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# **Smacna Hvac Air Duct Leakage Test**

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pleased to welcome  
you to the post-service  
period of the book.

## **Smacna Hvac Air Duct Leakage**

Leakage class can be  
calculated using  
Equation 3 but needs  
to be specified if duct  
air leakage tests are  
required. Figure 5-1L  
from the 2012 SMACNA  
HVAC Air Duct Leakage  
Test Manual shows the  
allowable leakage as a  
function of Duct

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Leakage Classification  
and static pressure in  
the duct.

### **HVAC Duct Air Leakage 9-12-19 - SMACNA**

HVAC Duct Air  
Leakage. In a recent  
article which was  
published in RSES  
Journal, SMACNA's  
Senior Project Manager  
Pat Brooks, PE,  
discusses the history of  
duct air leak testing  
and describes proper

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techniques and practical applications when leak testing is performed in accordance with SMACNA standards. The “air tightness” of HVAC duct begins with the proper specification written by a design engineer.

**HVAC Duct Air Leakage - SMACNA**  
HVAC Air Duct Leakage  
This article discusses the history of duct air

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leak testing and describes proper techniques and practical application when leak testing is performed in accordance with the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) standards. Download the article here: HVAC Air Duct Leakage Article

**HVAC Air Duct**  
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**Leakage - SMACNA**

SMACNA has published a procedure for leakage testing of so-called medium and high pressure ductwork since January 1965. It appeared in Chapter 10 of the high velocity (later high pressure) construction standards and in Chapter 8 of the Balancing and Adjustment of Air Distribution Systems Manual of 1967 vintage.

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**HVAC AIR DUCT  
LEAKAGE TEST  
MANUAL**

SMACNA first published a procedure for leakage testing of so-called medium and high pressure ductwork since January 1965. It appeared in Chapter 10 of the high velocity (later high pressure) construction standards and in Chapter 8 of the "Balancing and Adjustment of Air Distribution Systems

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Manual" of 1967  
vintage.

## **HVAC AIR DUCT LEAKAGE TEST MANUAL**

This American National Standard,  
ANSI/SMACNA  
016-2012, covers  
revised leakage criteria  
and builds on the  
proven methods for  
testing ductwork for air  
leaks from the first  
edition. Contains  
updates to the

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expected leakage rates for ductwork constructed to the SMACNA HVAC Duct Construction Standards—Metal & Flexible, duct leakage test procedures, recommendations on use of leakage testing, types of test apparatus and test setup and sample leakage analysis. Includes a new educational chapter ...

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**HVAC Air Duct  
Leakage Test  
Manual - smacna.org**

Ductwork that is designed to operate at static pressures in excess of 3 inches Water Column (0.75 kPa) shall be leak-tested according to the SMACNA HVAC Air Duct Leakage Test Manual. Representative sections totaling no less than 25 percent of the total installed duct area for the designated

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pressure class shall be tested.

**Technical Resources  
Bulletin -  
smacna.org**

McGill AirFlow often gets specifications stating that the leakage class for rectangular and round ductwork will be in accordance with the SMACNA Table 4-1 for a 3-inch water gauge (wg) supply duct system, thus allowing

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the rectangular duct leakage class to be 12 and the round and flat oval duct leakage class to be 6.

## **What is an Allowable Duct System Leakage Specification?**

Quote from  
HVAC AIR DUCT  
LEAKAGE TEST  
HVAC  
AIR DUCT LEAKAGE  
TEST  
MANUAL(SMACNA):  
"WHERE NO SPECIFIC

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DUCT PRESSURE  
CLASS DESIGNATIONS  
ARE PROVIDED  
BY CLASS  
DESIGNATIONS ARE  
PROVIDED BY THE  
DESIGNER THE 1"  
WATER GAGE  
PRESSURE CLASS IS  
THE BASIS OF  
COMPLIANCE... ©  
2011, TSI Incorporated  
Prior to Field  
Testing Prior to Field  
Testing

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**Testing - NEBB**

SMACNAs HVAC Air Duct Leakage Test Manual provides leakage rates based on testing ducts constructed to the SMACNA HVAC-DCS Comments/Discussion Does the SMACNA test work on equipment or casings? - SMACNA has not tested those components to see if the method of the predicted leakage rates apply

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**HVAC Air Duct  
Leakage | Duct  
(Flow) | Hvac**

HVAC Air Duct Leakage  
Test Manual Order No.  
1972 2nd edition,  
2012, 122 pages: This  
American National  
Standard,  
ANSI/SMACNA  
016-2012, covers  
revised leakage criteria  
and builds on the  
proven methods for  
testing ductwork for air  
leaks from the first

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edition.

**HVAC Air Duct  
Leakage Test  
Manual | SMACNA  
DUCT LEAKAGE CLASS**  
\*Consult the HVAC–Air  
Duct Leakage Test  
Manual and select  
appropriate allowable  
leakage. If field leak  
tests are required, appr  
opriate test pressure  
and clear scope of  
testing must be  
specified.

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**HVAC DUCT  
CONSTRUCTION  
STANDARDS**

Hey Flange, as per SMACNA, that 2.5X is a real mistake unless the duct was built for that pressure class. 13" put it beyond the 10 wc of regular duct standard and into the industrial manual. Lots of luck with that! Morans that come up with arbitrary leakage vales as a % of fan airflow also came up with that

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requirement as well  
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**Large Duct leakage**

**Question - HVAC-**

**Talk: Heating, Air ...**

- HVAC Air System Leakage is the combination of duct, equipment and accessory leakage.

**HVAC System Air**

**Leakage -**

**utahashrae.org**

Equipment connected to duct systems shall be designed to limit discharge air

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temperature to not greater than 250°F (121°C).; Factory-made ducts shall be listed and labeled in accordance with UL 181 and installed in accordance with the manufacturer's instructions.; Fibrous glass duct construction shall conform to the SMACNA Fibrous Glass Duct Construction Standards or NAIMA Fibrous Glass Duct ...

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**Chapter 16: Duct  
Systems, Residential  
Code 2015 of New ...**

Adjusting. Adjusting is the final setting of balancing devices such as dampers and valves, adjusting fan speeds and pump impeller sizes, in addition to automatic control devices such as thermostats and pressure controllers to achieve maximum specified system performance and

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efficiency during  
normal operation.

**Massive Testing &  
Balancing - HVAC  
Testing, Adjusting  
and ...**

607.4.1 Duct Air  
Leakage Testing  
Ductwork that is  
designed to operate at  
static pressures  
exceeding 3 inches  
water column and all  
ductwork located  
outdoors shall be leak-  
tested in accordance

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Test  
with the SMACNA HVAC  
Air Duct Leakage Test  
Manual.

**HVAC Air Duct  
Leakage -  
ashraesn.com**

HVAC Air Duct Leakage  
Test Manual (RS-35) 10  
CFR 434.403.2.9.3  
Sheet Metal and Air  
Conditioning  
Contractors' National  
Association (SMACNA)

**By Authority Of -  
Public.Resource.Org**

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All air duct materials shall be suitable for continuous exposure to the temperature and humidity conditions of the environmental air in the air duct. Air ducts shall be constructed of any of the following materials: Iron, steel, aluminum, copper, concrete, masonry or clay tile. Class 0 or Class 1 rigid or flexible air ducts tested in accordance ...

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