

# Internal Use Only

## INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

### IAPMO GUIDE CRITERIA

#### FOR

### HYDROMECHANICAL GREASE INTERCEPTORS RATED OVER 100 GPM

#### IAPMO IGC 273-2009

## 1. PURPOSE

- 1.1** The purpose of this standard is to establish specifications regarding the construction of hydromechanical grease interceptors whose rated flows are greater than 100 gpm (380 L/m). Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding design, materials, and the installation; and to provide for identifying grease interceptors that conform to this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material or method of construction, provided any such alternate meets the intent and requirements of this document and changes are amended to this standard.

## 2. SCOPE

- 2.1** This standard includes requirements for determining and confirming flow rates for hydromechanical grease interceptors rated at flows greater than 100 gpm (380 L/m). Grease Interceptors shall be designed to remove grease from effluent and retain grease until accumulations can be removed by pumping the interceptor.
- 2.2** This standard applies to grease interceptors which are not covered under ASME A112.14.3 or PDI G101.

## 3. REFERENCED STANDARD

- 3.1** All standards referenced herein shall be the current edition of the standard.

ASME A112.14.3  
PDI G101

Grease Interceptors  
Testing and Rating Procedure for Type 1 Hydro Mechanical  
Grease Interceptors with Appendix of Installation and  
Maintenance

Copyright © 2009 by International Association of Plumbing and Mechanical Officials. All rights reserved. Printed in the United States of America. No part of this publication may be reproduced, stored in an electronic retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher.

IGC 273-2009 Hydro GI Rated Over 100 gpm

# Internal Use Only

## 4. DEFINITIONS

- 4.1 Hydromechanical Grease Interceptor.** A plumbing appurtenance or appliance that is installed in a sanitary drainage system to intercept nonpetroleum fats, oils and grease (FOG) from a wastewater discharge and is identified by flow rate, and separation and retention efficiency. The design incorporates air entrainment, hydromechanical separation, interior baffling, and / or barriers in combination or separately, and one of the following;
- a) External flow control with air intake
  - b) External flow control without air intake
  - c) Internal flow control with air intake
  - d) Internal flow control with air intake
  - e) Without External of external flow control

## 5. GENERAL REQUIREMENTS

- 5.1 Design.**
- 5.1.1** Hydromechanical grease interceptors shall be designed with applicable requirement in Section 2 of ASME A112.14.3.
- 5.2 Buried Units.** Grease interceptors and covers shall be designed for an earth load of not less than 24 kPa (500 psf) when the maximum coverage does not exceed 0.9 m (3'). Each interceptor and cover shall be structurally designed to withstand all anticipated earth or other loads and to be installed level and on a solid bed. Wood covers are prohibited.

## 6. TESTING REQUIREMENTS

- 6.1 Performance Test.** Testing shall be in accordance with Section 3 of ASME A112.14.3, with the following modifications to allow for the large flow rates:
- a) Additional sinks as specified in section 3.1.1 shall be added as required to meet the flow capacity of the interceptor being tested.
  - b) The skimming tank, section 3.1.2, shall be enlarged as required to retain at least one "drop" as specified in the testing.
  - c) The test shall be terminated, section 3.5.6, at the discretion of the manufacture when either the grease retained equals the rated capacity ( twice the flow rate in LBS of grease) or when the average efficiency reaches 85% or less, and /or the incremental efficiency reaches 75% or less.
  - d) The rated Capacity of the interceptor section 3.5.9 shall be in GPM and the grease retention capacity shall be twice the rated flow measured in LBS.