by,

Dale E. Holloway, Regional Technical Manager
IAPMO R&T Lab

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The statement of compliance is based on the test results compared to the standard specifications without considering measurement uncertainty. The observations, test results and conclusions in this report apply only to the specific samples tested and are not indicative of the quality or performance of similar or identical products. Only the Client shown above is authorized to copy or distribute the report, and then only in its entirety. If presented with a copy of a Test Report without the IAPMO R&T Lab watermark background, contact IAPMO R&T Lab for verification. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service is prohibited absent the advance written consent of IAPMO R&T Lab.

Primary Standards:**ASME A112.14.3-2018**

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CSA B481.0-12

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CSA B481.1-12

- 4. General Requirements
- 5. Test Method
- 6. Markings

Test Results: All test and evaluations were conducted per the written procedures in the specific standards.

ASME A112.14.3-2018**2 General Requirements:****2.1 Rating: COMPLIED**

The flow rate and grease retention capacity of each grease interceptor was determined by application of the parameter of this Standard.

The unit tested was a "Type D" - Units without an external flow control, indirectly connected.

2.2 Inlet and Outlet Connections: COMPLIED

Inlet and Outlet connections - Hubless coupling is compliant with ASTM A888

2.3 Flow Controls and/or Vents: NOT APPLICABLE

2.3.1 Flow control and Vents or air intakes were not used.

2.3.2 When a flow control and/or vent is used during testing for rating a grease interceptor, the rating of the unit did not exceed the maximum flow through the flow control.

The manufacturer's literature reflected that the rating was achieved with the flow control and vent attached, and that the flow control and vent was installed with the unit.

Testing

3.1 Construction of Test Equipment:

3.1.1 Test Sink: **COMPLIED**

Length - 8' (8 ft)
Width - 2' (2 ft)
Depth - 12.5" (12.5 inches)
Corrosion Resistant Material - stainless steel (yes)
Number of compartments - 2 (2)
Structurally reinforced - yes (yes)
Supported on legs - yes (yes)
Rim height with legs - 3' (3 ft)
Legs structurally supported - yes (yes)

3.1.1.1 Sink Waste Connections: **COMPLIED**

Each sink compartment was fitted with a 1-½" (up to 50 gpm) or 2" (greater than 50 gpm) standard sink waste connection with flange, crossbars, slip joint tailpiece, and locknut.

The waste connections were located on opposite sides of the center partition in the corner formed by the side of the sink and the center partition.

3.1.1.2 Water Level Gauges: **COMPLIED**

Each compartment was equipped with a gauge connection and a water level gauge with gauge glass.

Each gauge connection was fitted into the bottom of a sink compartment and in close proximity to the waste outlet.

Each gauge was mounted on the outside of the sink, adjacent to its respective gauge connection, and extended diagonally upward from the bottom center to the top outside corners.

The gauges were calibrated to read directly the number of inches of water in the sink compartments above the sink waste flange.

3.1.1.3 Movable Sink Partitions: **COMPLIED**

Each compartment of the sink was fitted with a movable partition, making it possible to regulate the size of the compartment to any desired capacity.

3.1.2 Skimming Tank: **COMPLIED**

The skimming tank was rectangular in shape and open at the top.

Tank Length - 12'
Tank Width - 36"
Tank Depth - 28"

Tank was made of corrosion resistant material - yes (yes)

Tank was structurally reinforced - yes (yes)

Waste outlet diameter - 4" (4 inches)

The waste outlet was connected to the bottom of the tank at one end and trapped to retain approximately 18 inches of water in the tank.

The tank provided a stationary baffle located approximately 4 ft. from the end of the tank receiving the discharge from the interceptor. This baffle extended the width of the tank and to within 4" of the bottom of the tank.

3.2 Installation of Testing Equipment:

3.2.1 Direct Connection Test Types A, B, and C: **NOT APPLICABLE**

3.2.2 Indirect Connection Test Type D:

Findings- The "GB-50" was a Type D unit.

3.2.2.1 Sink and Interceptor Locations: **COMPLIED**

The sink was located on the floor with the sink rim 3 ft above the floor level and 13 feet above the outside bottom of the grease interceptor being tested.

3.2.2.2 Floor Sink and Location: **COMPLIED**

A 6 in. deep floor sink to receive the indirect waste discharge from the test sink shall be located in the floor supporting the test sink. The rim of the floor sink shall be located at floor level. The outlet of the floor sink shall be sized to handle the test flow rate, and shall not be less than 3 in.

3.2.2.3 Skimming Tank Location: **COMPLIED**

The skimming tank was located low enough, with respect to the interceptor, for the discharge piping from the interceptor to clear the tank rim by not less than 3 inches.

3.2.2.4 Installation of Waste Piping: **COMPLIED**

- (a) *Sink Connections*- The sink outlet waste connection from each sink compartment was 1-½ inches in size and fitted with a quarter-turn ball quick-opening valve.
- (b) *Combined Horizontal Waste Piping*- The combined horizontal waste piping into which the sink outlets connect shall be 3", installed with the center line 11 inches below the bottom of the sink and properly hung and braced from the sink reinforcement and supports. The waste pipe shall connect to a *single 3" valve that shall serve to regulate the total discharge flow rate. The pipe connected to the valve outlet shall turn downward 90 deg and shall terminate 1" above the rim and at the centerline of the floor sink.
- (c) *Floor Sink to Interceptor Piping*- A trap fitting shall be connected to the outlet of the floor sink, of a size appropriate for the flow rate tested, but not less than 3". Horizontal piping of the same size and 3 ft in length with a vent shall be connected between the floor sink elbow and the vertical waste riser, which shall extend downward to connect to the grease interceptor inlet by means of an elbow and a short horizontal nipple.

- (d) *Interceptor Discharge*- The discharge pipe from the grease interceptor outlet to the skimming tank shall be the same size as the inlet pipe. It shall have a minimum pitch of 1/8"/ft and shall be provided with a 2" vent properly located to prevent siphoning of the interceptor.
- (e) *Interceptor Inlet Connection*- If the inlet and or outlet connections of the interceptor are larger than the inlet pipe necessary to provide the required flow rate, reducing couplings shall be permitted to be used.

3.3 Preliminary Test Procedure:

3.3.1 Media Analysis: **COMPLIED**

pH of water - 6.4 (6.0 to 8.0)

Specific Gravity of Lard - 0.875 at 150°F (0.875 ± 0.005 at 150°F)

Viscosity in Seconds Saybolt Universal @ 150°F

3.3.2 Establishing Sink Compartment Capacity: **COMPLIED**

Capacity of compartment 1- 90 gallons (1.2 x flow rate of interceptor)

Capacity of compartment 2- 90 gallons (1.2 x flow rate of interceptor)

3.3.3 Establishing Vol. of Incremental Discharge: (based on 10" water above sink outlet): **COMPLIED**

Compartment 1 Discharge - 75 gallons (equal to flow rate of interceptor)

Compartment 2 Discharge - 75 gallons (equal to flow rate of interceptor)

3.3.4 Computation of Flow Rate: **FOLLOWED**

The flow rate from the sink was computed by timing the rate of drainage of the first 9 ½" of water from the sink compartment, measured from the 10" mark to the datum line ½" above the sink outlet flange.

3.3.4.1 Check Flow Rate Tests: **COMPLIED**

Test number	Compartment	Time (sec)	gpm	Based on Time
1	1	78	54.8	-
2	1	82	52.1	-
3	1	87	49.1	-
			Avg: 52.0	
1	2	75	57.0	-
2	2	76	56.3	-
3	2	76	56.3	-
			Avg: 56.5	
1	1 & 2 simultaneous	110	77.7	Compartment 1
2	1 & 2 simultaneous	113	75.7	Compartment 1
3	1 & 2 simultaneous	112	76.3	Compartment 1
			Avg: 76.6	
1	1 & 2 simultaneous	110	77.7	Compartment 2
2	1 & 2 simultaneous	109	78.4	Compartment 2
3	1 & 2 simultaneous	109	78.4	Compartment 2
			Avg: 78.2	

For the above simultaneous flow rates, the time for total discharge shall be between 108.6 seconds and 114 seconds.

3.3.4.2 Calibrated Drainage Flow Rates: **COMPLIED**

Proposed flow rate of Interceptor being tested - 75 gpm.

The average of the above calibrated flow rates for simultaneous discharge was equal and didn't exceed by not more than 5% the proposed flow rated of the interceptor being tested.

Findings - 77.4 gpm average (78.8 gpm max.)

3.4 Rating Test Procedure: **FOLLOWED**

See Table 1 of test report for Rating Testing.

3.4.1 Test Media: **FOLLOWED**

Certification tests were conducted with fresh, unused lard and water as defined and both within a temperature range from 150°F to 160°F.

3.4.2 Ratio of Lard to Water: **FOLLOWED**

The test lard was introduced into one compartment, during each incremental discharge, in the ratio of 1 lb. of lard for each 5 gallons of water in that compartment. Consequently, the proportion of lard to the total amount of water discharged from both sink compartments during each increment was 1 lb. for each 10 gallons respectively. The required amount of test lard, within the above temperature range, was weighed out and poured into the test compartment of the sink.

Findings- 15 lbs per increment used.

3.4.3 Test Increments: **FOLLOWED**

Each test increment consisted of the simultaneous discharge of water from both sink compartments and the lard from the test compartment.

During the first test increment, the lard was poured into compartment 1 while compartment 2 discharged clear water. During the second test increment the lard was poured into compartment 2 while the water in compartment 1 remained clear.

3.4.4 Flow Rates: **FOLLOWED**

The drainage period for each increment was gauged and timed on the basis of the flow from the compartment containing the clear water. The flow rate from the sink was computed and recorded for each increment. (See Table 1 of test report).

3.4.5 Efficiency Determinations (Minimum Grease Capacity): **NOT USED**

At the option of the manufacturer the efficiency determination was conducted at the interceptor's minimum grease capacity per Table 1 or at the interceptor's maximum grease capacity by determining the break down point.

3.4.6 Efficiency Determinations (Maximum Grease Capacity): **FOLLOWED**

The grease was removed from the skimming tank and the efficiency of the interceptor was computed at intervals of five increments or less until the average efficiency reached 93% or less and/or the incremental efficiency reached 85% or less (See Table 1 of test report).

3.4.6.1 Duration of the Test: **FOLLOWED**

The testing was continued until the average efficiency reached 85% or less and/or the incremental efficiency reached 75% or less.

3.4.6.2 Determination of Test Breakdown Grease Capacity: **FOLLOWED**

Maximum grease retention capacity was established at the increment preceding two successive increments in which either the average efficiency is less than 90% or the incremental efficiency is less than 80 %.

3.4.7 Efficiency Determinations (Minimum Grease Capacity): **NOT USED**

3.4.8 Performance Requirements for Certification: **COMPLIED**

The interceptor did conform with or exceeded the following requirements at the breakdown point:

(a) Had an average efficiency of 90% or more.

Findings – 91.2 %

(b) Had an incremental efficiency of 80% or more.

Findings – 80.9 %

(c) Had retained not less than 2 lbs of grease for each 1 gpm average flow rate as determined during the testing.

Findings – 287.23 lbs.

3.4.9 Rated Capacities: **COMPLIED**

Standard rating flow rate and grease retention capacities for grease interceptors were tested in accordance with the above test procedure and did conform with the requirement of ASME A112.14.3-2018.

Findings- Flow Rate 75 gpm

Grease Retention Capacity Rating - 150 lbs.

Actual Grease Retention Capacity - 287.23 lbs.

3.5 Skimming Procedure: **FOLLOWED**

The skimming procedure was initiated 5 minutes after the increment to be skimmed has discharged into the tank. The baffles were used alternately until the amounts of grease collected in the procedure are less than 1% by visual observation. Upon completion of the skimming procedure, water shall be drained from the bottom of the pail by means of a spigot. The remainder of the water was collected as describe in the procedure until only a few drops are observed. The lard is then weighed to the nearest ½ gram.

4 Labeling, Installation, and Maintenance

4.1 Labeling: **COMPLIED**

Products were labeled with the following information:

(a) Manufacturer's name - Schier Products (yes)

(b) Model number - GB-50 (75 gpm) (yes)

(c) Rated flow(s) - yes (yes)

(d) "Inlet" and "Outlet" - yes (yes)

(e) ASME A112.14.3 - yes (yes)

(f) Efficiency at the minimum grease capacity - yes (yes)

(g) If appropriate, flow control model number and or orifice size - NA

4.2 Installation Components: **COMPLIED**

The grease interceptor was provided with complete installation instructions, including but not limited to the following:

- (a) Flow control and/or vent requirements - yes (yes)
- (b) Separate trapping requirements - yes (yes)
- (c) Elevation and accessibility requirements - yes (yes)
- (d) Safety and health-related instructions - yes (yes)
- (e) Cleanout locations - yes (yes)
- (f) Instructions that show the clearances required for maintenance, cleaning, and hazard prevention - yes (yes)
- (g) Cautions against installation in any manner except as tested and rated- yes (yes)
- (h) Where a reducer is required on the outlet, it shall be eccentric with the flat on the bottom- NA

4.3 Maintenance and Cleaning Instructions: **COMPLIED**

Units were provided with complete maintenance instructions including but not limited to the following:

- (a) Maintenance Instructions - yes (yes)
- (b) Safety and health provisions - yes (yes)
- (c) Cleaning instructions - yes (yes)

Each grease interceptor was provided with service instructions and cleaning instructions which included a trouble-shooting guide as well as instructions for performing necessary servicing or for obtaining servicing.

See actual test data for ASME A112.14.3-2018 at the end of this report

CSA B481.0-12

4. Material Requirements

4.1 Mild Steel: **NOT APPLICABLE**

4.2 Stainless Steel: **NOT APPLICABLE**

4.3 Thermoplastics: **COMPLIED**

Thermoplastics used for the construction of the body of the grease interceptor shall comply with the material requirements specified in CSA B181.3 and shall have a minimum wall thickness of 0.156". (See Section 5.3)

Findings: Thickness- 0.375"

4.4 Fiberglass-reinforced plastic: **NOT APPLICABLE**

4.5 Concrete: **NOT APPLICABLE**

4.6 Covers: **COMPLIED**

Grease interceptor covers shall be made of metal, plastic, or concrete meeting the requirements of Clauses 4.1 to 4.5 and shall comply with the load requirements of Clause 6.1.

Findings: Covers are made from either Cast Iron or fiberglass/plastic composite.

4.7 Galvanic corrosion: **NOT APPLICABLE**
Where dissimilar metals are connected, materials shall be chosen such that galvanic corrosion is minimized.

4.8 Fasteners: **NOT APPLICABLE**

5. Construction Requirements

5.1 General: **COMPLIED**

Grease Interceptors Shall:

- X (a) be constructed to perform at the maximum flow rate for which they are designed.
- X (b) have a minimum FOG containment volume capacity of 25% of the flow rating of the interceptor.
- X (c) have a minimum solids containment capacity of 25% of the flow rating of the interceptor, if designed to contain solids.
- X (d) be constructed to withstand a hydrostatic water column of 36 mm H₂O (1.5 inches H₂O) above the cover seal of the interceptor applied for 15 min. as described in Clause 6.3.
- X (e) have inlet and outlet connection as follows:
 - (i) Threaded connections shall comply with ASME B1.20.1
 - (ii) Hub or hubless connections shall comply with the dimensional requirements of an applicable Standard for the material used.
 - (iii) Other connections shall comply with the National Plumbing Code of Canada or applicable provincial plumbing code requirements.
- X (f) have a means to prevent siphoning.
- NA (g) be protected against galvanic corrosion if dissimilar metallic materials are used in their construction.
- X (h) have a removable cover.
- X (i) have adequate access for:
 - (i) Proper cleaning and removal of FOG and sediments, allowing, at a minimum, access by a 50 mm (2in) diameter vacuum hose.
 - (ii) Personnel to reach removable internal components.
- X (j) be free of defects that could affect appearance, serviceability, containment, and performance.

5.2 Mild Steel: **NOT APPLICABLE**

5.3 Thermoplastics:

5.3.1 General requirements: **COMPLIED**

Thermoplastics shall have:

- (a) Have a tensile yield strength greater than 2320 psi - 3,224 psi
- (b) Be UV stabilized- Pass

5.3.2 Specific requirements: **COMPLIED**

The following requirements shall also apply to thermoplastics:

- (a) Blow-moulded shall have a specific gravity greater than 0.945 - NA
- (b) Injection moulded shall have a specific gravity greater than 0.935 - NA
- (c) Rotationally moulded thermoplastics shall have a specific gravity greater than 0.935 - 0.947
- (d) Butt-welded shall have
 - (i) A specific gravity greater than 0.945 - NA
 - (ii) A modulus of elasticity greater than 232,060 psi - NA
 - (iii) An Izod impact of 1.78 lbf/ft/in at 23 degrees C. - NA

5.4 Fiberglass-reinforced plastic: **NOT APPLICABLE**

5.5 Concrete Coatings and Linings: **NOT APPLICABLE**

5.6 Flow Control Devices: **COMPLIED**

Flow control devices, if required by the manufacturer, shall be integral to the system and shall be constructed in such a way that they cannot be readily removed, disassembled, or tampered with.

5.7 Load Design for Buried Grease Interceptors: **COMPLIED**

5.7.1 General Load Requirements:

Buried grease interceptors shall be designed to withstand all anticipated earth loads, including vertical and lateral soil loads and loads due to groundwater hydrostatic pressure, buoyancy, and live traffic. This requirement shall not apply to in-floor applications.

5.7.2 Minimum Load Requirements:

When the buried depth is

- X (a) 0.9 m (3 ft) or less, buried grease interceptors shall be designed for an earth load of at least 40 kPa (5.8 psi).
- ___ (b) greater than 0.9 m (3 ft) but less than 1.8 m (6 ft), buried grease interceptors shall be designed for an earth load of at least 90 kPa (13 psi).
- ___ (c) greater than 1.8 m (6 ft), grease interceptor installations shall be certified by a professional engineer.

6. Test Methods and Performance Requirements

6.1 Loading Test for Covers: **COMPLIED**

6.1.1 Load Classification:

For loading test purposes, grease interceptor covers shall be assigned a load classification in accordance with Table 1, based on the type of traffic to which the cover and top rim will be subjected to under typical conditions of use. A "no load" rating shall not require testing under Clause 6.1.

Findings:

Material	Load Classification	Test load at Failure	Maximum Safe Live Load
Composite	Medium Duty	8,400 psi	4,200 psi
Cast Iron	Special Duty	>20,000 psi	>10,000 psi

6.2 Corrosion Test (steel only): **NOT APPLICABLE**

6.3 Hydrostatic Pressure test: **COMPLIED**

The interceptor was filled with water through the inlet until the water reaches 1.4" above the cover seal. The water was allowed to stabilize for 5 minutes and the interceptor refilled to 1.4" if necessary. The water level was observed for 15 minutes for any reduction in the water level greater than 0.5".

Findings: There was no decrease in the water level.

7. Markings

7.1 Required Markings: **COMPLIED**

Grease interceptors shall be marked with:

- | | | |
|-----------|-----|---|
| <u>X</u> | (a) | the name, trademark, or other known mark of the manufacturer. |
| <u>X</u> | (b) | the applicable CSA Standard designation (i.e., CSA B481.1 or CSA B481.2) |
| <u>X</u> | (c) | the flow rating. |
| <u>X</u> | (d) | the removal efficiency, expressed as a percentage. |
| <u>NA</u> | (e) | the effluent grease concentration, expressed in mg/L when tested in accordance with CSA B481.2 |
| <u>X</u> | (f) | the grease containment capacity. |
| <u>X</u> | (g) | the access cover load classification, determined in accordance with Clause 6.1.1 |
| <u>X</u> | (h) | the nominal inlet size. |
| <u>NA</u> | (i) | a mark indicating whether an external flow control device is required. |
| <u>X</u> | (j) | the inlets and outlets of the grease interceptors shall be clearly identified to indicate the direction of flow |

7.2 Marking Quality: **COMPLIED**

Markings shall be permanent and legible.

CSA B481.1-12

4. **General Requirements: COMPLIED**

Grease interceptors shall comply with the requirements specified in CSA B481.0. (See above)

5. **Test Method: COMPLIED**

Grease interceptors shall be tested and rated in accordance with ASME A112.14.3 (See Individual test reports)

6. **Markings: COMPLIED**

Grease interceptors shall be marked in accordance with Clause 7 of CSA B481.0. (See above)

Picture



GB-50 (75 gpm)

TABLE 1 – Test Results per ASME A112.14.3-2018

“GB-50” (75 gpm) Grease Interceptor					INCREMENTAL				ACCUMULATED			
Test No.	Grease Sink	Water Sink	Drop Time (sec)	Flow Rate (GPM)	Lbs added	Lbs skimmed	Lbs retained	Efficiency (%)	Lbs added	Lbs skimmed	Lbs retained	Efficiency (%)
1	1	2	110	77.7	15	0.78	14.22	94.8	15	0.78	14.22	94.8
2	2	1	112	76.3	15	1.40	13.60	90.7	30	1.92	28.08	93.6
3	1	2	110	77.7	15	1.14	13.86	92.4	45	3.06	41.94	93.2
4	2	1	112	76.3	15	1.17	13.83	92.2	60	4.23	55.77	93.0
5	1	2	110	77.7	15	0.98	14.02	93.5	75	5.21	69.79	93.1
6	2	1	113	75.7	15	1.01	13.99	93.3	90	6.22	83.78	93.1
7	1	2	111	77.0	15	1.03	13.97	93.1	105	7.25	97.75	93.1
8	2	1	113	75.7	15	1.02	13.98	93.2	120	8.27	111.73	93.1
9	1	2	112	76.3	15	0.88	14.12	94.1	135	9.15	125.85	93.2
10	2	1	112	76.3	15	1.01	13.99	93.3	150	10.16	139.84	93.2
11	1	2	110	77.7	15	1.01	13.99	93.3	165	11.17	153.83	93.2
12	2	1	111	77.0	15	1.03	13.97	93.1	180	12.20	167.80	93.2
13	1	2	110	77.7	15	1.18	13.82	92.1	195	13.38	181.62	93.1
14	2	1	112	76.3	15	1.38	13.62	90.8	210	14.76	195.24	93.0
15	1	2	110	77.7	15	1.66	13.34	89.9	225	16.42	208.58	92.7
16	2	1	112	76.3	15	1.51	13.49	89.9	240	17.93	222.07	92.5
17	1	2	110	77.7	15	1.42	13.58	90.5	255	19.35	235.65	92.4
18	2	1	112	76.3	15	1.29	13.71	91.4	270	20.64	249.36	92.4
19	1	2	111	77.0	15	1.68	13.32	88.8	285	22.32	262.68	92.2
20	2	1	111	77.0	15	2.59	12.41	82.7	300	24.91	275.09	91.7
21	1	2	110	77.7	15	2.86	12.14	80.9	315	27.77	287.23	91.2
22	2	1	110	77.7	15	3.31	11.69	77.9	330	31.08	298.92	90.6
23	1	2	111	77.0	15	4.29	10.71	71.4	345	35.37	309.63	89.7

Performance Rating